

ISO 20022

ATM Urgent Maintenance 2017

## Message Definition Report - Part 2

Approved by the ISO 20022 Cards SEG on 22 November 2017

This document provides details of the Message Definitions for ATM Urgent Maintenance 2017.

30 November 2017

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# 1 Message Set Overview

## Introduction

Messages that support any card related Automated Teller Machine (ATM) transactions, card related terminal management services and services between an ATM equipment and an ATM acquirer. These services include cash withdrawals, kiosk functions and card account management transactions. It includes the new candidate versions of the MessageDefinitions that have been impacted by the unscheduled maintenance (CR #0533) for review by the Cards Standards Evaluation Group.

## 1.1 List of MessageDefinitions

The following table lists all MessageDefinitions described in this book.

MessageDefinition	Definition
caam.001.001.03 ATMDeviceReportV03	The ATMDeviceReport message is sent to an acquirer by an ATM, or forwarded by an agent, to report: <ul style="list-style-type: none"> <li>- The result of maintenance commands performed by the ATM,</li> <li>- The components of the ATM,</li> <li>- The status of the ATM components</li> </ul>
caam.002.001.03 ATMDeviceControlV03	The ATMDeviceControl message is sent by a maintenance host to an ATM in response to an ATMDeviceReport message. The message contains a sequence of maintenance commands the ATM must perform.
caam.003.001.03 ATMKeyDownloadRequestV03	The ATMKeyDownloadRequest message is sent by an ATM to an ATM manager to initiate the download of one or several cryptographic keys.
caam.004.001.03 ATMKeyDownloadResponseV03	The ATMKeyDownloadResponse message is sent from an acquirer to an ATM in response to an ATMKeyDownloadRequest message, to download of one or several cryptographic keys.
caam.005.001.02 ATMDiagnosticRequestV02	The ATMDiagnosticRequest message is sent from an ATM to an acquirer to verify the availability of the acquirer. The acquirer will also validate that this ATM is a valid ATM for its particular network.
caam.006.001.02 ATMDiagnosticResponseV02	The ATMDiagnosticResponse message is sent by an acquirer to an ATM in response to an ATMDiagnosticRequest message ensuring the availability and the validity of the parameters.
caam.007.001.01 HostToATMRequestV01	The HostToATMRequest message is sent by a host to an ATM to request the ATM to contact a host by sending of a maintenance messages.
caam.008.001.01 HostToATMAcknowledgementV01	The HostToATMAcknowledgement message is sent by an ATM to a host to acknowledge the receipt of a HostToATMRequest message.
caam.009.001.02 ATMReconciliationAdviceV02	The ATMReconciliationAdvice message is sent by an ATM to an acquirer or its agent to send all the counters of the ATM. It can be sent by an operator function or as a response of a command sent by an agent or a server.

MessageDefinition	Definition
caam.010.001.02 ATMReconciliationAcknowledgementV02	The ATMReconciliationAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMReconciliationAdvice message.
caam.011.001.01 ATMExceptionAdviceV01	The ATMExceptionAdvice message is sent by an ATM to an acquirer or its agent to inform of that an exception occurred outside a service.
caam.012.001.01 ATMExceptionAcknowledgementV01	The ATMExceptionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMExceptionAdvice message.
catp.001.001.02 ATMWithdrawalRequestV02	The ATMWithdrawalRequest message is sent by an ATM to an acquirer or its agent to request the approval of a withdrawal transaction at an ATM.
catp.002.001.02 ATMWithdrawalResponseV02	The ATMWithdrawalResponse message is sent by an acquirer or its agent to an ATM in response to the ATMWithdrawalRequest to inform the ATM of the approval or decline of the withdrawal transaction.
catp.003.001.02 ATMWithdrawalCompletionAdviceV02	The ATMWithdrawalCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a withdrawal transaction at an ATM.  If the ATM is configured to only send negative completion, a generic completion message should be used instead of ATMCompletionAdvice.
catp.004.001.02 ATMWithdrawalCompletionAcknowledgementV02	The ATMWithdrawalCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMWithdrawalCompletionAdvice message.
catp.005.001.02 ATMRejectV02	The ATMReject message is sent by any entity to reject a received message.
catp.006.001.02 ATMInquiryRequestV02	The ATMInquiryRequest message is sent by an ATM to an ATM manager to request information about a customer (for example card, account).
catp.007.001.02 ATMInquiryResponseV02	The ATMInquiryResponse message is sent by an ATM manager or its agent to the ATM to provide the information and the outcome of the verifications requested in the ATMInquiryRequest.
catp.008.001.02 ATMCompletionAdviceV02	The ATMCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a transaction performed on the ATM.
catp.009.001.02 ATMCompletionAcknowledgementV02	The ATMCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMCompletionAdvice message.
catp.010.001.02 ATMPINManagementRequestV02	The ATMPINManagementRequest message is sent by an ATM to an ATM manager to request an operation on the cardholder PIN.
catp.011.001.02 ATMPINManagementResponseV02	The ATMPINManagementResponse message is sent by an ATM manager or its agent to the ATM to provide the information and the outcome of the cardholder PIN operation requested in the ATMPINManagementRequest.

MessageDefinition	Definition
catp.012.001.01 ATMDepositRequestV01	The ATMDepositRequest message is sent by an ATM to an acquirer or its agent to request the approval of a deposit transaction at an ATM, before or after deposit media inside the ATM.
catp.013.001.01 ATMDepositResponseV01	The ATMDepositResponse message is sent by an ATM manager or its agent to inform the ATM of the approval or decline of the deposit transaction.
catp.014.001.01 ATMDepositCompletionAdviceV01	<p>The ATMDepositCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a deposit transaction at an ATM.</p> <p>If the ATM is configured to only send negative completion, a generic completion message should be used instead of ATMCompletionAdvice.</p> <p>This message can be used each time a bundle is put in the ATM safe and/or at the end of a multi bundle deposit.</p>
catp.015.001.01 ATMDepositCompletionAcknowledgementV01	The ATMDepositCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMDepositCompletionAdvice message.
catp.016.001.01 ATMTransferRequestV01	The ATMTransferRequest message is sent by an ATM to an ATM manager to request the approval of a fund transfer at the ATM.
catp.017.001.01 ATMTransferResponseV01	The ATMTransferResponse message is sent by an acquirer or its agent to inform the ATM of the approval or decline of the transfer transaction.



## **2 caam.001.001.03 ATMDDeviceReportV03**

### **2.1 MessageDefinition Functionality**

The ATMDDeviceReport message is sent to an acquirer by an ATM, or forwarded by an agent, to report:

- The result of maintenance commands performed by the ATM,
- The components of the ATM,
- The status of the ATM components

Outline

The ATMDDeviceReportV03 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDDeviceReport  
Encrypted body of the message.
- C. ATMDDeviceReport  
Information related to the status report from an ATM device.
- D. SecurityTrailer  
Trailer of the message containing a MAC or a digital signature.

## 2.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <ATMDvcRpt>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			12
	<b>MessageFunction</b> <MsgFctn>	[1..1]			13
	<b>Function</b> <Fctn>	[1..1]	CodeSet		13
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		15
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		15
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		15
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		15
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		15
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		15
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		16
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		16
	<b>Traceability</b> <Tracblt>	[0..*]			16
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		16
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		16
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		17
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		17
	<b>ProtectedATMDeviceReport</b> <PrctcdATMDvcRpt>	[0..1]	±		17
	<b>ATMDeviceReport</b> <ATMDvcRpt>	[0..1]			17
	<b>Environment</b> <Envt>	[1..1]			19
	<b>Acquirer</b> <Acqrr>	[0..1]	±		19
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		20
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		20
	<b>ATM</b> <ATM>	[1..1]	±		20
	<b>ATMGlobalStatus</b> <ATMGblSts>	[1..1]			22
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		22
	<b>DemandedStatus</b> <DmnddSts>	[0..1]	CodeSet		22
	<b>CommandResult</b> <CmdRslt>	[0..*]			22
	<b>Type</b> <Tp>	[1..1]	CodeSet		23
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		24

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		24
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		24
	<b>Result</b> <Rslt>	[1..1]	CodeSet		24
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		25
	<b>CommandContext</b> <CmdCntxt>	[0..1]			25
	<b>Type</b> <Tp>	[1..1]	CodeSet		25
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		26
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[0..1]			26
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		28
	<b>SecuritySchemeCapabilities</b> <SctySchmeCpblties>	[0..*]	CodeSet		28
	<b>SecurityDevice</b> <SctyDvc>	[1..1]			29
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]			29
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		30
	<b>Model</b> <Mdl>	[0..1]	Text		30
	<b>Version</b> <Vrsn>	[0..1]	Text		30
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		30
	<b>FirmwareProvider</b> <FrmwrPrvdr>	[0..1]	Text		30
	<b>FirmwareIdentification</b> <Frmwrld>	[0..1]	Text		30
	<b>FirmwareVersion</b> <FrmwrVrsn>	[0..1]	Text		31
	<b>CurrentConfiguration</b> <CurCfgtn>	[1..1]	±		31
	<b>SupportedConfiguration</b> <SpprtdCfgtn>	[0..1]	±		31
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		31
	<b>Incident</b> <Incdnt>	[0..1]	CodeSet		32
	<b>BindingState</b> <BndgStat>	[0..1]	CodeSet		32
	<b>Key</b> <Key>	[0..*]			32
	<b>Name</b> <Nm>	[0..1]	Text		33
	<b>Identification</b> <Id>	[0..1]	Text		33
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		33
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		33
	<b>Version</b> <Vrsn>	[0..1]	Text		33
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		34

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		34
	<b>Function</b> <Fctn>	[1..*]	CodeSet		34
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		35
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		35
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		35
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		35
	<b>FailureReason</b> <FailrRsn>	[0..1]	CodeSet		36
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		36
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			36
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		36
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		37
	<b>SignedData</b> <SgndData>	[0..1]	±		37

## 2.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 2.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 2.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			13
	<b>Function</b> <Fctn>	[1..1]	CodeSet		13
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		15
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		15
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		15
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		15
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		15
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		15
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		16
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		16
	<b>Traceability</b> <Tracblt>	[0..*]			16
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		16
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		16
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		17
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		17

#### 2.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		13
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		15
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		15

##### 2.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 2.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 2.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 2.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 2.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 2.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 2.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 2.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 2.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 2.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		16
	SequenceNumber <SeqNb>	[0..1]	Text		16
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		17
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		17

##### 2.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 2.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]



*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 2.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 2.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 2.4.2 ProtectedATMDDeviceReport <PrtctdATMDvcRpt>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDDeviceReport <PrtctdATMDvcRpt>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 2.4.3 ATMDDeviceReport <ATMDvcRpt>

*Presence:* [0..1]

*Definition:* Information related to the status report from an ATM device.

**ATMDeviceReport <ATMDvcRpt>** contains the following **ATMDeviceReport3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			19
	<b>Acquirer</b> <Acqrr>	[0..1]	±		19
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		20
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		20
	<b>ATM</b> <ATM>	[1..1]	±		20
	<b>ATMGlobalStatus</b> <ATMGblSts>	[1..1]			22
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		22
	<b>DemandedStatus</b> <DmnddSts>	[0..1]	CodeSet		22
	<b>CommandResult</b> <CmdRslt>	[0..*]			22
	<b>Type</b> <Tp>	[1..1]	CodeSet		23
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		24
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		24
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		24
	<b>Result</b> <Rslt>	[1..1]	CodeSet		24
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		25
	<b>CommandContext</b> <CmdCntxt>	[0..1]			25
	<b>Type</b> <Tp>	[1..1]	CodeSet		25
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		26
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[0..1]			26
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		28
	<b>SecuritySchemeCapabilities</b> <SctySchmeCpblties>	[0..*]	CodeSet		28
	<b>SecurityDevice</b> <SctyDvc>	[1..1]			29
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]			29
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		30
	<b>Model</b> <Mdl>	[0..1]	Text		30
	<b>Version</b> <Vrsn>	[0..1]	Text		30
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		30
	<b>FirmwareProvider</b> <FrmwrPrvdr>	[0..1]	Text		30
	<b>FirmwareIdentification</b> <Frmwrld>	[0..1]	Text		30
	<b>FirmwareVersion</b> <FrmwrVrsn>	[0..1]	Text		31
	<b>CurrentConfiguration</b> <CurCfgtn>	[1..1]	±		31

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SupportedConfiguration</b> <SpprtdCfgtn>	[0..1]	±		31
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		31
	<b>Incident</b> <Incdnt>	[0..1]	CodeSet		32
	<b>BindingState</b> <BndgStat>	[0..1]	CodeSet		32
	<b>Key</b> <Key>	[0..*]			32
	<b>Name</b> <Nm>	[0..1]	Text		33
	<b>Identification</b> <Id>	[0..1]	Text		33
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		33
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		33
	<b>Version</b> <Vrsn>	[0..1]	Text		33
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		34
	<b>Type</b> <Tp>	[1..1]	CodeSet		34
	<b>Function</b> <Fctn>	[1..*]	CodeSet		34
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		35
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		35
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		35
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		35
	<b>FailureReason</b> <FailrRsn>	[0..1]	CodeSet		36
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		36

### 2.4.3.1 Environment <Envvt>

*Presence:* [1..1]

*Definition:* Environment of the transaction.

**Environment <Envvt>** contains the following **ATMEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		19
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		20
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		20
	<b>ATM</b> <ATM>	[1..1]	±		20

#### 2.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 2.4.3.1.2 ATMMManagerIdentification <ATMMgrId>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 2.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine5" on page 1213 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1215
	AdditionalIdentification <AddtlId>	[0..1]	Text		1215
	SequenceNumber <SeqNb>	[0..1]	Text		1215
	BaseCurrency <BaseCcy>	[1..1]	CodeSet	C1	1215
	Location <Lctn>	[0..1]			1215
	AddressLine <AdrLine>	[0..2]	Text		1216
	StreetName <StrtNm>	[0..1]	Text		1216
	BuildingNumber <BldgNb>	[0..1]	Text		1216
	PostCode <PstCd>	[0..1]	Text		1216
	TownName <TwnNm>	[1..1]	Text		1217
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1217
	Country <Ctry>	[1..1]	CodeSet	C1	1217
	GeoLocation <GLctn>	[0..1]			1217
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1217
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218
Or}	UTMCoordinates <UTMCordints>	[1..1]			1218
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1219
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1219
	Equipment <Eqpmnt>	[0..1]			1219
	Manufacturer <Manfctr>	[0..1]	Text		1219
	Model <Mdl>	[0..1]	Text		1220
	SerialNumber <SrlNb>	[0..1]	Text		1220
	ApplicationProvider <AppIPrvdr>	[0..1]	Text		1220
	ApplicationName <AppINm>	[0..1]	Text		1220
	ApplicationVersion <AppIVrsn>	[0..1]	Text		1220
	ApprovalNumber <ApprvINb>	[0..1]	Text		1220
	ConfigurationParameter <CfgrtnParam>	[0..*]			1220
	Type <Tp>	[1..1]	CodeSet		1220

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[1..1]	Text		1221
	OutOfServiceDevice <OutOfSvcDvc>	[0..*]	CodeSet		1221
	MessageProtection <MsgPrtc>	[0..1]	CodeSet		1222

### 2.4.3.2 ATMGlobalStatus <ATMGblSts>

*Presence:* [1..1]

*Definition:* Global status of the ATM.

**ATMGlobalStatus <ATMGblSts>** contains the following **ATMStatus1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		22
	<b>DemandedStatus</b> <DmnddSts>	[0..1]	CodeSet		22

#### 2.4.3.2.1 CurrentStatus <CurSts>

*Presence:* [1..1]

*Definition:* Actual status of the ATM.

*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

#### 2.4.3.2.2 DemandedStatus <DmnddSts>

*Presence:* [0..1]

*Definition:* Present if the status required by the ATM manager is different from the current status.

*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

### 2.4.3.3 CommandResult <CmdRslt>

*Presence:* [0..\*]

*Definition:* Result of a maintenance command performed by the ATM.

**CommandResult <CmdRslt>** contains the following **ATMCommand11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		23
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		24
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		24
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		24
	<b>Result</b> <Rslt>	[1..1]	CodeSet		24
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		25

#### 2.4.3.3.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the

CodeName	Name	Definition
		TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

#### 2.4.3.3.2 RequiredDateTime <ReqrdDtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command has been requested to be performed.

*Datatype:* ["ISODatetime" on page 1312](#)

#### 2.4.3.3.3 ProcessedDateTime <PrcdDtTm>

*Presence:* [1..1]

*Definition:* Date time on which the command has been performed.

*Datatype:* ["ISODatetime" on page 1312](#)

#### 2.4.3.3.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see ["ATMCommandIdentification1" on page 1169](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <PrCr>	[0..1]	Text		1170

#### 2.4.3.3.5 Result <RsIt>

*Presence:* [1..1]

*Definition:* Final result of the processed command at the ATM.

*Datatype:* ["TerminalManagementActionResult2Code" on page 1310](#)

CodeName	Name	Definition
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
HRDW	Hardware	Hardware error.
NSUP	NotSupported	Action is not supported.
SECR	Security	Security error.
SUCC	Success	Action was successfully performed.
SYNE	SyntaxError	Data transferred has a wrong syntax.



CodeName	Name	Definition
TIMO	Timeout	Timeout expired during the data transfer.
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.

#### 2.4.3.3.6 AdditionalErrorInformation <AddtlErrInf>

*Presence:* [0..1]

*Definition:* Additional information on the failure to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 2.4.3.4 CommandContext <CmdCntxt>

*Presence:* [0..1]

*Definition:* Maintenance command which has requested the device report.

**CommandContext <CmdCntxt>** contains the following **ATMCommand12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type &lt;Tp&gt;</b>	[1..1]	CodeSet		25
	<b>CommandIdentification &lt;CmdId&gt;</b>	[0..1]	±		26

##### 2.4.3.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.

CodeName	Name	Definition
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

#### 2.4.3.4.2 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 2.4.3.5 ATMSecurityContext <ATMSctyCntxt>

*Presence:* [0..1]

*Definition:* Information related to security commands.

**ATMSecurityContext** <ATMSctyCntxt> contains the following **ATMSecurityContext5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		28
	<b>SecuritySchemeCapabilities</b> <SctySchmeCpblties>	[0..*]	CodeSet		28
	<b>SecurityDevice</b> <SctyDvc>	[1..1]			29
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]			29
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		30
	<b>Model</b> <Mdl>	[0..1]	Text		30
	<b>Version</b> <Vrsn>	[0..1]	Text		30
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		30
	<b>FirmwareProvider</b> <FrmwrPrvdr>	[0..1]	Text		30
	<b>FirmwareIdentification</b> <Frmwrld>	[0..1]	Text		30
	<b>FirmwareVersion</b> <FrmwrVrsn>	[0..1]	Text		31
	<b>CurrentConfiguration</b> <CurCfgtn>	[1..1]	±		31
	<b>SupportedConfiguration</b> <SpprtdCfgtn>	[0..1]	±		31
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		31
	<b>Incident</b> <Incdnt>	[0..1]	CodeSet		32
	<b>BindingState</b> <BndgStat>	[0..1]	CodeSet		32
	<b>Key</b> <Key>	[0..*]			32
	<b>Name</b> <Nm>	[0..1]	Text		33
	<b>Identification</b> <Id>	[0..1]	Text		33
	<b>SecurityDomainIdentification</b> <SctyDomnld>	[0..1]	Text		33
	<b>AdditionalIdentification</b> <Addtlld>	[0..1]	Binary		33
	<b>Version</b> <Vrsn>	[0..1]	Text		33
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		34
	<b>Type</b> <Tp>	[1..1]	CodeSet		34
	<b>Function</b> <Fctn>	[1..*]	CodeSet		34
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		35
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		35
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		35
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		35
	<b>FailureReason</b> <FailrRsn>	[0..1]	CodeSet		36
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		36

**2.4.3.5.1 CurrentSecurityScheme <CurSctySchme>***Presence:* [1..1]*Definition:* Key exchange security scheme in activation on the ATM for the host manager.*Datatype:* "ATMSecurityScheme3Code" on page 1283

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
NONE	Unitialised	No key exchange performed, no security scheme defined.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

**2.4.3.5.2 SecuritySchemeCapabilities <SctySchmeCpblties>***Presence:* [0..\*]*Definition:* Key exchange security schemes implemented in the hardware security module of the ATM.*Datatype:* "ATMSecurityScheme4Code" on page 1283

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.

CodeName	Name	Definition
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

### 2.4.3.5.3 SecurityDevice <SctyDvc>

*Presence:* [1..1]

*Definition:* Hardware security module of the ATM.

**SecurityDevice <SctyDvc>** contains the following **ATMSecurityDevice2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]			29
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		30
	<b>Model</b> <Mdl>	[0..1]	Text		30
	<b>Version</b> <Vrsn>	[0..1]	Text		30
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		30
	<b>FirmwareProvider</b> <FrmwrPrvdr>	[0..1]	Text		30
	<b>FirmwareIdentification</b> <Frmwrld>	[0..1]	Text		30
	<b>FirmwareVersion</b> <FrmwrVrsn>	[0..1]	Text		31
	<b>CurrentConfiguration</b> <CurCfgtn>	[1..1]	±		31
	<b>SupportedConfiguration</b> <SpprtdCfgtn>	[0..1]	±		31
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		31
	<b>Incident</b> <Incdnt>	[0..1]	CodeSet		32
	<b>BindingState</b> <BndgStat>	[0..1]	CodeSet		32

#### 2.4.3.5.3.1 DeviceProperty <DvcPrpty>

*Presence:* [0..1]

*Definition:* Hardware security module information, so called EPP for Encrypted PIN Pad.

**DeviceProperty <DvcPrprty>** contains the following **ATMEquipment2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		30
	<b>Model</b> <Mdl>	[0..1]	Text		30
	<b>Version</b> <Vrsn>	[0..1]	Text		30
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		30
	<b>FirmwareProvider</b> <FrmwrPrvdr>	[0..1]	Text		30
	<b>FirmwareIdentification</b> <FrmwrlId>	[0..1]	Text		30
	<b>FirmwareVersion</b> <FrmwrVrsn>	[0..1]	Text		31

#### 2.4.3.5.3.1.1 Manufacturer <Manfctr>

*Presence:* [0..1]

*Definition:* ATM Manufacturer.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.2 Model <Mdl>

*Presence:* [0..1]

*Definition:* Model of ATM.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.3 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the device model.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.4 SerialNumber <SrINb>

*Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.5 FirmwareProvider <FrmwrPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the firmware.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.6 FirmwareIdentification <FrmwrlId>

*Presence:* [0..1]

*Definition:* Identification of the firmware.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.1.7 FirmwareVersion <FrmwrVrsn>

*Presence:* [0..1]

*Definition:* Version of the firmware.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.3.2 CurrentConfiguration <CurCfgr>

*Presence:* [1..1]

*Definition:* Configuration parameters in use by the security device.

**CurrentConfiguration <CurCfgr>** contains the following elements (see "ATMSecurityConfiguration1" on page 1200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrctn>	[0..*]	CodeSet		1203

#### 2.4.3.5.3.3 SupportedConfiguration <SpprtdCfgr>

*Presence:* [0..1]

*Definition:* Configuration parameters supported by the security device.

**SupportedConfiguration <SpprtdCfgr>** contains the following elements (see "ATMSecurityConfiguration1" on page 1200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrctn>	[0..*]	CodeSet		1203

#### 2.4.3.5.3.4 CurrentStatus <CurSts>

*Presence:* [1..1]

*Definition:* Current status of the security device.

*Datatype:* "ATMStatus2Code" on page 1288

CodeName	Name	Definition
OPER	InOperation	Component is activated and in operation.
OUTS	OutOfService	ATM out of service.

#### 2.4.3.5.3.5 Incident <IncDnt>

*Presence:* [0..1]

*Definition:* Incident occurring on the device.

*Datatype:* "FailureReason5Code" on page 1296

CodeName	Name	Definition
SECR	Security	General security error.
HRDW	Hardware	Hardware error on the device.

#### 2.4.3.5.3.6 BindingState <BndgStat>

*Presence:* [0..1]

*Definition:* Binding state of the security device.

*Datatype:* "TR34Status1Code" on page 1311

CodeName	Name	Definition
BUND	Bound	The device is bound.
UBND	Unbound	The device is unbound.

#### 2.4.3.5.4 Key <Key>

*Presence:* [0..\*]

*Definition:* Cryptographic keys stored in the hardware security module of the ATM.



**Key <Key>** contains the following **CryptographicKey11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		33
	<b>Identification</b> <Id>	[0..1]	Text		33
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		33
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		33
	<b>Version</b> <Vrsn>	[0..1]	Text		33
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		34
	<b>Type</b> <Tp>	[1..1]	CodeSet		34
	<b>Function</b> <Fctn>	[1..*]	CodeSet		34
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		35
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		35
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		35
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		35
	<b>FailureReason</b> <FailRsn>	[0..1]	CodeSet		36

#### 2.4.3.5.4.1 Name <Nm>

*Presence:* [0..1]

*Definition:* Name or label of the key.

*Datatype:* "Max140Text" on page 1316

#### 2.4.3.5.4.2 Identification <Id>

*Presence:* [0..1]

*Definition:* Name of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

#### 2.4.3.5.4.3 SecurityDomainIdentification <SctyDomnId>

*Presence:* [0..1]

*Definition:* Identification of the security domain.

*Datatype:* "Max35Text" on page 1317

#### 2.4.3.5.4.4 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* Additional identification of the key, for instance to derive the key.

*Datatype:* "Max35Binary" on page 1270

#### 2.4.3.5.4.5 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the cryptographic key.

*Datatype:* "Max256Text" on page 1316

#### 2.4.3.5.4.6 SequenceCounter <SeqCntr>

*Presence:* [0..1]

*Definition:* Sequence counter of the cryptographic key.

*Datatype:* "Number" on page 1314

#### 2.4.3.5.4.7 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of algorithm used by the cryptographic key.

*Datatype:* "CryptographicKeyType3Code" on page 1294

CodeName	Name	Definition
AES2	AES128	AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE3	DES112	Data encryption standard key of 112 bits (without the parity bits).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) key, as specified in ANSI X9.24-2009 Annex A.
AES9	AES192	AES (Advanced Encryption Standard) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
AES5	AES256	AES (Advanced Encryption Standard) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE4	DES168	Data encryption standard key of 168 bits (without the parity bits).

#### 2.4.3.5.4.8 Function <Fctn>

*Presence:* [1..\*]

*Definition:* Allowed usage of the key.

*Datatype:* "KeyUsage1Code" on page 1299

CodeName	Name	Definition
ENCR	Encryption	Key may encrypt.
DCPT	Decryption	Key may decrypt.
DENC	DataEncryption	Key may encrypt data.

CodeName	Name	Definition
DDEC	DataDecryption	Key may decrypt data.
TRNI	TranslateInput	Key may encrypt information before translation.
TRNX	TranslateOutput	Key may encrypt information after translation.
MACG	MessageAuthenticationCodeGeneration	Key may generate message authentication codes (MAC).
MACV	MessageAuthenticationCodeVerification	Key may verify message authentication codes (MAC).
SIGG	SignatureGeneration	Key may generate digital signatures.
SUGV	SignatureVerification	Key may verify digital signatures.
PINE	PINEncryption	Key may encrypt personal identification numbers (PIN).
PIND	PINDecryption	Key may decrypt personal identification numbers (PIN).
PINV	PINVerification	Key may verify personal identification numbers (PIN).
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

#### 2.4.3.5.4.9 ActivationDate <ActvtnDt>

*Presence:* [0..1]

*Definition:* Date and time on which the key must be activated.

*Datatype:* "ISODatetime" on page 1312

#### 2.4.3.5.4.10 DeactivationDate <DeactvtnDt>

*Presence:* [0..1]

*Definition:* Date and time on which the key must be deactivated.

*Datatype:* "ISODatetime" on page 1312

#### 2.4.3.5.4.11 KeyCheckValue <KeyChckVal>

*Presence:* [0..1]

*Definition:* Value for checking a cryptographic key.

*Datatype:* "Max35Binary" on page 1270

#### 2.4.3.5.4.12 CurrentStatus <CurSts>

*Presence:* [1..1]

*Definition:* Current status of the key.

*Datatype:* "ATMStatus3Code" on page 1288

CodeName	Name	Definition
OPER	InOperation	Component is activated and in operation.
STOP	Stopped	Component has been stopped.
WACT	WaitingActivation	Component has been loaded, but not yet activated.

#### 2.4.3.5.4.13 FailureReason <FailRsn>

*Presence:* [0..1]

*Definition:* Reason for which the key has been stopped.

*Datatype:* "FailureReason6Code" on page 1296

CodeName	Name	Definition
CMPR	Compromised	Key is compromised.
EXPR	Expired	Key has expired.
KCVE	InvalidKCV	Key check value is incorrect.
KLOD	KeyLoadError	Error during the key download in the security device.

#### 2.4.3.5.5 HostChallenge <HstChllng>

*Presence:* [0..1]

*Definition:* Random value from the host provided during a previous exchange.

*Datatype:* "Max140Binary" on page 1270

### 2.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC or a digital signature.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		36
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		37
	<b>SignedData</b> <SgndData>	[0..1]	±		37

#### 2.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 2.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [0..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

#### 2.4.4.3 SignedData <SgndData>

*Presence:* [0..1]

*Definition:* Data protected by a digital signatures.

**SignedData <SgndData>** contains the following elements (see "SignedData4" on page 1252 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

## **3       caam.002.001.03          ATMDDeviceControlV03**

### **3.1     MessageDefinition Functionality**

The ATMDDeviceControl message is sent by a maintenance host to an ATM in response to an ATMDDeviceReport message. The message contains a sequence of maintenance commands the ATM must perform.

#### Outline

The ATMDDeviceControlV03 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDDeviceControl  
Encrypted body of the message.
- C. ATMDDeviceControl  
Information related to the control of an ATM device.
- D. SecurityTrailer  
Trailer of the message containing a MAC or a digital signature.

## 3.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDvcCtrl>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			42
	<b>MessageFunction</b> <MsgFctn>	[1..1]			42
	<b>Function</b> <Fctn>	[1..1]	CodeSet		43
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		44
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		44
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		44
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		45
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		45
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		45
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		45
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		45
	<b>Traceability</b> <Tracblt>	[0..*]			45
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		45
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		46
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		46
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		46
	<b>ProtectedATMDeviceControl</b> <PrctcdATMDvcCtrl>	[0..1]	±		46
	<b>ATMDeviceControl</b> <ATMDvcCtrl>	[0..1]			46
	<b>Environment</b> <Envt>	[1..1]			48
	<b>Acquirer</b> <Acqrr>	[0..1]	±		48
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		48
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		48
	<b>ATM</b> <ATM>	[1..1]	±		49
	<b>Command</b> <Cmd>	[0..*]			49
	<b>Type</b> <Tp>	[1..1]	CodeSet		50
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		51
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		52
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		52
	<b>Reason</b> <Rsn>	[0..1]	CodeSet		52



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TraceReason</b> <TracRsn>	[0..*]	CodeSet		52
	<b>AdditionalReasonInformation</b> <AddtlRsnInf>	[0..1]	Text		53
	<b>CommandParameters</b> <CmdParams>	[0..1]			53
{Or	<b>ATMRequiredGlobalStatus</b> <ATMReqrdGblSts>	[1..1]	CodeSet		54
Or	<b>ExpectedMessageFunction</b> <XpctdMsgFctn>	[1..1]	CodeSet		54
Or	<b>RequiredConfigurationParameter</b> <ReqrdCfgtnParam>	[1..1]			54
	<b>Type</b> <Tp>	[1..1]	CodeSet		54
	<b>Version</b> <Vrsn>	[1..1]	Text		55
Or	<b>RequiredSecurityScheme</b> <ReqrdSctySchme>	[1..1]	CodeSet		55
Or	<b>SecurityDevice</b> <SctyDvc>	[1..1]			56
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		56
	<b>RequiredConfiguration</b> <ReqrdCfgtn>	[0..1]	±		56
	<b>RequiredStatus</b> <ReqrdSts>	[0..1]	CodeSet		56
Or}	<b>Key</b> <Key>	[1..1]			57
	<b>KeyCategory</b> <KeyCtgy>	[0..1]	CodeSet		57
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		57
	<b>Certificate</b> <Cert>	[0..*]	Binary		57
	<b>KeyProperties</b> <KeyProps>	[0..*]			58
	<b>Name</b> <Nm>	[0..1]	Text		58
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			58
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		58
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		59
	<b>SignedData</b> <SgndData>	[0..1]	±		59

## 3.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 3.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 3.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			42
	<b>Function</b> <Fctn>	[1..1]	CodeSet		43
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		44
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		44
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		44
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		45
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		45
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		45
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		45
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		45
	<b>Traceability</b> <Tracblt>	[0..*]			45
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		45
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		46
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		46
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		46

#### 3.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		43
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		44
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		44

#### 3.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.

CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 3.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 3.4.1.1.3 HostSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 3.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

### 3.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

### 3.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

### 3.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

### 3.4.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

### 3.4.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 3.4.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		45
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		46
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		46
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		46

#### 3.4.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 3.4.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 3.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODatetime" on page 1312

#### 3.4.1.8.4 TraceDateTimeout <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODatetime" on page 1312

### 3.4.2 ProtectedATMDeviceControl <PrtctdATMDvcCtrl>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDeviceControl <PrtctdATMDvcCtrl>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 3.4.3 ATMDeviceControl <ATMDvcCtrl>

*Presence:* [0..1]

*Definition:* Information related to the control of an ATM device.

**ATMDvControl <ATMDvCtrl>** contains the following **ATMDvControl2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			48
	<b>Acquirer</b> <Acqrr>	[0..1]	±		48
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		48
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		48
	<b>ATM</b> <ATM>	[1..1]	±		49
	<b>Command</b> <Cmd>	[0..*]			49
	<b>Type</b> <Tp>	[1..1]	CodeSet		50
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		51
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		52
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		52
	<b>Reason</b> <Rsn>	[0..1]	CodeSet		52
	<b>TraceReason</b> <TracRsn>	[0..*]	CodeSet		52
	<b>AdditionalReasonInformation</b> <AddtlRsnInf>	[0..1]	Text		53
	<b>CommandParameters</b> <CmdParams>	[0..1]			53
{Or	<b>ATMRequiredGlobalStatus</b> <ATMReqrdGblSts>	[1..1]	CodeSet		54
Or	<b>ExpectedMessageFunction</b> <XpctdMsgFctn>	[1..1]	CodeSet		54
Or	<b>RequiredConfigurationParameter</b> <ReqrdCfgtnParam>	[1..1]			54
	<b>Type</b> <Tp>	[1..1]	CodeSet		54
	<b>Version</b> <Vrsn>	[1..1]	Text		55
Or	<b>RequiredSecurityScheme</b> <ReqrdSctySchme>	[1..1]	CodeSet		55
Or	<b>SecurityDevice</b> <SctyDvc>	[1..1]			56
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		56
	<b>RequiredConfiguration</b> <ReqrdCfgtn>	[0..1]	±		56
	<b>RequiredStatus</b> <ReqrdSts>	[0..1]	CodeSet		56
Or}	<b>Key</b> <Key>	[1..1]			57
	<b>KeyCategory</b> <KeyCtgy>	[0..1]	CodeSet		57
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		57
	<b>Certificate</b> <Cert>	[0..*]	Binary		57
	<b>KeyProperties</b> <KeyProps>	[0..*]			58
	<b>Name</b> <Nm>	[0..1]	Text		58

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58

### 3.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the transaction.

**Environment <Envt>** contains the following **ATMEnvironment7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		48
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		48
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		48
	<b>ATM</b> <ATM>	[1..1]	±		49

#### 3.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "[Acquirer7](#)" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 3.4.3.1.2 ATMManager <ATMMgr>

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMManager <ATMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <AppIVrsn>	[0..1]	Text		1166

#### 3.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.



**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 3.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

#### 3.4.3.2 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command the ATM must perform.

**Command <Cmd>** contains the following **ATMCommand10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		50
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		51
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		52
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		52
	<b>Reason</b> <Rsn>	[0..1]	CodeSet		52
	<b>TraceReason</b> <TracRsn>	[0..*]	CodeSet		52
	<b>AdditionalReasonInformation</b> <AddtlRsnInf>	[0..1]	Text		53
	<b>CommandParameters</b> <CmdParams>	[0..1]			53
{Or	<b>ATMRequiredGlobalStatus</b> <ATMReqrdGblSts>	[1..1]	CodeSet		54
Or	<b>ExpectedMessageFunction</b> <XpctdMsgFctn>	[1..1]	CodeSet		54
Or	<b>RequiredConfigurationParameter</b> <ReqrdCfgtnParam>	[1..1]			54
	<b>Type</b> <Tp>	[1..1]	CodeSet		54
	<b>Version</b> <Vrsn>	[1..1]	Text		55
Or	<b>RequiredSecurityScheme</b> <ReqrdSctySchme>	[1..1]	CodeSet		55
Or	<b>SecurityDevice</b> <SctyDvc>	[1..1]			56
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		56
	<b>RequiredConfiguration</b> <ReqrdCfgtn>	[0..1]	±		56
	<b>RequiredStatus</b> <ReqrdSts>	[0..1]	CodeSet		56
Or}	<b>Key</b> <Key>	[1..1]			57
	<b>KeyCategory</b> <KeyCtgy>	[0..1]	CodeSet		57
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		57
	<b>Certificate</b> <Cert>	[0..*]	Binary		57
	<b>KeyProperties</b> <KeyProps>	[0..*]			58
	<b>Name</b> <Nm>	[0..1]	Text		58
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58

#### 3.4.3.2.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

### 3.4.3.2.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.

CodeName	Name	Definition
ENCS	EndCustomerSession	After the end of the customer session

### 3.4.3.2.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

### 3.4.3.2.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

### 3.4.3.2.5 Reason <Rsn>

*Presence:* [0..1]

*Definition:* Reason for sending the command.

*Datatype:* "ATMCommandReason1Code" on page 1278

CodeName	Name	Definition
DIAG	Diagnostic	Request the status of or action from the ATM to perform a diagnostic.
MONI	Monitoring	Supervise the ATM.
SECU	SecurityError	Security error.
SYNC	Synchronisation	Desynchronisation of dialogue between entities.
UPDT	Update	Update the ATM.

### 3.4.3.2.6 TraceReason <TracRsn>

*Presence:* [0..\*]

*Definition:* Trace of reasons by the entities in the path from the origin of the command to the ATM.

*Datatype:* "ATMCommandReason1Code" on page 1278

CodeName	Name	Definition
DIAG	Diagnostic	Request the status of or action from the ATM to perform a diagnostic.
MONI	Monitoring	Supervise the ATM.

CodeName	Name	Definition
SECU	SecurityError	Security error.
SYNC	Synchronisation	Desynchronisation of dialogue between entities.
UPDT	Update	Update the ATM.

#### 3.4.3.2.7 AdditionalReasonInformation <AddtlRsnInf>

*Presence:* [0..1]

*Definition:* Additional information about the reason to request this command.

*Datatype:* "Max70Text" on page 1318

#### 3.4.3.2.8 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following **ATMCommandParameters3Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>ATMRequiredGlobalStatus</b> <ATMReqrdGblSts>	[1..1]	CodeSet		54
Or	<b>ExpectedMessageFunction</b> <XpctdMsgFctn>	[1..1]	CodeSet		54
Or	<b>RequiredConfigurationParameter</b> <ReqrdCfgtnParam>	[1..1]			54
	<b>Type</b> <Tp>	[1..1]	CodeSet		54
	<b>Version</b> <Vrsn>	[1..1]	Text		55
Or	<b>RequiredSecurityScheme</b> <ReqrdSctySchme>	[1..1]	CodeSet		55
Or	<b>SecurityDevice</b> <SctyDvc>	[1..1]			56
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		56
	<b>RequiredConfiguration</b> <ReqrdCfgtn>	[0..1]	±		56
	<b>RequiredStatus</b> <ReqrdSts>	[0..1]	CodeSet		56
Or}	<b>Key</b> <Key>	[1..1]			57
	<b>KeyCategory</b> <KeyCtgy>	[0..1]	CodeSet		57
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		57
	<b>Certificate</b> <Cert>	[0..*]	Binary		57
	<b>KeyProperties</b> <KeyProps>	[0..*]			58
	<b>Name</b> <Nm>	[0..1]	Text		58
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58

**3.4.3.2.8.1 ATMRequiredGlobalStatus <ATMReqrdGblSts>***Presence:* [1..1]*Definition:* Required status of the ATM, parameters of the status update command.*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

**3.4.3.2.8.2 ExpectedMessageFunction <XpctdMsgFctn>***Presence:* [1..1]*Definition:* Message to send for the send message command.*Datatype:* "MessageFunction8Code" on page 1302

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
GSTS	ATMGlobalStatus	Global status of the ATM.
DSEC	SecurityDetails	Security detailed report.
INQC	CountersInquiry	Request the value of the ATM counters.
KEYQ	KeyExchangeRequest	Request of a key exchange.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

**3.4.3.2.8.3 RequiredConfigurationParameter <ReqrdCfgtnParam>***Presence:* [1..1]*Definition:* Parameters to be used by the configuration update command.

**RequiredConfigurationParameter <ReqrdCfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		54
	<b>Version</b> <Vrsn>	[1..1]	Text		55

**3.4.3.2.8.3.1 Type <Tp>***Presence:* [1..1]*Definition:* Type of the ATM configuration.*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 3.4.3.2.8.3.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 3.4.3.2.8.4 RequiredSecurityScheme <ReqrdSctySchme>

*Presence:* [1..1]

*Definition:* Parameters to be used by the security scheme update command.

*Datatype:* "ATMSecurityScheme4Code" on page 1283

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

**3.4.3.2.8.5 SecurityDevice <SctyDvc>***Presence:* [1..1]*Definition:* Parameters to be used to update the configuration or the status security device.**SecurityDevice <SctyDvc>** contains the following **ATMCommandParameters1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		56
	<b>RequiredConfiguration</b> <ReqrdCfgtn>	[0..1]	±		56
	<b>RequiredStatus</b> <ReqrdSts>	[0..1]	CodeSet		56

**3.4.3.2.8.5.1 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number of the device.*Datatype:* "Max35Text" on page 1317**3.4.3.2.8.5.2 RequiredConfiguration <ReqrdCfgtn>***Presence:* [0..1]*Definition:* Update of the security configuration to apply on the security module of the ATM.**RequiredConfiguration <ReqrdCfgtn>** contains the following elements (see "ATMSecurityConfiguration1" on page 1200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrctn>	[0..*]	CodeSet		1203

**3.4.3.2.8.5.3 RequiredStatus <ReqrdSts>***Presence:* [0..1]*Definition:* New status to apply on the security module of the ATM.*Datatype:* "ATMStatus2Code" on page 1288

CodeName	Name	Definition
OPER	InOperation	Component is activated and in operation.
OUTS	OutOfService	ATM out of service.



### 3.4.3.2.8.6 Key <Key>

*Presence:* [1..1]

*Definition:* Parameters to be used by the various cryptographic key commands.

**Key <Key>** contains the following **ATMConfigurationParameter2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>KeyCategory</b> <KeyCtgy>	[0..1]	CodeSet		57
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		57
	<b>Certificate</b> <Cert>	[0..*]	Binary		57
	<b>KeyProperties</b> <KeyProps>	[0..*]			58
	<b>Name</b> <Nm>	[0..1]	Text		58
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58

#### 3.4.3.2.8.6.1 KeyCategory <KeyCtgy>

*Presence:* [0..1]

*Definition:* Category of the cryptographic key.

*Datatype:* "CryptographicKeyType4Code" on page 1294

CodeName	Name	Definition
APPL	Application	Key used to protect application information.
DATA	Data	Key used to protect data in the messages.
DYNC	Dynamic	Any cryptographic key that can be downloaded.
KENC	KeyEncryption	Key used to encrypt other keys.
MACK	MAC	Key used to generate the MAC of a message.
PINK	PIN	Key used to encrypt a PIN.
WRKG	Working	Temporary key used to download keys.

#### 3.4.3.2.8.6.2 HostChallenge <HstChllng>

*Presence:* [0..1]

*Definition:* Random value from the host provided during a previous exchange.

*Datatype:* "Max140Binary" on page 1270

#### 3.4.3.2.8.6.3 Certificate <Cert>

*Presence:* [0..\*]

*Definition:* Ordered certificate chain of the asymmetric key encryption key, starting with the host certificate.

*Datatype:* "Max5000Binary" on page 1271

#### 3.4.3.2.8.6.4 KeyProperties <KeyProps>

*Presence:* [0..\*]

*Definition:* Cryptographic key involved in the security command.

**KeyProperties <KeyProps>** contains the following **KEKIdentifier4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		58
	<b>KeyIdentification</b> <KeyId>	[0..1]	Text		58
	<b>KeyVersion</b> <KeyVrsn>	[0..1]	Text		58

##### 3.4.3.2.8.6.4.1 Name <Nm>

*Presence:* [0..1]

*Definition:* Name or label of the key.

*Datatype:* "Max140Text" on page 1316

##### 3.4.3.2.8.6.4.2 KeyIdentification <KeyId>

*Presence:* [0..1]

*Definition:* Identification of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

##### 3.4.3.2.8.6.4.3 KeyVersion <KeyVrsn>

*Presence:* [0..1]

*Definition:* Version of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

### 3.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC or a digital signature.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		58
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		59
	<b>SignedData</b> <SgndData>	[0..1]	±		59

#### 3.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 3.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [0..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

#### 3.4.4.3 SignedData <SgndData>

*Presence:* [0..1]

*Definition:* Data protected by a digital signatures.

**SignedData <SgndData>** contains the following elements (see "SignedData4" on page 1252 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

## **4 caam.003.001.03 ATMKeyDownloadRequestV03**

### **4.1 MessageDefinition Functionality**

The ATMKeyDownloadRequest message is sent by an ATM to an ATM manager to initiate the download of one or several cryptographic keys.

#### Outline

The ATMKeyDownloadRequestV03 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMKeyDownloadRequest  
Encrypted body of the message.
- C. ATMKeyDownloadRequest  
Information related to the request of a key download from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC or a digital signature.

## 4.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root &lt;Document&gt; &lt;ATMKeyDwnldReq&gt;</i>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			64
	<b>MessageFunction</b> <MsgFctn>	[1..1]			65
	<b>Function</b> <Fctn>	[1..1]	CodeSet		65
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		67
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		67
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		67
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		67
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		67
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		67
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		68
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		68
	<b>Traceability</b> <Tracblt>	[0..*]			68
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		68
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		68
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		69
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		69
	<b>ProtectedATMKeyDownloadRequest</b> <PrctcdATMKeyDwnldReq>	[0..1]	±		69
	<b>ATMKeyDownloadRequest</b> <ATMKeyDwnldReq>	[0..1]			69
	<b>Environment</b> <Envnt>	[1..1]			71
	<b>Acquirer</b> <Acqrr>	[0..1]	±		71
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		72
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		72
	<b>ATM</b> <ATM>	[1..1]	±		72
	<b>CommandResult</b> <CmdRslt>	[0..*]			74
	<b>Type</b> <Tp>	[1..1]	CodeSet		74
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		75
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		75
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		75

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Result</b> <Rslt>	[1..1]	CodeSet		75
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		76
	<b>CommandContext</b> <CmdCntxt>	[0..1]			76
	<b>Type</b> <Tp>	[1..1]	CodeSet		76
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		77
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[1..1]			77
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		78
	<b>DeviceProperty</b> <DvcPrprty>	[0..1]	±		78
	<b>CurrentConfiguration</b> <CurCfgr>	[0..1]	±		79
	<b>ATMSecurityParameters</b> <ATMSctyParams>	[1..1]			79
	<b>Key</b> <Key>	[0..1]			80
	<b>Name</b> <Nm>	[0..1]	Text		81
	<b>Identification</b> <Id>	[0..1]	Text		81
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		81
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		82
	<b>Version</b> <Vrsn>	[0..1]	Text		82
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		82
	<b>Type</b> <Tp>	[0..1]	CodeSet		82
	<b>Function</b> <Fctn>	[0..*]	CodeSet		83
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		83
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		83
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		83
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			84
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		84
	<b>Exponent</b> <Expnt>	[1..1]	Binary		84
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			84
{Or	<b>EncryptedKey</b> <NcrptdKeyVal>	[0..1]	±		84
Or}	<b>TRRRelatedData</b> <TRRltdData>	[0..1]			85
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		85
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		85
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			85

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		86
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			86
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		86
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		87
	<b>Certificate</b> <Cert>	[0..*]	Binary		87
	<b>ATMChallenge</b> <ATMChllng>	[0..1]	Binary		87
	<b>RequestedKey</b> <ReqdKey>	[0..1]	Text		87
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		87
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			87
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		87
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		88
	<b>SignedData</b> <SgndData>	[0..1]	±		88

## 4.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 4.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 4.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.



**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			65
	<b>Function</b> <Fctn>	[1..1]	CodeSet		65
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		67
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		67
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		67
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		67
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		67
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		67
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		68
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		68
	<b>Traceability</b> <Tracblt>	[0..*]			68
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		68
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		68
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		69
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		69

#### 4.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		65
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		67
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		67

##### 4.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 4.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 4.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 4.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 4.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 4.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 4.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 4.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 4.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 4.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		68
	SequenceNumber <SeqNb>	[0..1]	Text		68
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		69
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		69

##### 4.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 4.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 4.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 4.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 4.4.2 ProtectedATMKeyDownloadRequest <PrtctdATMKeyDwnldReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMKeyDownloadRequest <PrtctdATMKeyDwnldReq>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 4.4.3 ATMKeyDownloadRequest <ATMKeyDwnldReq>

*Presence:* [0..1]

*Definition:* Information related to the request of a key download from an ATM.

**ATMKeyDownloadRequest** <ATMKeyDwnldReq> contains the following  
**ATMKeyDownloadRequest4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			71
	<b>Acquirer</b> <Acqrr>	[0..1]	±		71
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		72
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		72
	<b>ATM</b> <ATM>	[1..1]	±		72
	<b>CommandResult</b> <CmdRslt>	[0..*]			74
	<b>Type</b> <Tp>	[1..1]	CodeSet		74
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		75
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		75
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		75
	<b>Result</b> <Rslt>	[1..1]	CodeSet		75
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		76
	<b>CommandContext</b> <CmdCntxt>	[0..1]			76
	<b>Type</b> <Tp>	[1..1]	CodeSet		76
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		77
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[1..1]			77
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		78
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]	±		78
	<b>CurrentConfiguration</b> <CurCfgtn>	[0..1]	±		79
	<b>ATMSecurityParameters</b> <ATMSctyParams>	[1..1]			79
	<b>Key</b> <Key>	[0..1]			80
	<b>Name</b> <Nm>	[0..1]	Text		81
	<b>Identification</b> <Id>	[0..1]	Text		81
	<b>SecurityDomainIdentification</b> <SctyDomnld>	[0..1]	Text		81
	<b>AdditionalIdentification</b> <Addtlld>	[0..1]	Binary		82
	<b>Version</b> <Vrsn>	[0..1]	Text		82
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		82
	<b>Type</b> <Tp>	[0..1]	CodeSet		82
	<b>Function</b> <Fctn>	[0..*]	CodeSet		83
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		83

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		83
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		83
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			84
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		84
	<b>Exponent</b> <Expnt>	[1..1]	Binary		84
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			84
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		84
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			85
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		85
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		85
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			85
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		86
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			86
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		86
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		87
	<b>Certificate</b> <Cert>	[0..*]	Binary		87
	<b>ATMChallenge</b> <ATMChllng>	[0..1]	Binary		87
	<b>RequestedKey</b> <ReqdKey>	[0..1]	Text		87
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		87

#### 4.4.3.1 Environment <Envvt>

*Presence:* [1..1]

*Definition:* Environment of the key download.

**Environment <Envvt>** contains the following **ATMEnvironment15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		71
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		72
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		72
	<b>ATM</b> <ATM>	[1..1]	±		72

##### 4.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 4.4.3.1.2 ATMMManagerIdentification <ATMMgrId>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 4.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 4.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.



**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine6" on page 1205 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1207
	AdditionalIdentification <AddtlId>	[0..1]	Text		1207
	SequenceNumber <SeqNb>	[0..1]	Text		1207
	Location <Lctn>	[0..1]			1207
	AddressLine <AdrLine>	[0..2]	Text		1208
	StreetName <StrtNm>	[0..1]	Text		1208
	BuildingNumber <BldgNb>	[0..1]	Text		1208
	PostCode <PstCd>	[0..1]	Text		1208
	TownName <TwnNm>	[1..1]	Text		1208
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1208
	Country <Ctry>	[1..1]	CodeSet	C1	1208
	GeoLocation <GLctn>	[0..1]			1209
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1209
	Latitude <Lat>	[1..1]	Text		1209
	Longitude <Long>	[1..1]	Text		1209
Or}	UTMCoordinates <UTMCordints>	[1..1]			1210
	UTMZone <UTMZone>	[1..1]	Text		1210
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1210
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1210
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1210
	Equipment <Eqpmnt>	[0..1]			1211
	Manufacturer <Manfctr>	[0..1]	Text		1211
	Model <Mdl>	[0..1]	Text		1211
	SerialNumber <SrlNb>	[0..1]	Text		1211
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1211
	ApplicationName <ApplNm>	[0..1]	Text		1211
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1212
	ApprovalNumber <ApprvlNb>	[0..1]	Text		1212
	ConfigurationParameter <CfgrtnParam>	[0..*]			1212
	Type <Tp>	[1..1]	CodeSet		1212
	Version <Vrsn>	[1..1]	Text		1213

#### 4.4.3.2 CommandResult <CmdRslt>

*Presence:* [0..\*]

*Definition:* Result of a maintenance command performed by the ATM.

**CommandResult <CmdRslt>** contains the following **ATMCommand11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		74
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		75
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		75
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		75
	<b>Result</b> <Rslt>	[1..1]	CodeSet		75
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		76

##### 4.4.3.2.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34

CodeName	Name	Definition
		scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

#### 4.4.3.2.2 RequiredDateTime <ReqrdDtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command has been requested to be performed.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 4.4.3.2.3 ProcessedDateTime <PrcdDtTm>

*Presence:* [1..1]

*Definition:* Date time on which the command has been performed.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 4.4.3.2.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see ["ATMCommandIdentification1" on page 1169](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 4.4.3.2.5 Result <Rslt>

*Presence:* [1..1]

*Definition:* Final result of the processed command at the ATM.

*Datatype:* ["TerminalManagementActionResult2Code" on page 1310](#)

CodeName	Name	Definition
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
HRDW	Hardware	Hardware error.
NSUP	NotSupported	Action is not supported.

CodeName	Name	Definition
SECR	Security	Security error.
SUCC	Success	Action was successfully performed.
SYNE	SyntaxError	Data transferred has a wrong syntax.
TIMO	Timeout	Timeout expired during the data transfer.
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.

#### 4.4.3.2.6 AdditionalErrorInformation <AddtlErrInf>

*Presence:* [0..1]

*Definition:* Additional information on the failure to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 4.4.3.3 CommandContext <CmdCntxt>

*Presence:* [0..1]

*Definition:* Security command in progress inside which the key download is requested.

**CommandContext <CmdCntxt>** contains the following **ATMCommand12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type &lt;Tp&gt;</b>	[1..1]	CodeSet		76
	<b>CommandIdentification &lt;CmdId&gt;</b>	[0..1]	±		77

##### 4.4.3.3.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.

CodeName	Name	Definition
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

#### 4.4.3.3.2 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 4.4.3.4 ATMSecurityContext <ATMSctyCntxt>

*Presence:* [1..1]

*Definition:* Context of the ATM for the key download.

**ATMSecurityContext <ATMSctyCntxt>** contains the following **ATMSecurityContext3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		78
	<b>DeviceProperty</b> <DvcPrprty>	[0..1]	±		78
	<b>CurrentConfiguration</b> <CurCfgtn>	[0..1]	±		79

**4.4.3.4.1 CurrentSecurityScheme <CurSctySchme>***Presence:* [1..1]*Definition:* Key exchange security scheme in activation on the ATM for the host manager.*Datatype:* "ATMSecurityScheme3Code" on page 1283

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
NONE	Unitialised	No key exchange performed, no security scheme defined.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

**4.4.3.4.2 DeviceProperty <DvcPrprty>***Presence:* [0..1]*Definition:* Hardware security module information, so called EPP for Encrypted PIN Pad.

**DeviceProperty <DvcPrprty>** contains the following elements (see "ATMEquipment3" on page 1204 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1204
	Model <Mdl>	[0..1]	Text		1204
	Version <Vrsn>	[0..1]	Text		1204
	SerialNumber <SrlNb>	[0..1]	Text		1204
	SignedSerialNumber <SgndSrlNb>	[0..1]	±		1204
	FirmwareProvider <FrmwrPrvdr>	[0..1]	Text		1205
	FirmwareIdentification <Frmwrld>	[0..1]	Text		1205
	FirmwareVersion <FrmwrVrsn>	[0..1]	Text		1205

#### 4.4.3.4.3 CurrentConfiguration <CurCfgtn>

*Presence:* [0..1]

*Definition:* Configuration parameters in use by the security device.

**CurrentConfiguration <CurCfgtn>** contains the following elements (see "ATMSecurityConfiguration1" on page 1200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrtcn>	[0..*]	CodeSet		1203

#### 4.4.3.5 ATMSecurityParameters <ATMSctyParams>

*Presence:* [1..1]

*Definition:* Security parameters of the ATM for the initiated key download.

**ATMSecurityParameters <ATMSctyParams>** contains the following **SecurityParameters9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Key</b> <Key>	[0..1]			80
	<b>Name</b> <Nm>	[0..1]	Text		81
	<b>Identification</b> <Id>	[0..1]	Text		81
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		81
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		82
	<b>Version</b> <Vrsn>	[0..1]	Text		82
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		82
	<b>Type</b> <Tp>	[0..1]	CodeSet		82
	<b>Function</b> <Fctn>	[0..*]	CodeSet		83
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		83
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		83
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		83
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			84
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		84
	<b>Exponent</b> <Expnt>	[1..1]	Binary		84
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			84
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		84
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			85
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		85
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		85
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			85
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		86
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			86
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		86
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		87
	<b>Certificate</b> <Cert>	[0..*]	Binary		87
	<b>ATMChallenge</b> <ATMChllng>	[0..1]	Binary		87
	<b>RequestedKey</b> <ReqdKey>	[0..1]	Text		87

#### 4.4.3.5.1 Key <Key>

Presence: [0..1]



*Definition:* Cryptographic key used to protect the key download.

**Key <Key>** contains the following **CryptographicKey12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		81
	<b>Identification</b> <Id>	[0..1]	Text		81
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		81
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		82
	<b>Version</b> <Vrsn>	[0..1]	Text		82
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		82
	<b>Type</b> <Tp>	[0..1]	CodeSet		82
	<b>Function</b> <Fctn>	[0..*]	CodeSet		83
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		83
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		83
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		83
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			84
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		84
	<b>Exponent</b> <Expnt>	[1..1]	Binary		84
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			84
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		84
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			85
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		85
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		85

#### 4.4.3.5.1.1 Name <Nm>

*Presence:* [0..1]

*Definition:* Name or label of the key.

*Datatype:* "Max140Text" on page 1316

#### 4.4.3.5.1.2 Identification <Id>

*Presence:* [0..1]

*Definition:* Name of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

#### 4.4.3.5.1.3 SecurityDomainIdentification <SctyDomnId>

*Presence:* [0..1]

*Definition:* Identification of the security domain.

*Datatype:* "Max35Text" on page 1317

#### 4.4.3.5.1.4 AdditionalIdentification <AddtIId>

*Presence:* [0..1]

*Definition:* Additional identification of the key, for instance to derive the key.

*Datatype:* "Max35Binary" on page 1270

#### 4.4.3.5.1.5 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the cryptographic key.

*Datatype:* "Max256Text" on page 1316

#### 4.4.3.5.1.6 SequenceCounter <SeqCntr>

*Presence:* [0..1]

*Definition:* Sequence counter of the cryptographic key.

*Datatype:* "Number" on page 1314

#### 4.4.3.5.1.7 Type <Tp>

*Presence:* [0..1]

*Definition:* Type of algorithm used by the cryptographic key.

*Datatype:* "CryptographicKeyType3Code" on page 1294

CodeName	Name	Definition
AES2	AES128	AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE3	DES112	Data encryption standard key of 112 bits (without the parity bits).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) key, as specified in ANSI X9.24-2009 Annex A.
AES9	AES192	AES (Advanced Encryption Standard) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
AES5	AES256	AES (Advanced Encryption Standard) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE4	DES168	Data encryption standard key of 168 bits (without the parity bits).

**4.4.3.5.1.8 Function <Fctn>***Presence:* [0..\*]*Definition:* Allowed usage of the key.*Datatype:* "KeyUsage1Code" on page 1299

CodeName	Name	Definition
ENCR	Encryption	Key may encrypt.
DCPT	Decryption	Key may decrypt.
DENC	DataEncryption	Key may encrypt data.
DDEC	DataDecryption	Key may decrypt data.
TRNI	TranslateInput	Key may encrypt information before translation.
TRNX	TranslateOutput	Key may encrypt information after translation.
MACG	MessageAuthenticationCodeGeneration	Key may generate message authentication codes (MAC).
MACV	MessageAuthenticationCodeVerification	Key may verify message authentication codes (MAC).
SIGG	SignatureGeneration	Key may generate digital signatures.
SUGV	SignatureVerification	Key may verify digital signatures.
PINE	PINEncryption	Key may encrypt personal identification numbers (PIN).
PIND	PINDecryption	Key may decrypt personal identification numbers (PIN).
PINV	PINVerification	Key may verify personal identification numbers (PIN).
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

**4.4.3.5.1.9 ActivationDate <ActvtnDt>***Presence:* [0..1]*Definition:* Date and time on which the key must be activated.*Datatype:* "ISODateTime" on page 1312**4.4.3.5.1.10 DeactivationDate <DeactvtnDt>***Presence:* [0..1]*Definition:* Date and time on which the key must be deactivated.*Datatype:* "ISODateTime" on page 1312**4.4.3.5.1.11 KeyCheckValue <KeyChckVal>***Presence:* [0..1]

*Definition:* Value for checking a cryptographic key.

*Datatype:* "Max35Binary" on page 1270

#### 4.4.3.5.1.12 PublicKeyValue <PblcKeyVal>

*Presence:* [0..1]

*Definition:* Value of the public component of a RSA key.

**PublicKeyValue <PblcKeyVal>** contains the following **PublicRSAKey1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		84
	<b>Exponent</b> <Expnt>	[1..1]	Binary		84

##### 4.4.3.5.1.12.1 Modulus <Mdlus>

*Presence:* [1..1]

*Definition:* Modulus of the RSA key.

*Datatype:* "Max5000Binary" on page 1271

##### 4.4.3.5.1.12.2 Exponent <Expnt>

*Presence:* [1..1]

*Definition:* Public exponent of the RSA key.

*Datatype:* "Max5000Binary" on page 1271

#### 4.4.3.5.1.13 KeyChoiceValue <KeyChcVal>

*Presence:* [0..1]

*Definition:* Element containing the key information.

**KeyChoiceValue <KeyChcVal>** contains one of the following **KeyChoiceValue2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		84
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			85
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		85
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		85

##### 4.4.3.5.1.13.1 EncryptedKeyValue <NcrptdKeyVal>

*Presence:* [0..1]

*Definition:* Encrypted value of the cryptographic key.

**EncryptedKeyValue <NcrptdKeyVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 4.4.3.5.1.13.2 TRRelatedData <TRRltdData>

*Presence:* [0..1]

*Definition:* Data block for a TR31 or TR34 block, where the block does not contain a key (for example the TR34 unbind which contains the signed authorization data).

**TRRelatedData <TRRltdData>** contains the following **TRRelatedData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TR34Command <TR34Cmd>	[0..1]	CodeSet		85
	TRBlock <TRBlck>	[0..1]	Binary		85

#### 4.4.3.5.1.13.2.1 TR34Command <TR34Cmd>

*Presence:* [0..1]

*Definition:* Specific TR34 command where the TRBlock is a TR34 block.

*Datatype:* "TR34Command1Code" on page 1310

CodeName	Name	Definition
BIND	Bind	TR34 bind operation.
HILR	HigherLevelRebind	TR34 Higher Level rebind operation.
HILU	HigherLevelUnbind	TR34 Higher Level unbind operation.
RBND	Rebind	TR34 rebind operation.
UBND	Unbind	TR34 unbind operation.

#### 4.4.3.5.1.13.2.2 TRBlock <TRBlck>

*Presence:* [0..1]

*Definition:* TR31 or TR34 data block.

*Datatype:* "Max100KBinary" on page 1270

#### 4.4.3.5.2 SignatureChoice <SgntrChc>

*Presence:* [0..1]

*Definition:* Element containing the signature.

**SignatureChoice <SgntrChc>** contains one of the following **ATMSignature2Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		86
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			86
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		86
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		87

#### 4.4.3.5.2.1 DigitalSignature <DgtlSgntr>

*Presence:* [0..1]

*Definition:* Digital signature of implicit data depending on the security scheme download procedure.

**DigitalSignature <DgtlSgntr>** contains the following elements (see "[ContentInformationType14](#)" on page 1234 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1235
	SignedData <SgndData>	[1..1]	±		1235

#### 4.4.3.5.2.2 TRRelatedData <TRRltdData>

*Presence:* [0..1]

*Definition:* The data block for a TR31 or TR34 block, where the block does not contain a key (for example the TR34 unbind which contains the signed authorization data).

**TRRelatedData <TRRltdData>** contains the following **TRRelatedData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		86
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		87

#### 4.4.3.5.2.2.1 TR34Command <TR34Cmd>

*Presence:* [0..1]

*Definition:* Specific TR34 command where the TRBlock is a TR34 block.

*Datatype:* "TR34Command1Code" on page 1310

CodeName	Name	Definition
BIND	Bind	TR34 bind operation.
HILR	HigherLevelRebind	TR34 Higher Level rebind operation.
HILU	HigherLevelUnbind	TR34 Higher Level unbind operation.
RBND	Rebind	TR34 rebind operation.
UBND	Unbind	TR34 unbind operation.

**4.4.3.5.2.2 TRBlock <TRBlck>***Presence:* [0..1]*Definition:* TR31 or TR34 data block.*Datatype:* "Max100KBinary" on page 1270**4.4.3.5.3 Certificate <Cert>***Presence:* [0..\*]*Definition:* Ordered certificate chain of the asymmetric key encryption key, starting with the ATM certificate.*Datatype:* "Max5000Binary" on page 1271**4.4.3.5.4 ATMChallenge <ATMChllng>***Presence:* [0..1]*Definition:* Random value from the ATM to avoid message replay.*Datatype:* "Max140Binary" on page 1270**4.4.3.5.5 RequestedKey <ReqdKey>***Presence:* [0..1]*Definition:* Requested key for downloading, depending on the key hierarchy used by the host.*Datatype:* "Max35Text" on page 1317**4.4.3.6 HostChallenge <HstChllng>***Presence:* [0..1]*Definition:* Random value from the host provided during a previous exchange.*Datatype:* "Max140Binary" on page 1270**4.4.4 SecurityTrailer <SctyTrlr>***Presence:* [0..1]*Definition:* Trailer of the message containing a MAC or a digital signature.**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		87
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		88
	<b>SignedData</b> <SgndData>	[0..1]	±		88

**4.4.4.1 ContentType <CnttTp>***Presence:* [1..1]*Definition:* Type of data protection.*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 4.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [0..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

#### 4.4.4.3 SignedData <SgndData>

*Presence:* [0..1]

*Definition:* Data protected by a digital signatures.



**SignedData <SgndData>** contains the following elements (see "SignedData4" on page 1252 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

## **5        caam.004.001.03**

# **ATMKeyDownloadResponseV03**

### **5.1      MessageDefinition Functionality**

The ATMKeyDownloadResponse message is sent from an acquirer to an ATM in response to an ATMKeyDownloadRequest message, to download of one or several cryptographic keys.

#### Outline

The ATMKeyDownloadResponseV03 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMKeyDownloadResponse  
Encrypted body of the message.
- C. ATMKeyDownloadResponse  
Information related to the response of an ATM key download from an ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC or a digital signature.

## 5.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMKeyDwnldRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			93
	<b>MessageFunction</b> <MsgFctn>	[1..1]			94
	<b>Function</b> <Fctn>	[1..1]	CodeSet		94
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		96
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		96
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		96
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		96
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		96
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		96
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		97
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		97
	<b>Traceability</b> <Tracblt>	[0..*]			97
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		97
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		97
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		98
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		98
	<b>ProtectedATMKeyDownloadResponse</b> <PrtctdATMKeyDwnldRspn>	[0..1]	±		98
	<b>ATMKeyDownloadResponse</b> <ATMKeyDwnldRspn>	[0..1]			98
	<b>Environment</b> <Envnt>	[1..1]			100
	<b>Acquirer</b> <Acqrr>	[0..1]	±		100
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		101
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		101
	<b>ATM</b> <ATM>	[1..1]	±		101
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[1..1]			102
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		102
	<b>DeviceProperty</b> <DvcPrprty>	[0..1]	±		103
	<b>CurrentConfiguration</b> <CurCfgr>	[0..1]	±		103
	<b>ATMChallenge</b> <ATMChllng>	[0..1]	Binary		104

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>HostSecurityParameters</b> <HstSctyParams>	[1..1]			104
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		105
	<b>Key</b> <Key>	[0..*]			106
	<b>Name</b> <Nm>	[0..1]	Text		106
	<b>Identification</b> <Id>	[0..1]	Text		106
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		107
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		107
	<b>Version</b> <Vrsn>	[0..1]	Text		107
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		107
	<b>Type</b> <Tp>	[0..1]	CodeSet		107
	<b>Function</b> <Fctn>	[0..*]	CodeSet		108
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		108
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		108
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		109
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			109
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		109
	<b>Exponent</b> <Expnt>	[1..1]	Binary		109
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			109
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		109
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			110
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		110
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		110
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			110
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		111
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			111
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		111
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		112
	<b>Command</b> <Cmd>	[0..*]			112
	<b>Type</b> <Tp>	[1..1]	CodeSet		112
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		113
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		113

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		113
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		114
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			114
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		114
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		115
	<b>SignedData</b> <SgndData>	[0..1]	±		115

## 5.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 5.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 5.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			94
	<b>Function</b> <Fctn>	[1..1]	CodeSet		94
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		96
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		96
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		96
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		96
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		96
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		96
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		97
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		97
	<b>Traceability</b> <Tracblt>	[0..*]			97
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		97
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		97
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		98
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		98

#### 5.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		94
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		96
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		96

##### 5.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 5.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 5.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 5.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 5.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 5.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 5.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.



Datatype: "Max35Text" on page 1317

#### 5.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 5.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 5.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		97
	SequenceNumber <SeqNb>	[0..1]	Text		97
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		98
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		98

##### 5.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 5.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 5.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 5.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 5.4.2 ProtectedATMKeyDownloadResponse <PrtctdATMKeyDwnldRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMKeyDownloadResponse <PrtctdATMKeyDwnldRspn>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 5.4.3 ATMKeyDownloadResponse <ATMKeyDwnldRspn>

*Presence:* [0..1]

*Definition:* Information related to the response of an ATM key download from an ATM manager.

**ATMKeyDownloadResponse <ATMKeyDwnldRspn>** contains the following  
**ATMKeyDownloadResponse4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			100
	<b>Acquirer</b> <Acqrr>	[0..1]	±		100
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		101
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		101
	<b>ATM</b> <ATM>	[1..1]	±		101
	<b>ATMSecurityContext</b> <ATMSctyCntxt>	[1..1]			102
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		102
	<b>DeviceProperty</b> <DvcPrpty>	[0..1]	±		103
	<b>CurrentConfiguration</b> <CurCfgtn>	[0..1]	±		103
	<b>ATMChallenge</b> <ATMChllng>	[0..1]	Binary		104
	<b>HostSecurityParameters</b> <HstSctyParams>	[1..1]			104
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		105
	<b>Key</b> <Key>	[0..*]			106
	<b>Name</b> <Nm>	[0..1]	Text		106
	<b>Identification</b> <Id>	[0..1]	Text		106
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		107
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		107
	<b>Version</b> <Vrsn>	[0..1]	Text		107
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		107
	<b>Type</b> <Tp>	[0..1]	CodeSet		107
	<b>Function</b> <Fctn>	[0..*]	CodeSet		108
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		108
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		108
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		109
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			109
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		109
	<b>Exponent</b> <Expnt>	[1..1]	Binary		109
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			109
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		109
Or}	<b>TRRRelatedData</b> <TRRltdData>	[0..1]			110

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		110
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		110
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			110
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		111
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			111
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		111
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		112
	<b>Command</b> <Cmd>	[0..*]			112
	<b>Type</b> <Tp>	[1..1]	CodeSet		112
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		113
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		113
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		113
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		114

#### 5.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the key download.

**Environment <Envt>** contains the following **ATMEnvironment7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		100
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		101
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		101
	<b>ATM</b> <ATM>	[1..1]	±		101

##### 5.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see ["Acquirer7"](#) on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 5.4.3.1.2 ATMManager <ATMMgr>

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMManager <ATMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

#### 5.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "[TerminalHosting1](#)" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 5.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1227

#### 5.4.3.2 ATMSecurityContext <ATMSctyCntxt>

*Presence:* [1..1]

*Definition:* Context of the ATM for the key download.

**ATMSecurityContext <ATMSctyCntxt>** contains the following **ATMSecurityContext3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrentSecurityScheme</b> <CurSctySchme>	[1..1]	CodeSet		102
	<b>DeviceProperty</b> <DvcPrprty>	[0..1]	±		103
	<b>CurrentConfiguration</b> <CurCfgr>	[0..1]	±		103

##### 5.4.3.2.1 CurrentSecurityScheme <CurSctySchme>

*Presence:* [1..1]

*Definition:* Key exchange security scheme in activation on the ATM for the host manager.

Datatype: "ATMSecurityScheme3Code" on page 1283

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
NONE	Unitialised	No key exchange performed, no security scheme defined.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

#### 5.4.3.2.2 DeviceProperty <DvcPrpty>

Presence: [0..1]

Definition: Hardware security module information, so called EPP for Encrypted PIN Pad.

**DeviceProperty <DvcPrpty>** contains the following elements (see "ATMEquipment3" on page 1204 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1204
	Model <Mdl>	[0..1]	Text		1204
	Version <Vrsn>	[0..1]	Text		1204
	SerialNumber <SrlNb>	[0..1]	Text		1204
	SignedSerialNumber <SgndSrlNb>	[0..1]	±		1204
	FirmwareProvider <FrmwrPrvdr>	[0..1]	Text		1205
	FirmwareIdentification <Frmwrld>	[0..1]	Text		1205
	FirmwareVersion <FrmwrVrsn>	[0..1]	Text		1205

#### 5.4.3.2.3 CurrentConfiguration <CurCfgtn>

Presence: [0..1]

*Definition:* Configuration parameters in use by the security device.

**CurrentConfiguration <CurCfgr>** contains the following elements (see "ATMSecurityConfiguration1" on page 1200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrtcn>	[0..*]	CodeSet		1203

#### 5.4.3.3 ATMChallenge <ATMChllng>

*Presence:* [0..1]

*Definition:* Random value from the ATM provided during a previous exchange.

*Datatype:* "Max140Binary" on page 1270

#### 5.4.3.4 HostSecurityParameters <HstSctyParams>

*Presence:* [1..1]

*Definition:* Security parameters of the host downloading the key.



**HostSecurityParameters <HstSctyParams>** contains the following **SecurityParameters10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>HostChallenge</b> <HstChllng>	[0..1]	Binary		105
	<b>Key</b> <Key>	[0..*]			106
	<b>Name</b> <Nm>	[0..1]	Text		106
	<b>Identification</b> <Id>	[0..1]	Text		106
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		107
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		107
	<b>Version</b> <Vrsn>	[0..1]	Text		107
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		107
	<b>Type</b> <Tp>	[0..1]	CodeSet		107
	<b>Function</b> <Fctn>	[0..*]	CodeSet		108
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		108
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		108
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		109
	<b>PublicKeyValue</b> <PblcKeyVal>	[0..1]			109
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		109
	<b>Exponent</b> <Expnt>	[1..1]	Binary		109
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			109
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		109
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			110
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		110
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		110
	<b>SignatureChoice</b> <SgntrChc>	[0..1]			110
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		111
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			111
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		111
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		112

#### 5.4.3.4.1 HostChallenge <HstChllng>

*Presence:* [0..1]

*Definition:* Random value from the host.

*Datatype:* "Max140Binary" on page 1270

#### 5.4.3.4.2 Key <Key>

*Presence:* [0..\*]

*Definition:* Cryptographic key used to store in the ATM.

**Key <Key>** contains the following **CryptographicKey12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		106
	<b>Identification</b> <Id>	[0..1]	Text		106
	<b>SecurityDomainIdentification</b> <SctyDomnId>	[0..1]	Text		107
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Binary		107
	<b>Version</b> <Vrsn>	[0..1]	Text		107
	<b>SequenceCounter</b> <SeqCntr>	[0..1]	Quantity		107
	<b>Type</b> <Tp>	[0..1]	CodeSet		107
	<b>Function</b> <Fctn>	[0..*]	CodeSet		108
	<b>ActivationDate</b> <ActvtnDt>	[0..1]	DateTime		108
	<b>DeactivationDate</b> <DeactvtnDt>	[0..1]	DateTime		108
	<b>KeyCheckValue</b> <KeyChckVal>	[0..1]	Binary		109
	<b>PublicKeyValue</b> <PblicKeyVal>	[0..1]			109
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		109
	<b>Exponent</b> <Expnt>	[1..1]	Binary		109
	<b>KeyChoiceValue</b> <KeyChcVal>	[0..1]			109
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		109
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			110
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		110
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		110

##### 5.4.3.4.2.1 Name <Nm>

*Presence:* [0..1]

*Definition:* Name or label of the key.

*Datatype:* "Max140Text" on page 1316

##### 5.4.3.4.2.2 Identification <Id>

*Presence:* [0..1]

*Definition:* Name of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

**5.4.3.4.2.3 SecurityDomainIdentification <SctyDomnId>***Presence:* [0..1]*Definition:* Identification of the security domain.*Datatype:* "Max35Text" on page 1317**5.4.3.4.2.4 AdditionalIdentification <AddtId>***Presence:* [0..1]*Definition:* Additional identification of the key, for instance to derive the key.*Datatype:* "Max35Binary" on page 1270**5.4.3.4.2.5 Version <Vrsn>***Presence:* [0..1]*Definition:* Version of the cryptographic key.*Datatype:* "Max256Text" on page 1316**5.4.3.4.2.6 SequenceCounter <SeqCntr>***Presence:* [0..1]*Definition:* Sequence counter of the cryptographic key.*Datatype:* "Number" on page 1314**5.4.3.4.2.7 Type <Tp>***Presence:* [0..1]*Definition:* Type of algorithm used by the cryptographic key.*Datatype:* "CryptographicKeyType3Code" on page 1294

CodeName	Name	Definition
AES2	AES128	AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE3	DES112	Data encryption standard key of 112 bits (without the parity bits).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) key, as specified in ANSI X9.24-2009 Annex A.
AES9	AES192	AES (Advanced Encryption Standard) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
AES5	AES256	AES (Advanced Encryption Standard) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

CodeName	Name	Definition
EDE4	DES168	Data encryption standard key of 168 bits (without the parity bits).

#### 5.4.3.4.2.8 Function <Fctn>

*Presence:* [0..\*]

*Definition:* Allowed usage of the key.

*Datatype:* "KeyUsage1Code" on page 1299

CodeName	Name	Definition
ENCR	Encryption	Key may encrypt.
DCPT	Decryption	Key may decrypt.
DENC	DataEncryption	Key may encrypt data.
DDEC	DataDecryption	Key may decrypt data.
TRNI	TranslateInput	Key may encrypt information before translation.
TRNX	TranslateOutput	Key may encrypt information after translation.
MACG	MessageAuthenticationCodeGeneration	Key may generate message authentication codes (MAC).
MACV	MessageAuthenticationCodeVerification	Key may verify message authentication codes (MAC).
SIGG	SignatureGeneration	Key may generate digital signatures.
SUGV	SignatureVerification	Key may verify digital signatures.
PINE	PINEncryption	Key may encrypt personal identification numbers (PIN).
PIND	PINDecryption	Key may decrypt personal identification numbers (PIN).
PINV	PINVerification	Key may verify personal identification numbers (PIN).
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

#### 5.4.3.4.2.9 ActivationDate <ActvtnDt>

*Presence:* [0..1]

*Definition:* Date and time on which the key must be activated.

*Datatype:* "ISODatetime" on page 1312

#### 5.4.3.4.2.10 DeactivationDate <DeactvtnDt>

*Presence:* [0..1]

*Definition:* Date and time on which the key must be deactivated.

*Datatype:* "ISODateTime" on page 1312

#### 5.4.3.4.2.11 KeyCheckValue <KeyChckVal>

*Presence:* [0..1]

*Definition:* Value for checking a cryptographic key.

*Datatype:* "Max35Binary" on page 1270

#### 5.4.3.4.2.12 PublicKeyValue <PblcKeyVal>

*Presence:* [0..1]

*Definition:* Value of the public component of a RSA key.

**PublicKeyValue <PblcKeyVal>** contains the following **PublicRSAKey1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Modulus</b> <Mdlus>	[1..1]	Binary		109
	<b>Exponent</b> <Expnt>	[1..1]	Binary		109

##### 5.4.3.4.2.12.1 Modulus <Mdlus>

*Presence:* [1..1]

*Definition:* Modulus of the RSA key.

*Datatype:* "Max5000Binary" on page 1271

##### 5.4.3.4.2.12.2 Exponent <Expnt>

*Presence:* [1..1]

*Definition:* Public exponent of the RSA key.

*Datatype:* "Max5000Binary" on page 1271

#### 5.4.3.4.2.13 KeyChoiceValue <KeyChcVal>

*Presence:* [0..1]

*Definition:* Element containing the key information.

**KeyChoiceValue <KeyChcVal>** contains one of the following **KeyChoiceValue2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>EncryptedKeyValue</b> <NcrptdKeyVal>	[0..1]	±		109
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			110
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		110
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		110

##### 5.4.3.4.2.13.1 EncryptedKeyValue <NcrptdKeyVal>

*Presence:* [0..1]

*Definition:* Encrypted value of the cryptographic key.

**EncryptedKeyValue <NcrptdKeyVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 5.4.3.4.2.13.2 TRRelatedData <TRRltdData>

*Presence:* [0..1]

*Definition:* Data block for a TR31 or TR34 block, where the block does not contain a key (for example the TR34 unbind which contains the signed authorization data).

**TRRelatedData <TRRltdData>** contains the following **TRRelatedData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TR34Command <TR34Cmd>	[0..1]	CodeSet		110
	TRBlock <TRBlck>	[0..1]	Binary		110

#### 5.4.3.4.2.13.2.1 TR34Command <TR34Cmd>

*Presence:* [0..1]

*Definition:* Specific TR34 command where the TRBlock is a TR34 block.

*Datatype:* "TR34Command1Code" on page 1310

CodeName	Name	Definition
BIND	Bind	TR34 bind operation.
HILR	HigherLevelRebind	TR34 Higher Level rebind operation.
HILU	HigherLevelUnbind	TR34 Higher Level unbind operation.
RBND	Rebind	TR34 rebind operation.
UBND	Unbind	TR34 unbind operation.

#### 5.4.3.4.2.13.2.2 TRBlock <TRBlck>

*Presence:* [0..1]

*Definition:* TR31 or TR34 data block.

*Datatype:* "Max100KBinary" on page 1270

#### 5.4.3.4.3 SignatureChoice <SgntrChc>

*Presence:* [0..1]

*Definition:* Element containing the signature

**SignatureChoice <SgntrChc>** contains one of the following **ATMSignature2Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>DigitalSignature</b> <DgtlSgntr>	[0..1]	±		111
Or}	<b>TRRelatedData</b> <TRRltdData>	[0..1]			111
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		111
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		112

#### 5.4.3.4.3.1 DigitalSignature <DgtlSgntr>

*Presence:* [0..1]

*Definition:* Digital signature of implicit data depending on the security scheme download procedure.

**DigitalSignature <DgtlSgntr>** contains the following elements (see "[ContentInformationType14](#)" on page 1234 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1235
	SignedData <SgndData>	[1..1]	±		1235

#### 5.4.3.4.3.2 TRRelatedData <TRRltdData>

*Presence:* [0..1]

*Definition:* The data block for a TR31 or TR34 block, where the block does not contain a key (for example the TR34 unbind which contains the signed authorization data).

**TRRelatedData <TRRltdData>** contains the following **TRRelatedData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TR34Command</b> <TR34Cmd>	[0..1]	CodeSet		111
	<b>TRBlock</b> <TRBlck>	[0..1]	Binary		112

#### 5.4.3.4.3.2.1 TR34Command <TR34Cmd>

*Presence:* [0..1]

*Definition:* Specific TR34 command where the TRBlock is a TR34 block.

*Datatype:* "TR34Command1Code" on page 1310

CodeName	Name	Definition
BIND	Bind	TR34 bind operation.
HILR	HigherLevelRebind	TR34 Higher Level rebind operation.
HILU	HigherLevelUnbind	TR34 Higher Level unbind operation.
RBND	Rebind	TR34 rebind operation.
UBND	Unbind	TR34 unbind operation.

**5.4.3.4.3.2.2 TRBlock <TRBlck>***Presence:* [0..1]*Definition:* TR31 or TR34 data block.*Datatype:* "Max100KBinary" on page 1270**5.4.3.5 Command <Cmd>***Presence:* [0..\*]*Definition:* Maintenance command to perform on the ATM.**Command <Cmd>** contains the following **ATMCommand13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		112
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		113
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		113
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		113
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		114

**5.4.3.5.1 Type <Tp>***Presence:* [1..1]*Definition:* Type of command to be performed by the ATM.*Datatype:* "ATMCommand6Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.



CodeName	Name	Definition
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

#### 5.4.3.5.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 5.4.3.5.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 5.4.3.5.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 5.4.3.5.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

### 5.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC or a digital signature.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		114
	<b>AuthenticatedData</b> <AuthntcdData>	[0..1]	±		115
	<b>SignedData</b> <SgndData>	[0..1]	±		115

#### 5.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 5.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [0..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

#### 5.4.4.3 SignedData <SgndData>

*Presence:* [0..1]

*Definition:* Data protected by a digital signatures.

**SignedData <SgndData>** contains the following elements (see "SignedData4" on page 1252 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

## 6 **caam.005.001.02** **ATMDiagnosticRequestV02**

### 6.1 **MessageDefinition Functionality**

The ATMDiagnosticRequest message is sent from an ATM to an acquirer to verify the availability of the acquirer. The acquirer will also validate that this ATM is a valid ATM for its particular network.

#### Outline

The ATMDiagnosticRequestV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDiagnosticRequest  
Encrypted body of the message.
- C. ATMDiagnosticRequest  
Information related to the request of a diagnostic from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 6.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDgnstcReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			119
	<b>MessageFunction</b> <MsgFctn>	[1..1]			119
	<b>Function</b> <Fctn>	[1..1]	CodeSet		120
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		121
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		121
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		121
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		121
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		121
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		122
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		122
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		122
	<b>Traceability</b> <Tracblt>	[0..*]			122
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		122
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		123
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		123
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		123
	<b>ProtectedATMDiagnosticRequest</b> <PrctcdATMDgnstcReq>	[0..1]	±		123
	<b>ATMDiagnosticRequest</b> <ATMDgnstcReq>	[0..1]			123
	<b>Environment</b> <Envt>	[1..1]			124
	<b>Acquirer</b> <Acqrr>	[0..1]	±		124
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		124
	<b>ATM</b> <ATM>	[1..1]	±		124
	<b>ATMGlobalStatus</b> <ATMGblSts>	[1..1]			125
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		125
	<b>DemandedStatus</b> <DmnddSts>	[0..1]	CodeSet		125
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			125
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		126
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		126

## 6.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 6.3.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			119
	<b>Function</b> <Fctn>	[1..1]	CodeSet		120
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		121
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		121
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		121
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		121
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		121
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		122
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		122
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		122
	<b>Traceability</b> <Tracblt>	[0..*]			122
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		122
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		123
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		123
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		123

#### 6.3.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		120
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		121
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		121

**6.3.1.1.1 Function <Fctn>***Presence:* [1..1]*Definition:* Type of requested function.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.



CodeName	Name	Definition
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 6.3.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 6.3.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 6.3.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 6.3.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		122
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		123
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		123
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		123

##### 6.3.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 6.3.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 6.3.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 6.3.1.8.4 TraceDateTimeout <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 6.3.2 ProtectedATMDiagnosticRequest <PrtctdATMDgnstcReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDiagnosticRequest <PrtctdATMDgnstcReq>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 6.3.3 ATMDiagnosticRequest <ATMDgnstcReq>

*Presence:* [0..1]

*Definition:* Information related to the request of a diagnostic from an ATM.

**ATMDiagnosticRequest <ATMDgnstcReq>** contains the following **ATMDiagnosticRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment &lt;Envt&gt;</b>	[1..1]			124
	<b>Acquirer &lt;Acqrr&gt;</b>	[0..1]	±		124
	<b>ATMManagerIdentification &lt;ATMMgrld&gt;</b>	[0..1]	Text		124
	<b>ATM &lt;ATM&gt;</b>	[1..1]	±		124
	<b>ATMGlobalStatus &lt;ATMGblSts&gt;</b>	[1..1]			125
	<b>CurrentStatus &lt;CurSts&gt;</b>	[1..1]	CodeSet		125
	<b>DemandedStatus &lt;DmnddSts&gt;</b>	[0..1]	CodeSet		125

### 6.3.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the ATM.

**Environment <Envt>** contains the following **ATMEnvironment9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer &lt;Acqrr&gt;</b>	[0..1]	±		124
	<b>ATMManagerIdentification &lt;ATMMgrld&gt;</b>	[0..1]	Text		124
	<b>ATM &lt;ATM&gt;</b>	[1..1]	±		124

#### 6.3.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 6.3.3.1.2 ATMManagerIdentification <ATMMgrld>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 6.3.3.1.3 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine7" on page 1192 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1192
	AdditionalIdentification <AddtlId>	[0..1]	Text		1192
	SequenceNumber <SeqNb>	[0..1]	Text		1193

### 6.3.3.2 ATMGlobalStatus <ATMGblSts>

*Presence:* [1..1]

*Definition:* Global status of the ATM.

**ATMGlobalStatus <ATMGblSts>** contains the following **ATMStatus1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrentStatus</b> <CurSts>	[1..1]	CodeSet		125
	<b>DemandedStatus</b> <DmnddSts>	[0..1]	CodeSet		125

#### 6.3.3.2.1 CurrentStatus <CurSts>

*Presence:* [1..1]

*Definition:* Actual status of the ATM.

*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

#### 6.3.3.2.2 DemandedStatus <DmnddSts>

*Presence:* [0..1]

*Definition:* Present if the status required by the ATM manager is different from the current status.

*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

### 6.3.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		126
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		126

#### 6.3.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 6.3.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **7      caam.006.001.02 ATMDiagnosticResponseV02**

## **7.1      MessageDefinition Functionality**

The ATMDiagnosticResponse message is sent by an acquirer to an ATM in response to an ATMDiagnosticRequest message ensuring the availability and the validity of the parameters.

### Outline

The ATMDiagnosticResponseV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDiagnosticResponse  
Encrypted body of the message.
- C. ATMDiagnosticResponse  
Information related to the response of a diagnostic from an ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 7.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDgnstcRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			129
	<b>MessageFunction</b> <MsgFctn>	[1..1]			130
	<b>Function</b> <Fctn>	[1..1]	CodeSet		130
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		132
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		132
	<b>ProtocolVersion</b> <PrctolVrsn>	[1..1]	Text		132
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		132
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		132
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		132
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		133
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		133
	<b>Traceability</b> <Tracblt>	[0..*]			133
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		133
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		133
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		134
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		134
	<b>ProtectedATMDiagnosticResponse</b> <PrctcdATMDgnstcRspn>	[0..1]	±		134
	<b>ATMDiagnosticResponse</b> <ATMDgnstcRspn>	[0..1]			134
	<b>Environment</b> <Envt>	[1..1]			135
	<b>Acquirer</b> <Acqrr>	[0..1]	±		135
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		136
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		136
	<b>ATM</b> <ATM>	[1..1]	±		136
	<b>Command</b> <Cmd>	[0..*]			138
	<b>Type</b> <Tp>	[1..1]	CodeSet		138
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		138
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		139
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		139
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		139



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			140
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		140
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		140

## 7.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 7.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 7.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			130
	<b>Function</b> <Fctn>	[1..1]	CodeSet		130
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		132
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		132
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		132
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		132
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		132
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		132
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		133
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		133
	<b>Traceability</b> <Tracblt>	[0..*]			133
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		133
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		133
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		134
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		134

#### 7.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		130
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		132
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		132

##### 7.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 7.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 7.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 7.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 7.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 7.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 7.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 7.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 7.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 7.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		133
	SequenceNumber <SeqNb>	[0..1]	Text		133
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		134
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		134

##### 7.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 7.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 7.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 7.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 7.4.2 ProtectedATMDiagnosticResponse <PrtctdATMDgnstcRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDiagnosticResponse <PrtctdATMDgnstcRspn>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 7.4.3 ATMDiagnosticResponse <ATMDgnstcRspn>

*Presence:* [0..1]

*Definition:* Information related to the response of a diagnostic from an ATM manager.

**ATMDiagnosticResponse <ATMDgnstcRspn>** contains the following **ATMDiagnosticResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment &lt;Envt&gt;</b>	[1..1]			135
	<b>Acquirer &lt;Acqrr&gt;</b>	[0..1]	±		135
	<b>ATMManagerIdentification &lt;ATMMgrld&gt;</b>	[0..1]	Text		136
	<b>HostingEntity &lt;HstgNtty&gt;</b>	[0..1]	±		136
	<b>ATM &lt;ATM&gt;</b>	[1..1]	±		136
	<b>Command &lt;Cmd&gt;</b>	[0..*]			138
	<b>Type &lt;Tp&gt;</b>	[1..1]	CodeSet		138
	<b>Urgency &lt;Urgcy&gt;</b>	[1..1]	CodeSet		138
	<b>DateTime &lt;DtTm&gt;</b>	[0..1]	DateTime		139
	<b>CommandIdentification &lt;CmdId&gt;</b>	[0..1]	±		139
	<b>CommandParameters &lt;CmdParams&gt;</b>	[0..1]	±		139

#### 7.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the ATM.

**Environment <Envt>** contains the following **ATMEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer &lt;Acqrr&gt;</b>	[0..1]	±		135
	<b>ATMManagerIdentification &lt;ATMMgrld&gt;</b>	[0..1]	Text		136
	<b>HostingEntity &lt;HstgNtty&gt;</b>	[0..1]	±		136
	<b>ATM &lt;ATM&gt;</b>	[1..1]	±		136

##### 7.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AcquiringInstitution &lt;AcqrgInstn&gt;</b>	[0..1]	Text		1166
	<b>Branch &lt;Brnch&gt;</b>	[0..1]	Text		1166

**7.4.3.1.2 ATMManagerIdentification <ATMMgrId>**

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

**7.4.3.1.3 HostingEntity <HstgNtty>**

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**7.4.3.1.4 ATM <ATM>**

*Presence:* [1..1]

*Definition:* ATM information.



**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine5" on page 1213 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1215
	AdditionalIdentification <AddtlId>	[0..1]	Text		1215
	SequenceNumber <SeqNb>	[0..1]	Text		1215
	BaseCurrency <BaseCcy>	[1..1]	CodeSet	C1	1215
	Location <Lctn>	[0..1]			1215
	AddressLine <AdrLine>	[0..2]	Text		1216
	StreetName <StrtNm>	[0..1]	Text		1216
	BuildingNumber <BldgNb>	[0..1]	Text		1216
	PostCode <PstCd>	[0..1]	Text		1216
	TownName <TwnNm>	[1..1]	Text		1217
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1217
	Country <Ctry>	[1..1]	CodeSet	C1	1217
	GeoLocation <GLctn>	[0..1]			1217
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1217
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218
Or}	UTMCoordinates <UTMCordints>	[1..1]			1218
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1219
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1219
	Equipment <Eqpmnt>	[0..1]			1219
	Manufacturer <Manfctr>	[0..1]	Text		1219
	Model <Mdl>	[0..1]	Text		1220
	SerialNumber <SrlNb>	[0..1]	Text		1220
	ApplicationProvider <AppIPrvdr>	[0..1]	Text		1220
	ApplicationName <AppINm>	[0..1]	Text		1220
	ApplicationVersion <AppIVrsn>	[0..1]	Text		1220
	ApprovalNumber <ApprvINb>	[0..1]	Text		1220
	ConfigurationParameter <CfgrtnParam>	[0..*]			1220
	Type <Tp>	[1..1]	CodeSet		1220

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[1..1]	Text		1221
	OutOfServiceDevice <OutOfSvcDvc>	[0..*]	CodeSet		1221
	MessageProtection <MsgPrtcn>	[0..1]	CodeSet		1222

#### 7.4.3.2 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		138
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		138
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		139
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		139
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		139

##### 7.4.3.2.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

##### 7.4.3.2.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

Datatype: "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 7.4.3.2.3 DateTime <DtTm>

Presence: [0..1]

Definition: Date time on which the command must be performed.

Datatype: "ISODatetime" on page 1312

#### 7.4.3.2.4 CommandIdentification <CmdId>

Presence: [0..1]

Definition: Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 7.4.3.2.5 CommandParameters <CmdParams>

Presence: [0..1]

Definition: Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 7.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		140
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		140

### 7.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 7.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **8        caam.007.001.01          HostToATMRequestV01**

### **8.1      MessageDefinition Functionality**

The HostToATMRequest message is sent by a host to an ATM to request the ATM to contact a host by sending of a maintenance messages.

Outline

The HostToATMRequestV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

A. Header

Information related to the protocol management on a segment of the path from the ATM to the acquirer.

B. ProtectedHostToATMRequest

Encrypted body of the message.

C. HostToATMRequest

Information related to the request to an ATM to contact the ATM manager.

D. SecurityTrailer

Trailer of the message containing a MAC.

## 8.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <HstToATMReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			143
	<b>MessageFunction</b> <MsgFctn>	[1..1]			143
	<b>Function</b> <Fctn>	[1..1]	CodeSet		144
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		145
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		145
	<b>ProtocolVersion</b> <PrctolVrsn>	[1..1]	Text		145
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		145
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		145
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		145
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		145
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		146
	<b>Traceability</b> <Tracblt>	[0..*]			146
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		146
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		146
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		146
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		147
	<b>ProtectedHostToATMRequest</b> <PrctcdHstToATMReq>	[0..1]	±		147
	<b>HostToATMRequest</b> <HstToATMReq>	[0..1]			147
	<b>Environment</b> <Envt>	[1..1]			147
	<b>Acquirer</b> <Acqrr>	[0..1]	±		148
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		148
	<b>ATM</b> <ATM>	[1..1]	±		148
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		148
	<b>ExpectedMessageFunction</b> <XpctdMsgFctn>	[1..1]	CodeSet		148
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			149
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		149
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		149

## 8.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 8.3.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			143
	<b>Function</b> <Fctn>	[1..1]	CodeSet		144
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		145
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		145
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		145
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		145
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		145
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		145
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		145
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		146
	<b>Traceability</b> <Tracblt>	[0..*]			146
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		146
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		146
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		146
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		147

#### 8.3.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		144
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		145
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		145

**8.3.1.1.1 Function <Fctn>***Presence:* [1..1]*Definition:* Type of requested function.*Datatype:* "MessageFunction7Code" on page 1301

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.



CodeName	Name	Definition
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

#### 8.3.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 8.3.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 8.3.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 8.3.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 8.3.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 8.3.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### 8.3.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

### 8.3.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 8.3.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		146
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		146
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		146
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		147

#### 8.3.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 8.3.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 8.3.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 8.3.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 8.3.2 ProtectedHostToATMRequest <PrtctdHstToATMReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedHostToATMRequest <PrtctdHstToATMReq>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 8.3.3 HostToATMRequest <HstToATMReq>

*Presence:* [0..1]

*Definition:* Information related to the request to an ATM to contact the ATM manager.

**HostToATMRequest <HstToATMReq>** contains the following **HostToATMRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			147
	Acquirer <Acqrr>	[0..1]	±		148
	ATMManagerIdentification <ATMMgrld>	[0..1]	Text		148
	ATM <ATM>	[1..1]	±		148
	CommandIdentification <Cmdld>	[0..1]	±		148
	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		148

#### 8.3.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the ATM.

**Environment <Envt>** contains the following **ATMEnvironment9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		148
	ATMManagerIdentification <ATMMgrld>	[0..1]	Text		148
	ATM <ATM>	[1..1]	±		148

**8.3.3.1.1 Acquirer <Acqrr>***Presence:* [0..1]*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.**Acquirer <Acqrr>** contains the following elements (see "[Acquirer7](#)" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**8.3.3.1.2 ATMMManagerIdentification <ATMMgrId>***Presence:* [0..1]*Definition:* Identification of the ATM manager.*Datatype:* "[Max35Text](#)" on page 1317**8.3.3.1.3 ATM <ATM>***Presence:* [1..1]*Definition:* ATM information.**ATM <ATM>** contains the following elements (see "[AutomatedTellerMachine7](#)" on page 1192 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1192
	AdditionalIdentification <AddtlId>	[0..1]	Text		1192
	SequenceNumber <SeqNb>	[0..1]	Text		1193

**8.3.3.2 CommandIdentification <CmdId>***Presence:* [0..1]*Definition:* Identification of the entity issuing the command.**CommandIdentification <CmdId>** contains the following elements (see "[ATMCommandIdentification1](#)" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

**8.3.3.3 ExpectedMessageFunction <XpctdMsgFctn>***Presence:* [1..1]*Definition:* Message that have to be sent by the ATM.*Datatype:* "[MessageFunction8Code](#)" on page 1302

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
GSTS	ATMGlobalStatus	Global status of the ATM.
DSEC	SecurityDetails	Security detailed report.
INQC	CountersInquiry	Request the value of the ATM counters.
KEYQ	KeyExchangeRequest	Request of a key exchange.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

### 8.3.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		149
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		149

#### 8.3.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 8.3.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## 9      **caam.008.001.01** **HostToATMAcknowledgementV01**

### 9.1    **MessageDefinition Functionality**

The HostToATMAcknowledgement message is sent by an ATM to a host to acknowledge the receipt of a HostToATMRequest message.

#### Outline

The HostToATMAcknowledgementV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedHostToATMAcknowledgement  
Encrypted body of the message.
- C. HostToATMAcknowledgement  
Information related to the acknowledgement from an ATM to contact the ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 9.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <HstToATMAck>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			153
	<b>MessageFunction</b> <MsgFctn>	[1..1]			153
	<b>Function</b> <Fctn>	[1..1]	CodeSet		153
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		155
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		155
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		155
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		155
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		155
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		155
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		155
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		155
	<b>Traceability</b> <Tracblt>	[0..*]			156
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		156
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		156
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		156
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		156
	<b>ProtectedHostToATMAcknowledgement</b> <PrctcdHstToATMAck>	[0..1]	±		157
	<b>HostToATMAcknowledgement</b> <HstToATMAck>	[0..1]			157
	<b>Environment</b> <Envnt>	[1..1]			157
	<b>Acquirer</b> <Acqrr>	[0..1]	±		157
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		158
	<b>ATM</b> <ATM>	[1..1]	±		158
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			158
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		158
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		159

## 9.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.



## 9.3.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			153
	<b>Function</b> <Fctn>	[1..1]	CodeSet		153
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		155
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		155
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		155
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		155
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		155
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		155
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		155
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		155
	<b>Traceability</b> <Tracblt>	[0..*]			156
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		156
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		156
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		156
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		156

### 9.3.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		153
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		155
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		155

#### 9.3.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

Datatype: "MessageFunction7Code" on page 1301

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMIquiryRequest	Request for an inquiry.
INQP	ATMIquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

#### 9.3.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 9.3.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 9.3.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 9.3.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 9.3.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 9.3.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### 9.3.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

#### 9.3.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 9.3.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		156
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		156
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		156
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		156

#### 9.3.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 9.3.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 9.3.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 9.3.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

## 9.3.2 ProtectedHostToATMAcknowledgement <PrtctdHstToATMAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedHostToATMAcknowledgement <PrtctdHstToATMAck>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

## 9.3.3 HostToATMAcknowledgement <HstToATMAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement from an ATM to contact the ATM manager.

**HostToATMAcknowledgement <HstToATMAck>** contains the following **HostToATMAcknowledgement1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			157
	Acquirer <Acqrr>	[0..1]	±		157
	ATMManagerIdentification <ATMMgrld>	[0..1]	Text		158
	ATM <ATM>	[1..1]	±		158

### 9.3.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the ATM.

**Environment <Envt>** contains the following **ATMEnvironment9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		157
	ATMManagerIdentification <ATMMgrld>	[0..1]	Text		158
	ATM <ATM>	[1..1]	±		158

#### 9.3.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 9.3.3.1.2 ATMMManagerIdentification <ATMMgrId>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 9.3.3.1.3 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine7" on page 1192 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1192
	AdditionalIdentification <AddtlId>	[0..1]	Text		1192
	SequenceNumber <SeqNb>	[0..1]	Text		1193

### 9.3.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		158
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		159

#### 9.3.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 9.3.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **10      caam.009.001.02**

## **ATMReconciliationAdviceV02**

### **10.1    MessageDefinition Functionality**

The ATMReconciliationAdvice message is sent by an ATM to an acquirer or its agent to send all the counters of the ATM. It can be sent by an operator function or as a response of a command sent by an agent or a server.

#### Outline

The ATMReconciliationAdviceV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMReconciliationAdvice  
Encrypted body of the message.
- C. ATMReconciliationAdvice  
Information related to the reconciliation of an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.



## 10.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMRcncltnAdv>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			163
	<b>MessageFunction</b> <MsgFctn>	[1..1]			164
	<b>Function</b> <Fctn>	[1..1]	CodeSet		164
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		166
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		166
	<b>ProtocolVersion</b> <PrctolVrsn>	[1..1]	Text		166
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		166
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		166
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		167
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		167
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		167
	<b>ProcessState</b> <PrctStat>	[0..1]	Text		167
	<b>Traceability</b> <Tracblt>	[0..*]			167
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		167
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		168
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		168
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		168
	<b>ProtectedATMReconciliationAdvice</b> <PrctcdATMRcncltnAdv>	[0..1]	±		168
	<b>ATMReconciliationAdvice</b> <ATMRcncltnAdv>	[0..1]			168
	<b>Environment</b> <Envnt>	[1..1]			170
	<b>Acquirer</b> <Acqrr>	[0..1]	±		170
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		171
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		171
	<b>ATM</b> <ATM>	[1..1]	±		171
	<b>CommandResult</b> <CmdRslt>	[0..*]			173
	<b>Type</b> <Tp>	[1..1]	CodeSet		173
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		173
	<b>ProcessedDateTime</b> <PrctdDtTm>	[1..1]	DateTime		173
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		173

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Result</b> <Rslt>	[1..1]	CodeSet		174
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		174
	<b>CommandContext</b> <CmdCntxt>	[0..1]			174
	<b>Type</b> <Tp>	[1..1]	CodeSet		175
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		175
	<b>Transaction</b> <Tx>	[1..1]			175
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		177
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		177
	<b>ReconciliationIdentification</b> <RcncltnId>	[1..1]	Text		177
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		177
	<b>Cassette</b> <Csstt>	[0..*]			178
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		179
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		179
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		180
	<b>Type</b> <Tp>	[1..1]	CodeSet		180
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		180
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		180
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			181
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		181
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	181
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		182
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		182
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		182
	<b>FlowTotals</b> <FlowTtls>	[0..*]			182
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184
	<b>TransactionTotals</b> <TxTtls>	[0..*]	±		184
	<b>RetainedCard</b> <RtndCard>	[0..1]	Quantity		185
	<b>AdditionalTransactionInformation</b> <AddtlTxInf>	[0..1]	Text		185
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			185
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		185
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		186

## 10.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 10.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 10.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			164
	<b>Function</b> <Fctn>	[1..1]	CodeSet		164
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		166
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		166
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		166
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		166
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		166
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		167
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		167
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		167
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		167
	<b>Traceability</b> <Tracblt>	[0..*]			167
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		167
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		168
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		168
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		168

#### 10.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		164
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		166
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		166

##### 10.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 10.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 10.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 10.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 10.4.1.3 ExchangeIdentification <Xchgld>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 10.4.1.4 ReTransmissionCounter <ReTrnsmssnCntr>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

#### 10.4.1.5 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 10.4.1.6 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### 10.4.1.7 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

#### 10.4.1.8 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

#### 10.4.1.9 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		167
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		168
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		168
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		168

##### 10.4.1.9.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 10.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 10.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 10.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 10.4.2 ProtectedATMReconciliationAdvice <PrtctdATMRcncltnAdv>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMReconciliationAdvice <PrtctdATMRcncltnAdv>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 10.4.3 ATMReconciliationAdvice <ATMRcncltnAdv>

*Presence:* [0..1]

*Definition:* Information related to the reconciliation of an ATM.



**ATMReconciliationAdvice <ATMRcncltnAdv>** contains the following **ATMReconciliationAdvice2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			170
	<b>Acquirer</b> <Acqrr>	[0..1]	±		170
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		171
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		171
	<b>ATM</b> <ATM>	[1..1]	±		171
	<b>CommandResult</b> <CmdRslt>	[0..*]			173
	<b>Type</b> <Tp>	[1..1]	CodeSet		173
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		173
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		173
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		173
	<b>Result</b> <Rslt>	[1..1]	CodeSet		174
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		174
	<b>CommandContext</b> <CmdCntxt>	[0..1]			174
	<b>Type</b> <Tp>	[1..1]	CodeSet		175
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		175
	<b>Transaction</b> <Tx>	[1..1]			175
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		177
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		177
	<b>ReconciliationIdentification</b> <Rcncltnld>	[1..1]	Text		177
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		177
	<b>Cassette</b> <Csst>	[0..*]			178
	<b>PhysicalIdentification</b> <Physld>	[0..1]	Text		179
	<b>LogicalIdentification</b> <Logclld>	[1..1]	Text		179
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		180
	<b>Type</b> <Tp>	[1..1]	CodeSet		180
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		180
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		180
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			181
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		181
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	181

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		182
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		182
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		182
	<b>FlowTotals</b> <FlowTtls>	[0..*]			182
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstddNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184
	<b>TransactionTotals</b> <TxTtls>	[0..*]	±		184
	<b>RetainedCard</b> <RtndCard>	[0..1]	Quantity		185
	<b>AdditionalTransactionInformation</b> <AddtlTxInf>	[0..1]	Text		185

#### 10.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the ATM.

**Environment <Envt>** contains the following **ATMEnvironment10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		170
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		171
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		171
	<b>ATM</b> <ATM>	[1..1]	±		171

##### 10.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the ATM transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 10.4.3.1.2 ATMMManagerIdentification <ATMMgrId>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 10.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 10.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine8" on page 1184 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1186
	AdditionalIdentification <AddtlId>	[0..1]	Text		1186
	SequenceNumber <SeqNb>	[0..1]	Text		1186
	BaseCurrency <BaseCcy>	[1..1]	CodeSet	C1	1186
	Location <Lctn>	[0..1]			1186
	AddressLine <AdrLine>	[0..2]	Text		1187
	StreetName <StrtNm>	[0..1]	Text		1187
	BuildingNumber <BldgNb>	[0..1]	Text		1187
	PostCode <PstCd>	[0..1]	Text		1187
	TownName <TwnNm>	[1..1]	Text		1188
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1188
	Country <Ctry>	[1..1]	CodeSet	C1	1188
	GeoLocation <GLctn>	[0..1]			1188
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1188
	Latitude <Lat>	[1..1]	Text		1189
	Longitude <Long>	[1..1]	Text		1189
Or}	UTMCoordinates <UTMCordints>	[1..1]			1189
	UTMZone <UTMZone>	[1..1]	Text		1189
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1189
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1190
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1190
	Equipment <Eqpmnt>	[0..1]			1190
	Manufacturer <Manfctr>	[0..1]	Text		1190
	Model <Mdl>	[0..1]	Text		1191
	SerialNumber <SrlNb>	[0..1]	Text		1191
	ApplicationProvider <AppIPrvdr>	[0..1]	Text		1191
	ApplicationName <AppINm>	[0..1]	Text		1191
	ApplicationVersion <AppIVrsn>	[0..1]	Text		1191
	ApprovalNumber <ApprvINb>	[0..1]	Text		1191
	ConfigurationParameter <CfgrtnParam>	[0..*]			1191
	Type <Tp>	[1..1]	CodeSet		1191

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[1..1]	Text		1192

#### 10.4.3.2 CommandResult <CmdRslt>

*Presence:* [0..\*]

*Definition:* Command result for reinitialisation of the transaction counters.

**CommandResult <CmdRslt>** contains the following **ATMCommand8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		173
	<b>RequiredDateTime</b> <ReqrdDtTm>	[0..1]	DateTime		173
	<b>ProcessedDateTime</b> <PrcdDtTm>	[1..1]	DateTime		173
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		173
	<b>Result</b> <Rslt>	[1..1]	CodeSet		174
	<b>AdditionalErrorInformation</b> <AddtlErrInf>	[0..1]	Text		174

##### 10.4.3.2.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand5Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
CCNT	CountersInquiry	Request the value of the ATM counters.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

##### 10.4.3.2.2 RequiredDateTime <ReqrdDtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command has been requested to be performed.

*Datatype:* "ISODateTime" on page 1312

##### 10.4.3.2.3 ProcessedDateTime <PrcdDtTm>

*Presence:* [1..1]

*Definition:* Date time on which the command has been performed.

*Datatype:* "ISODateTime" on page 1312

##### 10.4.3.2.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 10.4.3.2.5 Result <RsIt>

*Presence:* [1..1]

*Definition:* Final result of the processed command at the ATM.

*Datatype:* "TerminalManagementActionResult2Code" on page 1310

CodeName	Name	Definition
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
HRDW	Hardware	Hardware error.
NSUP	NotSupported	Action is not supported.
SECR	Security	Security error.
SUCC	Success	Action was successfully performed.
SYNE	SyntaxError	Data transferred has a wrong syntax.
TIMO	Timeout	Timeout expired during the data transfer.
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.

#### 10.4.3.2.6 AdditionalErrorInformation <AddtlErrInf>

*Presence:* [0..1]

*Definition:* Additional information on the failure to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 10.4.3.3 CommandContext <CmdCntxt>

*Presence:* [0..1]

*Definition:* Party which has requested the reconciliation.

**CommandContext <CmdCntxt>** contains the following **ATMCommand9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		175
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		175

#### 10.4.3.3.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand5Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
CCNT	CountersInquiry	Request the value of the ATM counters.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 10.4.3.3.2 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 10.4.3.4 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Information about the reconciliation request.

**Transaction <Tx>** contains the following **ATMTransaction25** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		177
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		177
	<b>ReconciliationIdentification</b> <RcncltnId>	[1..1]	Text		177
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		177
	<b>Cassette</b> <Csstt>	[0..*]			178
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		179
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		179
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		180
	<b>Type</b> <Tp>	[1..1]	CodeSet		180
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		180
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		180
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			181
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		181
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	181
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		182
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		182
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		182
	<b>FlowTotals</b> <FlowTtls>	[0..*]			182
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184
	<b>TransactionTotals</b> <TxTtls>	[0..*]	±		184
	<b>RetainedCard</b> <RtnCard>	[0..1]	Quantity		185
	<b>AdditionalTransactionInformation</b> <AddtlTxInf>	[0..1]	Text		185



**10.4.3.4.1 TypeOfOperation <TpOfOpr>***Presence:* [0..1]*Definition:* Type of logical or physical operation on the ATM for which the counters are computed.*Datatype:* "ATMOperation1Code" on page 1282

CodeName	Name	Definition
ADJU	Adjust	Adjust logical counters of the cassette.
INSR	InsertMedia	Add physically media to cassette.
LOAD	Loading	Loading cassette.
REMV	RemoveMedia	Substract physically media from cassette.
UNLD	Unloading	Unloading cassette.

**10.4.3.4.2 TransactionIdentification <TxId>***Presence:* [1..1]*Definition:* Identification of the reconciliation transaction.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

**10.4.3.4.3 ReconciliationIdentification <RcncltnId>***Presence:* [1..1]*Definition:* Identification of the reconciliation period.*Datatype:* "Max35Text" on page 1317**10.4.3.4.4 ATMTotals <ATMTtls>***Presence:* [0..\*]*Definition:* Current totals of the ATM.

**ATMTotals <ATMTtls>** contains the following elements (see "ATMTotals1" on page 1182 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MediaType <MdiaTp>	[0..1]	CodeSet		1182
	Currency <Ccy>	[0..1]	CodeSet	C1	1183
	ATMBalance <ATMBal>	[0..1]	Amount		1183
	ATMCurrent <ATMCur>	[0..1]	Amount		1183
	ATMBalanceNumber <ATMBalNb>	[0..1]	Quantity		1183
	ATMCurrentNumber <ATMCurNb>	[0..1]	Quantity		1183

#### 10.4.3.4.5 Cassette <Csstt>

*Presence:* [0..\*]

*Definition:* Information on the cassette of the ATM.

**Cassette <Csst>** contains the following **ATMCassette2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		179
	<b>LogicalIdentification</b> <LogcId>	[1..1]	Text		179
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		180
	<b>Type</b> <Tp>	[1..1]	CodeSet		180
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		180
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		180
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			181
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		181
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	181
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		182
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		182
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		182
	<b>FlowTotals</b> <FlowTtls>	[0..*]			182
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184

#### 10.4.3.4.5.1 PhysicalIdentification <PhysId>

*Presence:* [0..1]

*Definition:* Physical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 10.4.3.4.5.2 LogicalIdentification <LogcId>

*Presence:* [1..1]

*Definition:* Logical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

**10.4.3.4.5.3 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number or unique identification of the cassette hardware.*Datatype:* "Max35Text" on page 1317**10.4.3.4.5.4 Type <Tp>***Presence:* [1..1]*Definition:* Type of cassette.*Datatype:* "ATMCassetteType1Code" on page 1276

CodeName	Name	Definition
DPST	In	Cassette for deposits.
DISP	Out	Cassette for dispense.
RCYC	Recycling	Cassette for recycling.
RJCT	Reject	Cassette for reject.
RPLT	Replenishment	Cassette for replenishment.
RTRC	Retract	Cassette for retract.

**10.4.3.4.5.5 SubType <SubTp>***Presence:* [0..\*]*Definition:* Type of items the cash-in takes*Datatype:* "ATMNoteType1Code" on page 1282

CodeName	Name	Definition
ALLT	All	All fit bank note types.
CNTR	Counterfeit	Detected counterfeit notes.
IDVD	Individual	All types of fit bank notes specified in an individual list.
SCNT	SuspectedCounterfeit	Suspected counterfeit notes.
UNFT	Unfit	Unfit bank notes (unacceptable quality).

**10.4.3.4.5.6 MediaType <MdiaTp>***Presence:* [0..1]*Definition:* Type of media inside the cassette.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.

CodeName	Name	Definition
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

#### 10.4.3.4.5.7 MediaCounters <MdiaCntrs>

*Presence:* [0..\*]

*Definition:* Counter per unit value or globally.

**MediaCounters <MdiaCntrs>** contains the following **ATMCassetteCounters3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		181
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	181
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		182
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		182
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		182
	<b>FlowTotals</b> <FlowTtls>	[0..*]			182
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstddNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184

##### 10.4.3.4.5.7.1 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount of one media unit, if the media type is valued.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 10.4.3.4.5.7.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the media, if the media type is valued and different from the currency of the requested amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **10.4.3.4.5.7.3 MediaCategory <MdiaCtgy>**

*Presence:* [0..1]

*Definition:* Category of media items.

*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### **10.4.3.4.5.7.4 CurrentNumber <CurNb>**

*Presence:* [1..1]

*Definition:* Current number of media present in the cassette.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.5 CurrentAmount <CurAmt>**

*Presence:* [0..1]

*Definition:* Current amount in the cassette.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### **10.4.3.4.5.7.6 FlowTotals <FlowTtls>**

*Presence:* [0..\*]

*Definition:* Counters of media inside the cassette.

**FlowTotals <FlowTtls>** contains the following **ATMCassetteCounters4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		183
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		183
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		183
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		183
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		184
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		184
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		184
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		184
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		184

#### 10.4.3.4.5.7.6.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of counters.

*Datatype:* "ATMCounterType1Code" on page 1279

CodeName	Name	Definition
INQU	CountersInquiry	Counters since the last counters inquiry.
CTXN	CustomerTransaction	Counters for a customer transaction.
CTOF	CutOff	Counters since the last cut-off.
BDAY	BusinessDay	Counters since the beginning of the business day.
PRTN	Operation	Counters for an operation performed by an operator on the ATM.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

#### 10.4.3.4.5.7.6.2 AddedNumber <AddedNb>

*Presence:* [0..1]

*Definition:* Number of added media during servicing operations.

*Datatype:* "Number" on page 1314

#### 10.4.3.4.5.7.6.3 RemovedNumber <RmvdNb>

*Presence:* [0..1]

*Definition:* Number of removed media during servicing operations.

*Datatype:* "Number" on page 1314

#### 10.4.3.4.5.7.6.4 DispensedNumber <DspnsdNb>

*Presence:* [0..1]

*Definition:* Total number of media out of the cassette.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.6.5 DepositedNumber <DpstdNb>**

*Presence:* [0..1]

*Definition:* Total number of media deposited in the cassette.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.6.6 RecycledNumber <RcycldNb>**

*Presence:* [0..1]

*Definition:* Total number of recycled media from the cassette.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.6.7 RetractedNumber <RtrctdNb>**

*Presence:* [0..1]

*Definition:* Total number of retracted media originating from the cassette.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.6.8 RejectedNumber <RjctdNb>**

*Presence:* [0..1]

*Definition:* Total number of media from this cassette which are on the reject bin.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.5.7.6.9 PresentedNumber <PresntdNb>**

*Presence:* [0..1]

*Definition:* Total number of media presented to the customer.

*Datatype:* "Number" on page 1314

#### **10.4.3.4.6 TransactionTotals <TxTtls>**

*Presence:* [0..\*]

*Definition:* Transaction counters that are set to zero after a reconciliation with counter reinitialisation command.



**TransactionTotals <TxTtls>** contains the following elements (see "ATMTotals3" on page 1181 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1181
	AdditionalIdentification <AddtlId>	[0..1]	Text		1181
	Period <Prd>	[1..1]	CodeSet		1181
	Currency <Ccy>	[0..1]	CodeSet	C1	1182
	Count <Cnt>	[1..1]	Quantity		1182
	Amount <Amt>	[0..1]	Amount		1182

#### 10.4.3.4.7 RetainedCard <RtndCard>

*Presence:* [0..1]

*Definition:* Total number of retained cards.

*Datatype:* "Number" on page 1314

#### 10.4.3.4.8 AdditionalTransactionInformation <AddtlTxInf>

*Presence:* [0..1]

*Definition:* Additional information about reconciliation.

*Datatype:* "Max140Text" on page 1316

### 10.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		185
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		186

#### 10.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 10.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# 11      **caam.010.001.02**

## **ATMReconciliationAcknowledgementV02**

### **11.1    MessageDefinition Functionality**

The ATMReconciliationAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMReconciliationAdvice message.

#### Outline

The ATMReconciliationAcknowledgementV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMReconciliationAcknowledgement  
Encrypted body of the message.
- C. ATMReconciliationAcknowledgement  
Information related to the acknowledgement of an ATM reconciliation from the ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 11.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMRcncltnAck>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			190
	<b>MessageFunction</b> <MsgFctn>	[1..1]			191
	<b>Function</b> <Fctn>	[1..1]	CodeSet		191
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		193
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		193
	<b>ProtocolVersion</b> <PrctolVrsn>	[1..1]	Text		193
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		193
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		193
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		194
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		194
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		194
	<b>ProcessState</b> <PrctStat>	[0..1]	Text		194
	<b>Traceability</b> <Tracblt>	[0..*]			194
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		194
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		195
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		195
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		195
	<b>ProtectedATMReconciliationAcknowledgement</b> <PrctdATMRcncltnAck>	[0..1]	±		195
	<b>ATMReconciliationAcknowledgement</b> <ATMRcncltnAck>	[0..1]			195
	<b>ATM</b> <ATM>	[1..1]	±		198
	<b>Transaction</b> <Tx>	[1..1]			199
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		201
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		201
	<b>ReconciliationIdentification</b> <RcncltnId>	[1..1]	Text		201
	<b>TransactionResponse</b> <TxRspn>	[1..1]			201
	<b>Response</b> <Rspn>	[1..1]	CodeSet		202
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		202
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		206

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		206
	<b>Cassette</b> <Csstt>	[0..*]			206
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		207
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		207
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		208
	<b>Type</b> <Tp>	[1..1]	CodeSet		208
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		208
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		208
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			209
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		209
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	209
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		210
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		210
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		210
	<b>FlowTotals</b> <FlowTtls>	[0..*]			210
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212
	<b>Command</b> <Cmd>	[0..*]			212
	<b>Type</b> <Tp>	[1..1]	CodeSet		213
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		213
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		213
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		213
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		214
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			214

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		214
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		215

## 11.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 11.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 11.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			191
	<b>Function</b> <Fctn>	[1..1]	CodeSet		191
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		193
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		193
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		193
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		193
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		193
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		194
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		194
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		194
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		194
	<b>Traceability</b> <Tracblt>	[0..*]			194
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		194
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		195
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		195
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		195

#### 11.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		191
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		193
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		193

##### 11.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAP	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.



CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 11.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 11.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 11.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 11.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 11.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**11.4.1.5 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**11.4.1.6 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**11.4.1.7 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**11.4.1.8 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**11.4.1.9 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		194
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		195
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		195
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		195

**11.4.1.9.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlyId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 11.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 11.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 11.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 11.4.2 ProtectedATMReconciliationAcknowledgement <PrtctdATMRcncltnAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMReconciliationAcknowledgement <PrtctdATMRcncltnAck>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 11.4.3 ATMReconciliationAcknowledgement <ATMRcncltnAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement of an ATM reconciliation from the ATM manager.

**ATMReconciliationAcknowledgement <ATMRcncltnAck>** contains the following **ATMReconciliationAcknowledgement2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATM</b> <ATM>	[1..1]	±		198
	<b>Transaction</b> <Tx>	[1..1]			199
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		201
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		201
	<b>ReconciliationIdentification</b> <RcncltnId>	[1..1]	Text		201
	<b>TransactionResponse</b> <TxRspn>	[1..1]			201
	<b>Response</b> <Rspn>	[1..1]	CodeSet		202
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		202
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		206
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		206
	<b>Cassette</b> <Csstt>	[0..*]			206
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		207
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		207
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		208
	<b>Type</b> <Tp>	[1..1]	CodeSet		208
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		208
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		208
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			209
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		209
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	209
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		210
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		210
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		210
	<b>FlowTotals</b> <FlowTtls>	[0..*]			210
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212
	<b>Command</b> <Cmd>	[0..*]			212
	<b>Type</b> <Tp>	[1..1]	CodeSet		213
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		213
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		213
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		213
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		214

#### 11.4.3.1 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1227

#### 11.4.3.2 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Information about the reconciliation response.

**Transaction <Tx>** contains the following **ATMTransaction26** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TypeOfOperation</b> <TpOfOpr>	[0..1]	CodeSet		201
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		201
	<b>ReconciliationIdentification</b> <RcncltnId>	[1..1]	Text		201
	<b>TransactionResponse</b> <TxRspn>	[1..1]			201
	<b>Response</b> <Rspn>	[1..1]	CodeSet		202
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		202
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		206
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		206
	<b>Cassette</b> <Csstt>	[0..*]			206
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		207
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		207
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		208
	<b>Type</b> <Tp>	[1..1]	CodeSet		208
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		208
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		208
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			209
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		209
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	209
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		210
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		210
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		210
	<b>FlowTotals</b> <FlowTtls>	[0..*]			210
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Command</b> <Cmd>	[0..*]			212
	<b>Type</b> <Tp>	[1..1]	CodeSet		213
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		213
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		213
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		213
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		214

#### 11.4.3.2.1 TypeOfOperation <TpOfOpr>

*Presence:* [0..1]

*Definition:* Type of logical or physical operation on the ATM for which the counters are computed.

*Datatype:* "ATMOperation1Code" on page 1282

CodeName	Name	Definition
ADJU	Adjust	Adjust logical counters of the cassette.
INSR	InsertMedia	Add physically media to cassette.
LOAD	Loading	Loading cassette.
REMV	RemoveMedia	Substract physically media from cassette.
UNLD	Unloading	Unloading cassette.

#### 11.4.3.2.2 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the reconciliation transaction.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 11.4.3.2.3 ReconciliationIdentification <RcncltnId>

*Presence:* [1..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### 11.4.3.2.4 TransactionResponse <TxRspn>

*Presence:* [1..1]

*Definition:* Result of the reconciliation.

**TransactionResponse <TxRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		202
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		202
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		206

#### 11.4.3.2.4.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

#### 11.4.3.2.4.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.

CodeName	Name	Definition
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.

CodeName	Name	Definition
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).

CodeName	Name	Definition
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

**11.4.3.2.4.3 AdditionalResponseInformation <AddtlRspnInf>**

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

**11.4.3.2.5 ATMTotals <ATMTtls>**

*Presence:* [0..\*]

*Definition:* Current totals of the ATM.

**ATMTotals <ATMTtls>** contains the following elements (see "ATMTotals1" on page 1182 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MediaType <MdiaTp>	[0..1]	CodeSet		1182
	Currency <Ccy>	[0..1]	CodeSet	C1	1183
	ATMBalance <ATMBal>	[0..1]	Amount		1183
	ATMCurrent <ATMCur>	[0..1]	Amount		1183
	ATMBalanceNumber <ATMBalNb>	[0..1]	Quantity		1183
	ATMCurrentNumber <ATMCurNb>	[0..1]	Quantity		1183

**11.4.3.2.6 Cassette <Csstt>**

*Presence:* [0..\*]

*Definition:* Information on the cassettes of the ATM.

**Cassette <Csst>** contains the following **ATMCassette2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		207
	<b>LogicalIdentification</b> <LogcId>	[1..1]	Text		207
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		208
	<b>Type</b> <Tp>	[1..1]	CodeSet		208
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		208
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		208
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			209
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		209
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	209
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		210
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		210
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		210
	<b>FlowTotals</b> <FlowTtls>	[0..*]			210
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstndNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212

#### 11.4.3.2.6.1 PhysicalIdentification <PhysId>

*Presence:* [0..1]

*Definition:* Physical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 11.4.3.2.6.2 LogicalIdentification <LogcId>

*Presence:* [1..1]

*Definition:* Logical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

**11.4.3.2.6.3 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number or unique identification of the cassette hardware.*Datatype:* "Max35Text" on page 1317**11.4.3.2.6.4 Type <Tp>***Presence:* [1..1]*Definition:* Type of cassette.*Datatype:* "ATMCassetteType1Code" on page 1276

CodeName	Name	Definition
DPST	In	Cassette for deposits.
DISP	Out	Cassette for dispense.
RCYC	Recycling	Cassette for recycling.
RJCT	Reject	Cassette for reject.
RPLT	Replenishment	Cassette for replenishment.
RTRC	Retract	Cassette for retract.

**11.4.3.2.6.5 SubType <SubTp>***Presence:* [0..\*]*Definition:* Type of items the cash-in takes*Datatype:* "ATMNoteType1Code" on page 1282

CodeName	Name	Definition
ALLT	All	All fit bank note types.
CNTR	Counterfeit	Detected counterfeit notes.
IDVD	Individual	All types of fit bank notes specified in an individual list.
SCNT	SuspectedCounterfeit	Suspected counterfeit notes.
UNFT	Unfit	Unfit bank notes (unacceptable quality).

**11.4.3.2.6.6 MediaType <MdiaTp>***Presence:* [0..1]*Definition:* Type of media inside the cassette.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.



CodeName	Name	Definition
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

#### 11.4.3.2.6.7 MediaCounters <MdiaCntrs>

*Presence:* [0..\*]

*Definition:* Counter per unit value or globally.

**MediaCounters <MdiaCntrs>** contains the following **ATMCassetteCounters3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		209
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	209
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		210
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		210
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		210
	<b>FlowTotals</b> <FlowTtls>	[0..*]			210
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstddNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212

##### 11.4.3.2.6.7.1 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount of one media unit, if the media type is valued.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 11.4.3.2.6.7.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the media, if the media type is valued and different from the currency of the requested amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **11.4.3.2.6.7.3 MediaCategory <MdiaCtgy>**

*Presence:* [0..1]

*Definition:* Category of media items.

*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### **11.4.3.2.6.7.4 CurrentNumber <CurNb>**

*Presence:* [1..1]

*Definition:* Current number of media present in the cassette.

*Datatype:* "Number" on page 1314

#### **11.4.3.2.6.7.5 CurrentAmount <CurAmt>**

*Presence:* [0..1]

*Definition:* Current amount in the cassette.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### **11.4.3.2.6.7.6 FlowTotals <FlowTtls>**

*Presence:* [0..\*]

*Definition:* Counters of media inside the cassette.

**FlowTotals <FlowTtls>** contains the following **ATMCassetteCounters4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		211
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		211
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		211
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		211
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		212
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		212
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		212
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		212
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		212

#### 11.4.3.2.6.7.6.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of counters.

*Datatype:* "ATMCounterType1Code" on page 1279

CodeName	Name	Definition
INQU	CountersInquiry	Counters since the last counters inquiry.
CTXN	CustomerTransaction	Counters for a customer transaction.
CTOF	CutOff	Counters since the last cut-off.
BDAY	BusinessDay	Counters since the beginning of the business day.
PRTN	Operation	Counters for an operation performed by an operator on the ATM.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

#### 11.4.3.2.6.7.6.2 AddedNumber <AddedNb>

*Presence:* [0..1]

*Definition:* Number of added media during servicing operations.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.3 RemovedNumber <RmvdNb>

*Presence:* [0..1]

*Definition:* Number of removed media during servicing operations.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.4 DispensedNumber <DspnsdNb>

*Presence:* [0..1]

*Definition:* Total number of media out of the cassette.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.5 DepositedNumber <DpstdNb>

*Presence:* [0..1]

*Definition:* Total number of media deposited in the cassette.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.6 RecycledNumber <RcycldNb>

*Presence:* [0..1]

*Definition:* Total number of recycled media from the cassette.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.7 RetractedNumber <RtrctdNb>

*Presence:* [0..1]

*Definition:* Total number of retracted media originating from the cassette.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.8 RejectedNumber <RjctdNb>

*Presence:* [0..1]

*Definition:* Total number of media from this cassette which are on the reject bin.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.6.7.6.9 PresentedNumber <PresntdNb>

*Presence:* [0..1]

*Definition:* Total number of media presented to the customer.

*Datatype:* "Number" on page 1314

#### 11.4.3.2.7 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		213
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		213
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		213
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		213
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		214

**11.4.3.2.7.1 Type <Tp>***Presence:* [1..1]*Definition:* Type of command to be performed by the ATM.*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

**11.4.3.2.7.2 Urgency <Urgcy>***Presence:* [1..1]*Definition:* Urgency of the command.*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

**11.4.3.2.7.3 DateTime <DtTm>***Presence:* [0..1]*Definition:* Date time on which the command must be performed.*Datatype:* "ISODateTime" on page 1312**11.4.3.2.7.4 CommandIdentification <CmdId>***Presence:* [0..1]*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 11.4.3.2.7.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 11.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		214
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		215

### 11.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 11.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **12      caam.011.001.01**

### **ATMExceptionAdviceV01**

#### **12.1    MessageDefinition Functionality**

The ATMExceptionAdvice message is sent by an ATM to an acquirer or its agent to inform of that an exception occurred outside a service.

##### Outline

The ATMExceptionAdviceV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

A. Header

Information related to the protocol management on a segment of the path from the ATM to the acquirer.

B. ProtectedATMExceptionAdvice

Encrypted body of the message.

C. ATMExceptionAdvice

Information related to exceptions occurring on the ATM.

D. SecurityTrailer

Trailer of the message containing a MAC.



## 12.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <ATMXcptnAdv>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			221
	<b>MessageFunction</b> <MsgFctn>	[1..1]			222
	<b>Function</b> <Fctn>	[1..1]	CodeSet		222
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		223
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		223
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		223
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		224
	<b>ReTransmissionCounter</b> <ReTrnsmssnCnt>	[0..1]	Quantity		224
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		224
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		224
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		224
	<b>ProcessState</b> <PrclStat>	[0..1]	Text		224
	<b>Traceability</b> <Tracblt>	[0..*]			224
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		225
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		225
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		225
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		225
	<b>ProtectedATMExceptionAdvice</b> <PrctcdATMXcptnAdv>	[0..1]	±		225
	<b>ATMExceptionAdvice</b> <ATMXcptnAdv>	[0..1]			226
	<b>Environment</b> <Envnt>	[0..1]			230
	<b>Acquirer</b> <Acqrr>	[0..1]	±		233
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		233
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		233
	<b>ATM</b> <ATM>	[1..1]			234
	<b>Identification</b> <Id>	[1..1]	Text		236
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		236
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		236
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	236
	<b>Location</b> <Lctn>	[0..1]			237

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		237
	<b>StreetName</b> <StrtNm>	[0..1]	Text		238
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		238
	<b>PostCode</b> <PstCd>	[0..1]	Text		238
	<b>TownName</b> <TwnNm>	[1..1]	Text		238
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		238
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	238
	<b>GeoLocation</b> <GLctn>	[0..1]			238
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		240
	<b>Capabilities</b> <Cpblties>	[0..1]			240
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		241
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		241
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		242
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		242
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		242
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		242
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		243
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		243
	<b>DepositedMedia</b> <DpstlMdia>	[0..*]	CodeSet		243
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			243
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245
	<b>Equipment</b> <Eqpmnt>	[0..1]			245
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		245
	<b>Model</b> <Mdl>	[0..1]	Text		245
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		245
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		246
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		246
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		246
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		246
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			246
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247
	<b>Customer</b> <Cstmr>	[0..1]			247
	<b>Profile</b> <Prfl>	[0..1]			247
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		248
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		248
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		248
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	248
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			249
	<b>Method</b> <Mtd>	[1..1]	CodeSet		249
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		249
	<b>Result</b> <Rslt>	[0..1]	CodeSet		250
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		250
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		250
	<b>Card</b> <Card>	[0..1]			250
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		251
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		252
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		252
	<b>PlainCardData</b> <PlainCardData>	[0..1]			252
	<b>PAN</b> <PAN>	[0..1]	Text		253
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		253

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		253
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		253
	<b>Track1</b> <Trck1>	[0..1]	Text		253
	<b>Track2</b> <Trck2>	[0..1]	Text		253
	<b>Track3</b> <Trck3>	[0..1]	Text		253
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		253
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		254
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	254
	<b>Context</b> <Cntxt>	[0..1]			254
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		254
	<b>Service</b> <Svc>	[1..1]			254
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		255
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		255
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		255
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		255
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		256
	<b>Transaction</b> <Tx>	[1..1]			256
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		257
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		257
	<b>Exception</b> <Xcptn>	[1..*]	CodeSet		257
	<b>ExceptionDetail</b> <XcptnDtl>	[0..*]	Text		258
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	258
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			258
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		258
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		259

## 12.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**C2 Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**C3 ValidationByTable**

Must be a valid terrestrial language.

**C4 ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 12.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 12.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			222
	<b>Function</b> <Fctn>	[1..1]	CodeSet		222
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		223
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		223
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		223
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		224
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		224
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		224
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		224
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		224
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		224
	<b>Traceability</b> <Tracblt>	[0..*]			224
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		225
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		225
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		225
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		225

### 12.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		222
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		223
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		223

#### 12.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CPMD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.

CodeName	Name	Definition
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 12.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 12.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 12.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### **12.4.1.3 ExchangeIdentification <XchgId>**

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### **12.4.1.4 ReTransmissionCounter <ReTrnsmssnCntr>**

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

#### **12.4.1.5 CreationDateTime <CreDtTm>**

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### **12.4.1.6 InitiatingParty <InitgPty>**

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### **12.4.1.7 RecipientParty <RcptPty>**

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

#### **12.4.1.8 ProcessState <PrcStat>**

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

#### **12.4.1.9 Traceability <Tracblt>**

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.



**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <Rlayld>	[1..1]	±		225
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		225
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		225
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		225

#### 12.4.1.9.1 RelayIdentification <Rlayld>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <Rlayld>** contains the following elements (see ["GenericIdentification77"](#) on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 12.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text"](#) on page 1317

#### 12.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime"](#) on page 1312

#### 12.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime"](#) on page 1312

## 12.4.2 ProtectedATMExceptionAdvice <PrtctdATMXcptnAdv>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMExceptionAdvice <PrtctdATMXcptnAdv<** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 12.4.3      **ATMExceptionAdvice <ATMXcptnAdv<**

*Presence:* [0..1]

*Definition:* Information related to exceptions occurring on the ATM.

**ATMExceptionAdvice <ATMXcptnAdv>** contains the following **ATMExceptionAdvice1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[0..1]			230
	<b>Acquirer</b> <Acqrr>	[0..1]	±		233
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		233
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		233
	<b>ATM</b> <ATM>	[1..1]			234
	<b>Identification</b> <Id>	[1..1]	Text		236
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		236
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		236
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	236
	<b>Location</b> <Lctn>	[0..1]			237
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		237
	<b>StreetName</b> <StrtNm>	[0..1]	Text		238
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		238
	<b>PostCode</b> <PstCd>	[0..1]	Text		238
	<b>TownName</b> <TwnNm>	[1..1]	Text		238
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		238
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	238
	<b>GeoLocation</b> <GLctn>	[0..1]			238
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		240
	<b>Capabilities</b> <Cpblties>	[0..1]			240
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		241
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		241
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		242
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		242

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ApprovalCodeLength</b> <ApprvlCdLngth>	[0..1]	Quantity		242
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		242
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		243
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		243
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		243
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			243
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245
	<b>Equipment</b> <Eqpmnt>	[0..1]			245
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		245
	<b>Model</b> <Mdl>	[0..1]	Text		245
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		245
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		246
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		246
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		246
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		246
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			246
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247
	<b>Customer</b> <Cstmr>	[0..1]			247
	<b>Profile</b> <Prfl>	[0..1]			247
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		248
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		248
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		248
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	248
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			249
	<b>Method</b> <Mtd>	[1..1]	CodeSet		249
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		249

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Result</b> <Rslt>	[0..1]	CodeSet		250
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		250
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		250
	<b>Card</b> <Card>	[0..1]			250
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		251
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		252
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		252
	<b>PlainCardData</b> <PlainCardData>	[0..1]			252
	<b>PAN</b> <PAN>	[0..1]	Text		253
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		253
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		253
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		253
	<b>Track1</b> <Trck1>	[0..1]	Text		253
	<b>Track2</b> <Trck2>	[0..1]	Text		253
	<b>Track3</b> <Trck3>	[0..1]	Text		253
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		253
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		254
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	254
	<b>Context</b> <Cntxt>	[0..1]			254
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		254
	<b>Service</b> <Svc>	[1..1]			254
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		255
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		255
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		255
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		255
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		256
	<b>Transaction</b> <Tx>	[1..1]			256
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		257
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		257
	<b>Exception</b> <Xcptn>	[1..*]	CodeSet		257
	<b>ExceptionDetail</b> <XcptnDtl>	[0..*]	Text		258

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	258

#### 12.4.3.1 Environment <Envt>

*Presence:* [0..1]

*Definition:* Environment of the exception.

**Environment <Envt>** contains the following **ATMEnvironment16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		233
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		233
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		233
	<b>ATM</b> <ATM>	[1..1]			234
	<b>Identification</b> <Id>	[1..1]	Text		236
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		236
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		236
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	236
	<b>Location</b> <Lctn>	[0..1]			237
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		237
	<b>StreetName</b> <StrtNm>	[0..1]	Text		238
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		238
	<b>PostCode</b> <PstCd>	[0..1]	Text		238
	<b>TownName</b> <TwnNm>	[1..1]	Text		238
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		238
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	238
	<b>GeoLocation</b> <GLctn>	[0..1]			238
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		240
	<b>Capabilities</b> <Cpblties>	[0..1]			240
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		241
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		241
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		242
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		242
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		242

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		242
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		243
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		243
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		243
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			243
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245
	<b>Equipment</b> <Eqpmnt>	[0..1]			245
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		245
	<b>Model</b> <Mdl>	[0..1]	Text		245
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		245
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		246
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		246
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		246
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		246
	<b>ConfigurationParameter</b> <CfgrnParam>	[0..*]			246
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247
	<b>Customer</b> <Cstmr>	[0..1]			247
	<b>Profile</b> <Prfl>	[0..1]			247
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		248
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		248
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		248
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	248
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			249
	<b>Method</b> <Mtd>	[1..1]	CodeSet		249
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		249
	<b>Result</b> <Rslt>	[0..1]	CodeSet		250



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		250
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		250
	<b>Card</b> <Card>	[0..1]			250
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		251
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		252
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		252
	<b>PlainCardData</b> <PlainCardData>	[0..1]			252
	<b>PAN</b> <PAN>	[0..1]	Text		253
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		253
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		253
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		253
	<b>Track1</b> <Trck1>	[0..1]	Text		253
	<b>Track2</b> <Trck2>	[0..1]	Text		253
	<b>Track3</b> <Trck3>	[0..1]	Text		253
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		253
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		254
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	254

#### 12.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 12.4.3.1.2 ATMManagerIdentification <ATMMgrld>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 12.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		236
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		236
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		236
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	236
	<b>Location</b> <Lctn>	[0..1]			237
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		237
	<b>StreetName</b> <StrtNm>	[0..1]	Text		238
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		238
	<b>PostCode</b> <PstCd>	[0..1]	Text		238
	<b>TownName</b> <TwnNm>	[1..1]	Text		238
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		238
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	238
	<b>GeoLocation</b> <GLctn>	[0..1]			238
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		240
	<b>Capabilities</b> <Cpbilities>	[0..1]			240
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		241
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		241
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		242
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		242
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		242
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		242
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		243
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		243
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		243

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			243
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245
	<b>Equipment</b> <Eqpmnt>	[0..1]			245
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		245
	<b>Model</b> <Mdl>	[0..1]	Text		245
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		245
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		246
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		246
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		246
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		246
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			246
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247

#### 12.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 12.4.3.1.4.5 Location <Lctn>

Presence: [0..1]

Definition: Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		237
	<b>StreetName</b> <StrtNm>	[0..1]	Text		238
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		238
	<b>PostCode</b> <PstCd>	[0..1]	Text		238
	<b>TownName</b> <TwnNm>	[1..1]	Text		238
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		238
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	238
	<b>GeoLocation</b> <GLctn>	[0..1]			238
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240

#### 12.4.3.1.4.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 1318

**12.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**12.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**12.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**12.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**12.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**12.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C2 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**12.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			239
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			239
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		240

#### 12.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		239
	<b>Longitude</b> <Long>	[1..1]	Text		239

##### 12.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 12.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 12.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		240
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		240
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		240

#### 12.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 12.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 12.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 12.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 12.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.



**Capabilities <Cpbilities>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		241
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		241
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		242
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		242
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		242
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		242
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		243
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		243
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		243
	<b>MessageCapabilities</b> <MsgCpbilities>	[0..*]			243
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245

#### 12.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 12.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 12.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 12.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 12.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 12.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**12.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**12.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**12.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**12.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		244
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		244
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		244
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		244
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	245

#### 12.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 12.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 12.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 12.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**12.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C3 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**12.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		245
	<b>Model</b> <Mdl>	[0..1]	Text		245
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		245
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		246
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		246
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		246
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		246
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			246
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247

**12.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**12.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**12.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		246
	<b>Version</b> <Vrsn>	[1..1]	Text		247

##### 12.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 12.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.5 Customer <Cstmr>

*Presence:* [0..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			247
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		248
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		248
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		248
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	248
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			249
	<b>Method</b> <Mtd>	[1..1]	CodeSet		249
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		249
	<b>Result</b> <Rslt>	[0..1]	CodeSet		250
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		250
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		250

#### 12.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the service.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		248
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		248
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		248

#### 12.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 12.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.5.1.3 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C3 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299



**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**12.4.3.1.5.3 AuthenticationResult <AuthntcnRslt>**

*Presence:* [1..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		249
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		249
	<b>Result</b> <Rslt>	[0..1]	CodeSet		250
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		250
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		250

**12.4.3.1.5.3.1 Method <Mtd>**

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**12.4.3.1.5.3.2 VerificationEntity <VrfctnNtty>**

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 12.4.3.1.5.3.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 12.4.3.1.5.3.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 12.4.3.1.5.3.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 12.4.3.1.6 Card <Card>

*Presence:* [0..1]

*Definition:* Card performing the transaction.

**Card** <Card> contains the following **PaymentCard23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		251
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		252
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		252
	<b>PlainCardData</b> <PlainCardData>	[0..1]			252
	<b>PAN</b> <PAN>	[0..1]	Text		253
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		253
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		253
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		253
	<b>Track1</b> <Trck1>	[0..1]	Text		253
	<b>Track2</b> <Trck2>	[0..1]	Text		253
	<b>Track3</b> <Trck3>	[0..1]	Text		253
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		253
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		254
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	254

#### 12.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>

*Presence:* [1..1]

*Definition:* Entry mode that used to obtain the card data.

*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

**12.4.3.1.6.2 FallbackIndicator <FllbckInd>***Presence:* [0..1]*Definition:* Indicate the occurrence of a fall-back on the card entry mode.*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

**12.4.3.1.6.3 ProtectedCardData <PrctcdCardData>***Presence:* [0..1]*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**12.4.3.1.6.4 PlainCardData <PlainCardData>***Presence:* [0..1]*Definition:* Sensitive data associated with the card performing the transaction.**PlainCardData <PlainCardData>** contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		253
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		253
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		253
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		253
	<b>Track1</b> <Trck1>	[0..1]	Text		253
	<b>Track2</b> <Trck2>	[0..1]	Text		253
	<b>Track3</b> <Trck3>	[0..1]	Text		253

**12.4.3.1.6.4.1 PAN <PAN>**

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

**12.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>**

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

**12.4.3.1.6.4.3 EffectiveDate <FctvDt>**

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**12.4.3.1.6.4.4 ExpiryDate <XpryDt>**

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**12.4.3.1.6.4.5 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**12.4.3.1.6.4.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**12.4.3.1.6.4.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**12.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

#### 12.4.3.1.6.6 CardCurrencyCode <CardCcyCd>

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

#### 12.4.3.1.6.7 ElectronicPurseBalance <ElctrncPrsBal>

*Presence:* [0..1]

*Definition:* Balance of the captured card or epurse if available.

*Impacted by:* C4 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

#### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 12.4.3.2 Context <Cntxt>

*Presence:* [0..1]

*Definition:* Context of the exception.

**Context <Cntxt>** contains the following **ATMContext20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		254
	<b>Service</b> <Svc>	[1..1]			254
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		255
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		255
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		255
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		255
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		256

#### 12.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the exception occurred.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService24** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		255
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		255
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		255
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		255
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		256

#### 12.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of service selected by the customer.

*Datatype:* "ATMServiceType10Code" on page 1284

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
CDVF	CardVerification	Verification of the card.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.

CodeName	Name	Definition
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorized by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### 12.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 12.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Transaction for which the exception is sent.



**Transaction <Tx>** contains the following **ATMTransaction27** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		257
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		257
	<b>Exception</b> <Xcptn>	[1..*]	CodeSet		257
	<b>ExceptionDetail</b> <XcptnDtl>	[0..*]	Text		258
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	258

#### 12.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [0..1]

*Definition:* Identification of the transaction.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 12.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period.

*Datatype:* ["Max35Text"](#) on page 1317

#### 12.4.3.3.3 Exception <Xcptn>

*Presence:* [1..\*]

*Definition:* Exception occurring outside the service.

*Datatype:* ["FailureReason8Code"](#) on page 1298

CodeName	Name	Definition
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CDCP	CardCaptured	ATM manager has requested to capture the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
MALF	Malfunction	Suspected malfunction.

CodeName	Name	Definition
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
UCPT	UnableToCapture	Unable to capture the card as requested.

#### 12.4.3.3.4 ExceptionDetail <XcptnDtl>

*Presence:* [0..\*]

*Definition:* Explanation of the exception.

*Datatype:* "Max70Text" on page 1318

#### 12.4.3.3.5 ElectronicPurseBalance <ElctrncPrsBal>

*Presence:* [0..1]

*Definition:* Balance of the captured card or epurse if available.

*Impacted by:* C4 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

##### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

### 12.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		258
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		259

#### 12.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 12.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **13      caam.012.001.01**

## **ATMExceptionAcknowledgementV01**

### **13.1    MessageDefinition Functionality**

The ATMExceptionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMExceptionAdvice message.

#### Outline

The ATMExceptionAcknowledgementV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMExceptionAcknowledgement  
Encrypted body of the message.
- C. ATMExceptionAcknowledgement  
Information related to the acknowledgement of an ATM exception.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 13.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMXcptnAck>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			262
	<b>MessageFunction</b> <MsgFctn>	[1..1]			263
	<b>Function</b> <Fctn>	[1..1]	CodeSet		263
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		265
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		265
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		265
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		265
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		265
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		266
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		266
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		266
	<b>ProcessState</b> <PrclStat>	[0..1]	Text		266
	<b>Traceability</b> <Tracblt>	[0..*]			266
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		266
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		267
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		267
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		267
	<b>ProtectedATMEExceptionAcknowledgement</b> <PrctcdATMXcptnAck>	[0..1]	±		267
	<b>ATMEExceptionAcknowledgement</b> <ATMXcptnAck>	[0..1]			267
	<b>ATM</b> <ATM>	[1..1]	±		268
	<b>Context</b> <Cntxt>	[1..1]			269
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		270
	<b>Service</b> <Svc>	[1..1]			270
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		270
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		270
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		271
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		271
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		272

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Transaction</b> <Tx>	[1..1]			272
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		272
	<b>Response</b> <Rspn>	[1..1]	CodeSet		272
	<b>Command</b> <Cmd>	[0..*]			273
	<b>Type</b> <Tp>	[1..1]	CodeSet		273
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		273
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		274
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		274
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		274
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			274
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		275
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		275

## 13.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 13.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 13.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			263
	<b>Function</b> <Fctn>	[1..1]	CodeSet		263
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		265
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		265
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		265
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		265
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		265
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		266
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		266
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		266
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		266
	<b>Traceability</b> <Tracblt>	[0..*]			266
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		266
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		267
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		267
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		267

#### 13.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		263
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		265
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		265

##### 13.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.



CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 13.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 13.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 13.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 13.4.1.3 ExchangeIdentification <Xchgld>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 13.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**13.4.1.5 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**13.4.1.6 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**13.4.1.7 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**13.4.1.8 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**13.4.1.9 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		266
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		267
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		267
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		267

**13.4.1.9.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlyId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 13.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 13.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 13.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 13.4.2 ProtectedATMExceptionAcknowledgement <PrtctdATMXcptnAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMExceptionAcknowledgement <PrtctdATMXcptnAck>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 13.4.3 ATMExceptionAcknowledgement <ATMXcptnAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement of an ATM exception.

**ATMExceptionAcknowledgement <ATMXcptnAck>** contains the following  
**ATMExceptionAcknowledgement1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATM</b> <ATM>	[1..1]	±		268
	<b>Context</b> <Cntxt>	[1..1]			269
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		270
	<b>Service</b> <Svc>	[1..1]			270
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		270
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		270
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		271
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		271
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		272
	<b>Transaction</b> <Tx>	[1..1]			272
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		272
	<b>Response</b> <Rspn>	[1..1]	CodeSet		272
	<b>Command</b> <Cmd>	[0..*]			273
	<b>Type</b> <Tp>	[1..1]	CodeSet		273
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		273
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		274
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		274
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		274

#### 13.4.3.1 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

### 13.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed, if any.

**Context <Cntxt>** contains the following **ATMContext20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		270
	<b>Service</b> <Svc>	[1..1]			270
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		270
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		270
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		271
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		271
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		272

#### 13.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the exception occurred.

*Datatype:* "Max35Text" on page 1317

#### 13.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService24** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		270
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		270
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		271
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		271
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		272

##### 13.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 13.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

**13.4.3.2.2.3 HostServiceCode <HstSvcCd>***Presence:* [0..1]*Definition:* Codification of the type of service for the host.*Datatype:* "Max35Text" on page 1317**13.4.3.2.2.4 ServiceType <SvcTp>***Presence:* [1..1]*Definition:* Describes the type of service selected by the customer.*Datatype:* "ATMServiceType10Code" on page 1284

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
CDVF	CardVerification	Verification of the card.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.

CodeName	Name	Definition
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### 13.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 13.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Acknowledgement of the exception advice.

**Transaction <Tx>** contains the following **ATMTransaction28** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[0..1]	±		272
	<b>Response</b> <Rspn>	[1..1]	CodeSet		272
	<b>Command</b> <Cmd>	[0..*]			273
	<b>Type</b> <Tp>	[1..1]	CodeSet		273
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		273
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		274
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		274
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		274

##### 13.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [0..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

##### 13.4.3.3.2 Response <Rspn>

*Presence:* [1..1]

*Definition:* Response to the advice.



*Datatype:* "Response2Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.

#### 13.4.3.3.3 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		273
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		273
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		274
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		274
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		274

##### 13.4.3.3.3.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

##### 13.4.3.3.3.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 13.4.3.3.3.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 13.4.3.3.3.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 13.4.3.3.3.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgrtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

### 13.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		275
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		275

#### 13.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 13.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **14      catp.001.001.02**

## **ATMWithdrawalRequestV02**

### **14.1    MessageDefinition Functionality**

The ATMWithdrawalRequest message is sent by an ATM to an acquirer or its agent to request the approval of a withdrawal transaction at an ATM.

#### Outline

The ATMWithdrawalRequestV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMWithdrawalRequest  
Encrypted body of the message.
- C. ATMWithdrawalRequest  
Information related to the request of a withdrawal transaction from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 14.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMWdrwlReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			283
	<b>MessageFunction</b> <MsgFctn>	[1..1]			283
	<b>Function</b> <Fctn>	[1..1]	CodeSet		284
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		285
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		285
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		285
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		286
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		286
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		286
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		286
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		286
	<b>Traceability</b> <Tracblt>	[0..*]			286
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		286
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		287
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		287
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		287
	<b>ProtectedATMWithdrawalRequest</b> <PrtctdATMWdrwlReq>	[0..1]	±		287
	<b>ATMWithdrawalRequest</b> <ATMWdrwlReq>	[0..1]			287
	<b>Environment</b> <Envt>	[1..1]			292
	<b>Acquirer</b> <Acqrr>	[0..1]	±		295
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		296
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		296
	<b>ATM</b> <ATM>	[1..1]			296
	<b>Identification</b> <Id>	[1..1]	Text		298
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		298
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		298
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	298
	<b>Location</b> <Lctn>	[0..1]			299
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		299

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StreetName</b> <StrtNm>	[0..1]	Text		300
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		300
	<b>PostCode</b> <PstCd>	[0..1]	Text		300
	<b>TownName</b> <TwnNm>	[1..1]	Text		300
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		300
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	300
	<b>GeoLocation</b> <GLctn>	[0..1]			300
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		302
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		302
	<b>Capabilities</b> <Cpblties>	[0..1]			302
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		303
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		303
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		304
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		304
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		304
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		304
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		305
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		305
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		305
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			305
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	307

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Equipment</b> <Eqpmnt>	[0..1]			307
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		307
	<b>Model</b> <Mdl>	[0..1]	Text		307
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		307
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		308
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		308
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		308
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		308
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			308
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309
	<b>Customer</b> <Cstmr>	[1..1]			309
	<b>Profile</b> <Prfl>	[0..1]			310
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		310
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		311
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		311
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	311
	<b>Authentication</b> <Authntcn>	[1..*]			311
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		312
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		312
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		312
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		312
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		313
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			313
	<b>Method</b> <Mtd>	[1..1]	CodeSet		313
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		314
	<b>Result</b> <Rslt>	[0..1]	CodeSet		314
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		315
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		315
	<b>Card</b> <Card>	[0..1]			315
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		315

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		316
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		316
	<b>PlainCardData</b> <PlainCardData>	[0..1]			316
	<b>PAN</b> <PAN>	[0..1]	Text		317
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		317
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		317
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		317
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		317
	<b>Track1</b> <Trck1>	[0..1]	Text		318
	<b>Track2</b> <Trck2>	[0..1]	Text		318
	<b>Track3</b> <Trck3>	[0..1]	Text		318
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		318
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		318
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		318
	<b>Context</b> <Cntxt>	[1..1]			318
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		319
	<b>Service</b> <Svc>	[0..1]			319
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		319
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		319
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		319
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		320
	<b>Transaction</b> <Tx>	[1..1]			320
	<b>CashDispensed</b> <CshDspnsd>	[0..1]	Indicator		322
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		322
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		323
	<b>AccountData</b> <AcctData>	[0..1]			323
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		324
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		324
	<b>AccountName</b> <AcctNm>	[0..1]	Text		325
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			325
	<b>Name</b> <Nm>	[1..1]	Text		325



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Address</b> <Adr>	[1..1]	±		325
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	326
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			326
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	326
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		327
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		327
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			327
	<b>Identification</b> <Id>	[1..1]	Text		327
	<b>Servicer</b> <Svcr>	[0..1]			327
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	328
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		328
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		328
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		329
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		329
	<b>CurrencyConversionResult</b> <CcyConvsRslt>	[0..1]			329
	<b>CurrencyConversionIdentification</b> <CcyConvslId>	[0..1]	Text		330
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			331
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	331
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		331
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		331
	<b>Name</b> <Nm>	[0..1]	Text		331
	<b>ResultingAmount</b> <RsltgtAmt>	[1..1]	Amount		331
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		332
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		332
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		332
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		332
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			332
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	332
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		333
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		333
	<b>Name</b> <Nm>	[0..1]	Text		333

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		333
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			333
	<b>Amount</b> <Amt>	[1..1]	Amount		333
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		333
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			334
	<b>Rate</b> <Rate>	[1..1]	Rate		334
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		334
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			334
	<b>Format</b> <Frmt>	[0..1]	CodeSet		334
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		335
	<b>SelectedMixType</b> <SelctdMixTp>	[0..1]	Text		335
	<b>SelectedMix</b> <SelctdMix>	[0..*]	±		335
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		335
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		335
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			335
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		336
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		336

## 14.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**C5 ValidationByTable**

Must be a valid terrestrial language.

## 14.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 14.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			283
	<b>Function</b> <Fctn>	[1..1]	CodeSet		284
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		285
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		285
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		285
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		286
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		286
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		286
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		286
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		286
	<b>Traceability</b> <Tracblt>	[0..*]			286
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		286
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		287
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		287
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		287

#### 14.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		284
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		285
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		285

#### 14.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CPMD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.

CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 14.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 14.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 14.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**14.4.1.3 ExchangeIdentification <XchgId>***Presence:* [1..1]*Definition:* Unique identification of an exchange occurrence.*Datatype:* "Max3NumericText" on page 1317**14.4.1.4 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**14.4.1.5 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**14.4.1.6 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**14.4.1.7 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**14.4.1.8 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		286
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		287
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		287
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		287

**14.4.1.8.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlyId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 14.4.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 14.4.1.8.3 TraceDateTimeln <TracDtTmIn>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 14.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 14.4.2 ProtectedATMWithdrawalRequest <PrtctdATMWdrwlReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMWithdrawalRequest <PrtctdATMWdrwlReq>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 14.4.3 ATMWithdrawalRequest <ATMWdrwlReq>

*Presence:* [0..1]

*Definition:* Information related to the request of a withdrawal transaction from an ATM.

**ATMWithdrawalRequest <ATMWdrwlReq>** contains the following **ATMWithdrawalRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			292
	<b>Acquirer</b> <Acqrr>	[0..1]	±		295
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		296
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		296
	<b>ATM</b> <ATM>	[1..1]			296
	<b>Identification</b> <Id>	[1..1]	Text		298
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		298
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		298
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	298
	<b>Location</b> <Lctn>	[0..1]			299
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		299
	<b>StreetName</b> <StrtNm>	[0..1]	Text		300
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		300
	<b>PostCode</b> <PstCd>	[0..1]	Text		300
	<b>TownName</b> <TwnNm>	[1..1]	Text		300
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		300
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	300
	<b>GeoLocation</b> <GLctn>	[0..1]			300
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		302
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		302
	<b>Capabilities</b> <Cpblties>	[0..1]			302
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		303
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		303
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		304



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		304
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		304
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		304
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		305
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		305
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		305
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			305
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	307
	<b>Equipment</b> <Eqpmnt>	[0..1]			307
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		307
	<b>Model</b> <Mdl>	[0..1]	Text		307
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		307
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		308
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		308
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		308
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		308
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			308
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309
	<b>Customer</b> <Cstmr>	[1..1]			309
	<b>Profile</b> <Prfl>	[0..1]			310
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		310
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		311
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		311
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	311
	<b>Authentication</b> <Authntcn>	[1..*]			311
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		312

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		312
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		312
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		312
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		313
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			313
	<b>Method</b> <Mtd>	[1..1]	CodeSet		313
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		314
	<b>Result</b> <Rslt>	[0..1]	CodeSet		314
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		315
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		315
	<b>Card</b> <Card>	[0..1]			315
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		315
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		316
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		316
	<b>PlainCardData</b> <PlainCardData>	[0..1]			316
	<b>PAN</b> <PAN>	[0..1]	Text		317
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		317
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		317
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		317
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		317
	<b>Track1</b> <Trck1>	[0..1]	Text		318
	<b>Track2</b> <Trck2>	[0..1]	Text		318
	<b>Track3</b> <Trck3>	[0..1]	Text		318
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		318
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		318
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		318
	<b>Context</b> <Cntxt>	[1..1]			318
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		319
	<b>Service</b> <Svc>	[0..1]			319
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		319
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		319

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		319
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		320
	<b>Transaction</b> <Tx>	[1..1]			320
	<b>CashDispensed</b> <CshDspnsd>	[0..1]	Indicator		322
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		322
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		323
	<b>AccountData</b> <AcctData>	[0..1]			323
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		324
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		324
	<b>AccountName</b> <AcctNm>	[0..1]	Text		325
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			325
	<b>Name</b> <Nm>	[1..1]	Text		325
	<b>Address</b> <Adr>	[1..1]	±		325
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	326
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			326
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	326
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		327
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		327
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			327
	<b>Identification</b> <Id>	[1..1]	Text		327
	<b>Servicer</b> <Svcr>	[0..1]			327
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	328
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		328
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		328
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		329
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		329
	<b>CurrencyConversionResult</b> <CcyConvsRslt>	[0..1]			329
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		330
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			331
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	331
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		331

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		331
	<b>Name</b> <Nm>	[0..1]	Text		331
	<b>ResultingAmount</b> <RsltgAmt>	[1..1]	Amount		331
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		332
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		332
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		332
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		332
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			332
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	332
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		333
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		333
	<b>Name</b> <Nm>	[0..1]	Text		333
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		333
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			333
	<b>Amount</b> <Amt>	[1..1]	Amount		333
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		333
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			334
	<b>Rate</b> <Rate>	[1..1]	Rate		334
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		334
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			334
	<b>Format</b> <Frmt>	[0..1]	CodeSet		334
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		335
	<b>SelectedMixType</b> <SelctdMixTp>	[0..1]	Text		335
	<b>SelectedMix</b> <SelctdMix>	[0..*]	±		335
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		335
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		335

#### 14.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the withdrawal transaction.

**Environment <Envt>** contains the following **ATMEnvironment11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		295
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		296
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		296
	<b>ATM</b> <ATM>	[1..1]			296
	<b>Identification</b> <Id>	[1..1]	Text		298
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		298
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		298
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	298
	<b>Location</b> <Lctn>	[0..1]			299
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		299
	<b>StreetName</b> <StrtNm>	[0..1]	Text		300
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		300
	<b>PostCode</b> <PstCd>	[0..1]	Text		300
	<b>TownName</b> <TwnNm>	[1..1]	Text		300
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		300
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	300
	<b>GeoLocation</b> <GLctn>	[0..1]			300
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		302
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		302
	<b>Capabilities</b> <Cpblties>	[0..1]			302
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		303
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		303
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		304
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		304
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		304

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		304
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		305
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		305
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		305
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			305
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlbfFrmnt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	307
	<b>Equipment</b> <Eqpmnt>	[0..1]			307
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		307
	<b>Model</b> <Mdl>	[0..1]	Text		307
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		307
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		308
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		308
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		308
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		308
	<b>ConfigurationParameter</b> <CfgrnParam>	[0..*]			308
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309
	<b>Customer</b> <Cstmr>	[1..1]			309
	<b>Profile</b> <Prfl>	[0..1]			310
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		310
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		311
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		311
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	311
	<b>Authentication</b> <Authntcn>	[1..*]			311
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		312
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		312
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		312

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		312
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		313
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			313
	<b>Method</b> <Mtd>	[1..1]	CodeSet		313
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		314
	<b>Result</b> <Rslt>	[0..1]	CodeSet		314
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		315
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		315
	<b>Card</b> <Card>	[0..1]			315
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		315
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		316
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		316
	<b>PlainCardData</b> <PlainCardData>	[0..1]			316
	<b>PAN</b> <PAN>	[0..1]	Text		317
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		317
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		317
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		317
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		317
	<b>Track1</b> <Trck1>	[0..1]	Text		318
	<b>Track2</b> <Trck2>	[0..1]	Text		318
	<b>Track3</b> <Trck3>	[0..1]	Text		318
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		318
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		318
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		318

#### 14.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstr>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**14.4.3.1.2 ATMMManagerIdentification <ATMMgrId>**

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

**14.4.3.1.3 HostingEntity <HstgNtty>**

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**14.4.3.1.4 ATM <ATM>**

*Presence:* [1..1]

*Definition:* ATM information.



**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		298
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		298
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		298
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	298
	<b>Location</b> <Lctn>	[0..1]			299
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		299
	<b>StreetName</b> <StrtNm>	[0..1]	Text		300
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		300
	<b>PostCode</b> <PstCd>	[0..1]	Text		300
	<b>TownName</b> <TwnNm>	[1..1]	Text		300
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		300
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	300
	<b>GeoLocation</b> <GLctn>	[0..1]			300
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		302
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		302
	<b>Capabilities</b> <Cpblties>	[0..1]			302
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		303
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		303
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		304
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		304
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		304
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		304
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		305
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		305
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		305

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			305
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	307
	<b>Equipment</b> <Eqpmnt>	[0..1]			307
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		307
	<b>Model</b> <Mdl>	[0..1]	Text		307
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		307
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		308
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		308
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		308
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		308
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			308
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309

#### 14.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 14.4.3.1.4.5 Location <Lctn>

Presence: [0..1]

Definition: Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		299
	<b>StreetName</b> <StrtNm>	[0..1]	Text		300
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		300
	<b>PostCode</b> <PstCd>	[0..1]	Text		300
	<b>TownName</b> <TwnNm>	[1..1]	Text		300
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		300
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	300
	<b>GeoLocation</b> <GLctn>	[0..1]			300
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		302

#### 14.4.3.1.4.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 1318

**14.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**14.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**14.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**14.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**14.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**14.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**14.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			301
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			301
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		302

#### 14.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		301
	<b>Longitude</b> <Long>	[1..1]	Text		301

##### 14.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 14.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 14.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		302
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		302
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		302

#### 14.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 14.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 14.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 14.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 14.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		303
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		303
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		304
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		304
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		304
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		304
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		305
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		305
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		305
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			305
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	307

#### 14.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 14.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 14.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 14.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 14.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 14.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314



**14.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**14.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**14.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**14.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		306
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		306
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		306
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		306
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	307

#### 14.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 14.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 14.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 14.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**14.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**14.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		307
	<b>Model</b> <Mdl>	[0..1]	Text		307
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		307
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		308
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		308
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		308
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		308
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			308
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309

**14.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**14.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**14.4.3.1.4.8.3 SerialNumber <SrlNb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		308
	<b>Version</b> <Vrsn>	[1..1]	Text		309

##### 14.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 14.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			310
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		310
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		311
	<b>CustomerIdentification &lt;Cstmrid&gt;</b>	[0..1]	Text		311
	<b>SelectedLanguage &lt;SelctdLang&gt;</b>	[0..1]	CodeSet	C5	311
	<b>Authentication &lt;Authntcn&gt;</b>	[1..*]			311
	<b>AuthenticationMethod &lt;AuthntcnMtd&gt;</b>	[1..1]	CodeSet		312
	<b>TokenRequested &lt;TknReqd&gt;</b>	[0..1]	Indicator		312
	<b>AuthenticationValue &lt;AuthntcnVal&gt;</b>	[0..1]	Binary		312
	<b>ProtectedAuthenticationValue &lt;PrtctdAuthntcnVal&gt;</b>	[0..1]	±		312
	<b>CardholderOnLinePIN &lt;CrdhldrOnLinePIN&gt;</b>	[0..1]	±		313
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			313
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		313
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		314
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		314
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		315
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		315

#### 14.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		310
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		311
	<b>CustomerIdentification &lt;Cstmrid&gt;</b>	[0..1]	Text		311

##### 14.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 14.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.5.1.3 CustomerIdentification <CstmrId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

#### Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

#### 14.4.3.1.5.3 Authentication <Authntcn>

*Presence:* [1..\*]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer and its card.

**Authentication <Authntcn>** contains the following **CardholderAuthentication8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		312
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		312
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		312
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		312
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		313

**14.4.3.1.5.3.1 AuthenticationMethod <AuthntcnMtd>***Presence:* [1..1]*Definition:* Method and data intended to be used for this transaction to authenticate the customer or its card.*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**14.4.3.1.5.3.2 TokenRequested <TknReqd>***Presence:* [0..1]*Definition:* True if an authentication token is requested to the host. This token will be provided to the ATM for further authentication.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**14.4.3.1.5.3.3 AuthenticationValue <AuthntcnVal>***Presence:* [0..1]*Definition:* Value or token to be used for customer or card authentication.*Datatype:* "Max5000Binary" on page 1271**14.4.3.1.5.3.4 ProtectedAuthenticationValue <PrtctdAuthntcnVal>***Presence:* [0..1]*Definition:* Protection of the authentication value.



**ProtectedAuthenticationValue <PrctcdAuthntcnVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 14.4.3.1.5.3.5 CardholderOnLinePIN <CrhdldrOnLinePIN>

*Presence:* [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderOnLinePIN <CrhdldrOnLinePIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 14.4.3.1.5.4 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		313
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		314
	<b>Result</b> <Rslt>	[0..1]	CodeSet		314
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		315
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		315

##### 14.4.3.1.5.4.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.

CodeName	Name	Definition
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 14.4.3.1.5.4.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 14.4.3.1.5.4.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

**14.4.3.1.5.4.4 AdditionalResult <AddtlRslt>***Presence:* [0..1]*Definition:* Additional result of the verification.*Datatype:* "Max500Text" on page 1318**14.4.3.1.5.4.5 AuthenticationToken <AuthntcnTkn>***Presence:* [0..1]*Definition:* Token provided to the ATM for further proof of authentication.*Datatype:* "Max140Binary" on page 1270**14.4.3.1.6 Card <Card>***Presence:* [0..1]*Definition:* Card performing the transaction.**Card <Card>** contains the following **PaymentCard22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		315
	<b>FallbackIndicator</b> <Fllbcklnd>	[0..1]	CodeSet		316
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		316
	<b>PlainCardData</b> <PlainCardData>	[0..1]			316
	<b>PAN</b> <PAN>	[0..1]	Text		317
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		317
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		317
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		317
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		317
	<b>Track1</b> <Trck1>	[0..1]	Text		318
	<b>Track2</b> <Trck2>	[0..1]	Text		318
	<b>Track3</b> <Trck3>	[0..1]	Text		318
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		318
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		318
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		318

**14.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>***Presence:* [1..1]*Definition:* Entry mode used to obtain the card data.*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

#### 14.4.3.1.6.2 FallbackIndicator <FllbckInd>

*Presence:* [0..1]

*Definition:* Indicates the occurrence of a fall-back on the card entry mode.

*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

#### 14.4.3.1.6.3 ProtectedCardData <PrctcdCardData>

*Presence:* [0..1]

*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.

**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 14.4.3.1.6.4 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		317
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		317
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		317
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		317
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		317
	<b>Track1</b> <Trck1>	[0..1]	Text		318
	<b>Track2</b> <Trck2>	[0..1]	Text		318
	<b>Track3</b> <Trck3>	[0..1]	Text		318
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		318

#### 14.4.3.1.6.4.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 14.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 14.4.3.1.6.4.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 14.4.3.1.6.4.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 14.4.3.1.6.4.5 ServiceCode <SvcCd>

*Presence:* [0..1]

*Definition:* Services attached to the card, as defined in ISO 7813.

*Datatype:* "Exact3NumericText" on page 1315

**14.4.3.1.6.4.6 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**14.4.3.1.6.4.7 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**14.4.3.1.6.4.8 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**14.4.3.1.6.4.9 CardholderName <CrhdlrNm>**

*Presence:* [0..1]

*Definition:* Name of the cardholder stored on the card.

*Datatype:* "Max45Text" on page 1318

**14.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

**14.4.3.1.6.6 CardCurrencyCode <CardCcyCd>**

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

**14.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		319
	<b>Service</b> <Svc>	[0..1]			319
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		319
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		319
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		319
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		320

#### 14.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.2.2 Service <Svc>

*Presence:* [0..1]

*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		319
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		319
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		319
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		320

##### 14.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 14.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

##### 14.4.3.2.2.3 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of transaction selected by the customer.

*Datatype:* "ATMServiceType1Code" on page 1285

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.

#### 14.4.3.2.2.4 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Withdrawal transaction for which the authorisation is requested.



**Transaction <Tx>** contains the following **ATMTransaction13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CashDispensed</b> <CshDspnsd>	[0..1]	Indicator		322
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		322
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		323
	<b>AccountData</b> <AcctData>	[0..1]			323
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		324
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		324
	<b>AccountName</b> <AcctNm>	[0..1]	Text		325
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			325
	<b>Name</b> <Nm>	[1..1]	Text		325
	<b>Address</b> <Adr>	[1..1]	±		325
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	326
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			326
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	326
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		327
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		327
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			327
	<b>Identification</b> <Id>	[1..1]	Text		327
	<b>Servicer</b> <Svcr>	[0..1]			327
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	328
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		328
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		328
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		329
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		329
	<b>CurrencyConversionResult</b> <CcyConvsRslt>	[0..1]			329
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		330
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			331
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	331
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		331
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		331
	<b>Name</b> <Nm>	[0..1]	Text		331
	<b>ResultingAmount</b> <RsltgAmt>	[1..1]	Amount		331

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		332
	<b>InvertedExchangeRate</b> <NvrtedXchgRate>	[0..1]	Rate		332
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		332
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		332
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			332
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	332
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		333
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		333
	<b>Name</b> <Nm>	[0..1]	Text		333
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		333
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			333
	<b>Amount</b> <Amt>	[1..1]	Amount		333
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		333
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			334
	<b>Rate</b> <Rate>	[1..1]	Rate		334
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		334
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			334
	<b>Format</b> <Frmt>	[0..1]	CodeSet		334
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		335
	<b>SelectedMixType</b> <SelctdMixTp>	[0..1]	Text		335
	<b>SelectedMix</b> <SelctdMix>	[0..*]	±		335
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		335
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		335

#### 14.4.3.3.1 CashDispensed <CshDspnsd>

*Presence:* [0..1]

*Definition:* True if cash has to be dispensed by the ATM for the transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 14.4.3.3.2 TransactionIdentification <Txld>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 14.4.3.3.3 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.3.4 AccountData <AcctData>

*Presence:* [0..1]

*Definition:* Unprotected account information.

**AccountData <AcctData>** contains the following **CardAccount7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		324
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		324
	<b>AccountName</b> <AcctNm>	[0..1]	Text		325
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			325
	<b>Name</b> <Nm>	[1..1]	Text		325
	<b>Address</b> <Adr>	[1..1]	±		325
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	326
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			326
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	326
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		327
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		327
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			327
	<b>Identification</b> <Id>	[1..1]	Text		327
	<b>Servicer</b> <Svcr>	[0..1]			327
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	328
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		328

**14.4.3.3.4.1 SelectionMethod <SelctnMtd>***Presence:* [0..1]*Definition:* Method used by the cardholder and the terminal for the choice of the account.*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

**14.4.3.3.4.2 SelectedAccountType <SelctdAcctTp>***Presence:* [0..1]*Definition:* Type of cardholder account used for the transaction.*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.

CodeName	Name	Definition
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 14.4.3.3.4.3 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 14.4.3.3.4.4 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		325
	<b>Address</b> <Adr>	[1..1]	±		325

##### 14.4.3.3.4.4.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

##### 14.4.3.3.4.4.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

#### 14.4.3.3.4.5 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 14.4.3.3.4.6 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	326
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		327
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		327
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			327
	<b>Identification</b> <Id>	[1..1]	Text		327

#### 14.4.3.3.4.6.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

#### 14.4.3.3.4.6.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

#### 14.4.3.3.4.6.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

#### 14.4.3.3.4.6.4 DomesticAccount <DmstAcct>

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		327

#### 14.4.3.3.4.6.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

#### 14.4.3.3.4.7 Servicer <Svcr>

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	328
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		328

#### 14.4.3.3.4.7.1 AnyBIC <AnyBIC>

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 14.4.3.3.4.7.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "GenericIdentification1" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 14.4.3.3.5 ProtectedAccountData <PrctdAcctData>

*Presence:* [0..1]

*Definition:* Encryption of account information.



**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 14.4.3.3.6 TotalRequestedAmount <TtlReqdAmt>

*Presence:* [0..1]

*Definition:* Amount to be authorised by the issuer.

**TotalRequestedAmount <TtlReqdAmt>** contains the following elements (see "AmountAndCurrency1" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

#### 14.4.3.3.7 DetailedRequestedAmount <DtldReqdAmt>

*Presence:* [0..1]

*Definition:* Amounts of the withdrawal transaction.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following elements (see "DetailedAmount12" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountToDispense <AmtToDspns>	[1..1]	Amount		1167
	Currency <Ccy>	[0..1]	CodeSet	C1	1167
	Fees <Fees>	[0..*]	±		1167
	Donation <Dontn>	[0..*]	±		1167

#### 14.4.3.3.8 CurrencyConversionResult <CcyConvRsIt>

*Presence:* [0..1]

*Definition:* Currency conversion accepted by the customer, either to convert the amount to dispense in the base currency of the ATM, or to convert the total requested amount in the currency of the customer (so called dynamic currency conversion).

**CurrencyConversionResult <CcyConvRsIt>** contains the following **CurrencyConversion9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrencyConversionIdentification &lt;CcyConvslId&gt;</b>	[0..1]	Text		330
	<b>TargetCurrency &lt;TrgtCcy&gt;</b>	[1..1]			331
	<b>AlphaCode &lt;AlphaCd&gt;</b>	[0..1]	CodeSet	C1	331
	<b>NumericCode &lt;NmrcCd&gt;</b>	[0..1]	Text		331
	<b>Decimal &lt;Dcml&gt;</b>	[0..1]	Quantity		331
	<b>Name &lt;Nm&gt;</b>	[0..1]	Text		331
	<b>ResultingAmount &lt;RsltAmt&gt;</b>	[1..1]	Amount		331
	<b>ExchangeRate &lt;XchgRate&gt;</b>	[1..1]	Rate		332
	<b>InvertedExchangeRate &lt;NvrtXchgRate&gt;</b>	[0..1]	Rate		332
	<b>QuotationDate &lt;QtnDt&gt;</b>	[0..1]	DateTime		332
	<b>ValidUntil &lt;VldUntil&gt;</b>	[0..1]	DateTime		332
	<b>SourceCurrency &lt;SrcCcy&gt;</b>	[1..1]			332
	<b>AlphaCode &lt;AlphaCd&gt;</b>	[0..1]	CodeSet	C1	332
	<b>NumericCode &lt;NmrcCd&gt;</b>	[0..1]	Text		333
	<b>Decimal &lt;Dcml&gt;</b>	[0..1]	Quantity		333
	<b>Name &lt;Nm&gt;</b>	[0..1]	Text		333
	<b>OriginalAmount &lt;OrgnlAmt&gt;</b>	[1..1]	Amount		333
	<b>CommissionDetails &lt;ComssnDtls&gt;</b>	[0..*]			333
	<b>Amount &lt;Amt&gt;</b>	[1..1]	Amount		333
	<b>AdditionalInformation &lt;AddtlInf&gt;</b>	[0..1]	Text		333
	<b>MarkUpDetails &lt;MrkUpDtls&gt;</b>	[0..*]			334
	<b>Rate &lt;Rate&gt;</b>	[1..1]	Rate		334
	<b>AdditionalInformation &lt;AddtlInf&gt;</b>	[0..1]	Text		334
	<b>DeclarationDetails &lt;DclrtnDtls&gt;</b>	[0..1]			334
	<b>Format &lt;Frmt&gt;</b>	[0..1]	CodeSet		334
	<b>MessageContent &lt;MsgCntt&gt;</b>	[1..1]	Text		335

#### 14.4.3.3.8.1 CurrencyConversionIdentification <CcyConvslId>

*Presence:* [0..1]

*Definition:* Identification of the currency conversion operation.

*Datatype:* "Max35Text" on page 1317

**14.4.3.3.8.2 TargetCurrency <TrgtCcy>***Presence:* [1..1]*Definition:* Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).**TargetCurrency <TrgtCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	331
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		331
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		331
	<b>Name</b> <Nm>	[0..1]	Text		331

**14.4.3.3.8.2.1 AlphaCode <AlphaCd>***Presence:* [0..1]*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**14.4.3.3.8.2.2 NumericCode <NmrcCd>***Presence:* [0..1]*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).*Datatype:* "Exact3NumericText" on page 1315**14.4.3.3.8.2.3 Decimal <Dcml>***Presence:* [0..1]*Definition:* Maximal number of digits after the decimal separator for the currency.*Datatype:* "Number" on page 1314**14.4.3.3.8.2.4 Name <Nm>***Presence:* [0..1]*Definition:* Full name of the currency.*Datatype:* "Max35Text" on page 1317**14.4.3.3.8.3 ResultingAmount <RsltAmt>***Presence:* [1..1]*Definition:* Amount converted in the target currency, including commission and mark-up.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 14.4.3.3.8.4 ExchangeRate <XchgRate>

*Presence:* [1..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the original amount into the resulting amount.

*Datatype:* "PercentageRate" on page 1315

#### 14.4.3.3.8.5 InvertedExchangeRate <NvrtdXchgRate>

*Presence:* [0..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the resulting amount into the original amount.

*Datatype:* "PercentageRate" on page 1315

#### 14.4.3.3.8.6 QuotationDate <QtnDt>

*Presence:* [0..1]

*Definition:* Date and time at which the exchange rate has been quoted.

*Datatype:* "ISODateTime" on page 1312

#### 14.4.3.3.8.7 ValidUntil <VldUntil>

*Presence:* [0..1]

*Definition:* Validity limit of the exchange rate.

*Datatype:* "ISODateTime" on page 1312

#### 14.4.3.3.8.8 SourceCurrency <SrcCcy>

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 alphanumeric characters).

**SourceCurrency <SrcCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	332
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		333
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		333
	<b>Name</b> <Nm>	[0..1]	Text		333

##### 14.4.3.3.8.8.1 AlphaCode <AlphaCd>

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**14.4.3.3.8.8.2 NumericCode <NmrcCd>**

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

**14.4.3.3.8.8.3 Decimal <Dcml>**

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

**14.4.3.3.8.8.4 Name <Nm>**

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

**14.4.3.3.8.9 OriginalAmount <OrgnlAmt>**

*Presence:* [1..1]

*Definition:* Original amount in the source currency.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**14.4.3.3.8.10 CommissionDetails <ComssnDtls>**

*Presence:* [0..\*]

*Definition:* Commission or additional charges made as part of a currency conversion.

**CommissionDetails <ComssnDtls>** contains the following **Commission19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		333
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		333

**14.4.3.3.8.10.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Commission expressed as an amount of money.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**14.4.3.3.8.10.2 AdditionalInformation <AddtlInf>**

*Presence:* [0..1]

*Definition:* Additional information about the type of commission.

*Datatype:* "Max350Text" on page 1317

#### 14.4.3.3.8.11 MarkupDetails <MrkUpDtIs>

*Presence:* [0..\*]

*Definition:* Mark-up made as part of a currency conversion.

**MarkupDetails <MrkUpDtIs>** contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Rate</b> <Rate>	[1..1]	Rate		334
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		334

##### 14.4.3.3.8.11.1 Rate <Rate>

*Presence:* [1..1]

*Definition:* Commission expressed as a percentage.

*Datatype:* "PercentageRate" on page 1315

##### 14.4.3.3.8.11.2 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information about the type of markup.

*Datatype:* "Max350Text" on page 1317

#### 14.4.3.3.8.12 DeclarationDetails <DclrtnDtIs>

*Presence:* [0..1]

*Definition:* Card scheme declaration (disclaimer) to present to the cardholder.

**DeclarationDetails <DclrtnDtIs>** contains the following **ActionMessage5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		334
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		335

##### 14.4.3.3.8.12.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Format of the content.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

**14.4.3.3.8.12.2 MessageContent <MsgCntt>**

*Presence:* [1..1]

*Definition:* Text or graphic data to be display or printed to the cardholder or the cashier.

*Datatype:* "Max20000Text" on page 1316

**14.4.3.3.9 SelectedMixType <SelctdMixTp>**

*Presence:* [0..1]

*Definition:* Media mix algorithm, the identification of the algorithm is an agreement between the ATM and the ATM manager.

*Datatype:* "Max35Text" on page 1317

**14.4.3.3.10 SelectedMix <SelctdMix>**

*Presence:* [0..\*]

*Definition:* Media mix selected.

**SelectedMix <SelctdMix>** contains the following elements (see "ATMMediaMix1" on page 1180 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CashUnitNumber <CshUnitNb>	[0..1]	Quantity		1180
	Number <Nb>	[1..1]	Quantity		1180
	UnitValue <UnitVal>	[1..1]	Amount		1181

**14.4.3.3.11 RequestedReceipt <ReqdRct>**

*Presence:* [0..1]

*Definition:* True if a receipt has be requested by the customer.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**14.4.3.3.12 ICCRelatedData <ICCRltdData>**

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

**14.4.4 SecurityTrailer <SctyTrlr>**

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		336
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		336

#### 14.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 14.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233



# 15      **catp.002.001.02**

## **ATMWithdrawalResponseV02**

### **15.1    MessageDefinition Functionality**

The ATMWithdrawalResponse message is sent by an acquirer or its agent to an ATM in response to the ATMWithdrawalRequest to inform the ATM of the approval or decline of the withdrawal transaction.

#### Outline

The ATMWithdrawalResponseV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header
  - Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMWithdrawalResponse
  - Encrypted body of the message.
- C. ATMWithdrawalResponse
  - Information related to the response of an ATM withdrawal transaction from an ATM manager.
- D. SecurityTrailer
  - Trailer of the message containing a MAC.

## 15.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMWdrwlRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			343
	<b>MessageFunction</b> <MsgFctn>	[1..1]			344
	<b>Function</b> <Fctn>	[1..1]	CodeSet		344
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		346
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		346
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		346
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		346
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		346
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		346
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		347
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		347
	<b>Traceability</b> <Tracblt>	[0..*]			347
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		347
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		347
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		348
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		348
	<b>ProtectedATMWithdrawalResponse</b> <PrctcdATMWdrwlRspn>	[0..1]	±		348
	<b>ATMWithdrawalResponse</b> <ATMWdrwlRspn>	[0..1]			348
	<b>Environment</b> <Envt>	[1..1]			353
	<b>Acquirer</b> <Acqrr>	[0..1]	±		354
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		355
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		355
	<b>ATM</b> <ATM>	[1..1]	±		355
	<b>Customer</b> <Cstmr>	[1..1]			356
	<b>Profile</b> <Prfl>	[0..1]			357
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		357
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		357
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			357
	<b>Method</b> <Mtd>	[1..1]	CodeSet		358

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		358
	<b>Result</b> <RsIt>	[0..1]	CodeSet		359
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		359
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		359
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		359
	<b>PlainCardData</b> <PlainCardData>	[0..1]			359
	<b>PAN</b> <PAN>	[0..1]	Text		360
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		360
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		360
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		360
	<b>Track1</b> <Trck1>	[0..1]	Text		360
	<b>Track2</b> <Trck2>	[0..1]	Text		361
	<b>Track3</b> <Trck3>	[0..1]	Text		361
	<b>Context</b> <Cntxt>	[1..1]			361
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		361
	<b>Service</b> <Svc>	[0..1]			361
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		362
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		362
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		362
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		362
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		363
	<b>Transaction</b> <Tx>	[1..1]			363
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		367
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		367
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		367
	<b>AccountData</b> <AcctData>	[0..1]			367
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		368
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		369
	<b>AccountName</b> <AcctNm>	[0..1]	Text		370
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			370
	<b>Name</b> <Nm>	[1..1]	Text		370

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Address</b> <Adr>	[1..1]	±		370
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	370
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			371
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	371
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		371
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		372
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			372
	<b>Identification</b> <Id>	[1..1]	Text		372
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		372
	<b>Servicer</b> <Svcr>	[0..1]			372
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	372
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		373
	<b>Balance</b> <Bal>	[0..1]			373
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	373
	<b>Sign</b> <Sgn>	[0..1]	Indicator		374
	<b>Date</b> <Dt>	[0..1]	Date		374
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		374
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		374
	<b>ProtectedAccountData</b> <PrctdAcctData>	[0..1]	±		374
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		375
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		375
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		375
	<b>CurrencyConversionEligibility</b> <CcyConvsElgblty>	[0..1]			375
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		376
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			377
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	377
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		377
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		377
	<b>Name</b> <Nm>	[0..1]	Text		377
	<b>ResultingAmount</b> <RsltgAmt>	[1..1]	Amount		377
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		378

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		378
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		378
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		378
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			378
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	378
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		379
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		379
	<b>Name</b> <Nm>	[0..1]	Text		379
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		379
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			379
	<b>Amount</b> <Amt>	[1..1]	Amount		379
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		379
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			380
	<b>Rate</b> <Rate>	[1..1]	Rate		380
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		380
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			380
	<b>Format</b> <Frmt>	[0..1]	CodeSet		380
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		381
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		381
	<b>Limits</b> <Lmts>	[0..1]			381
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	381
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		382
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		382
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			382
	<b>Type</b> <Tp>	[1..1]	Text		382
	<b>Amount</b> <Amt>	[1..1]	Amount		382
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	382
	<b>Label</b> <Labl>	[0..1]	Text		383
	<b>MixType</b> <MixTp>	[0..1]	Text		383
	<b>Mix</b> <Mix>	[0..*]	±		383
	<b>AuthorisationResult</b> <AuthstnRslt>	[1..1]			383

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		384
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			385
	<b>Response</b> <Rspn>	[1..1]	CodeSet		385
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		385
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		389
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			389
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		389
	<b>Codification</b> <Cdfctn>	[0..1]	Text		389
	<b>Response</b> <Rspn>	[1..1]	Text		390
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		390
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		390
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		390
	<b>Action</b> <Actn>	[0..*]			390
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		390
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			391
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392
	<b>MessageContentSignature</b> <MsgCnttSgnt>	[0..1]	Binary		392
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		392
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		394
	<b>Command</b> <Cmd>	[0..*]			394
	<b>Type</b> <Tp>	[1..1]	CodeSet		394
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		395
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		395
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		395
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		396
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			396
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		396
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		397

## 15.3 Constraints

### C1 **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 15.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 15.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			344
	<b>Function</b> <Fctn>	[1..1]	CodeSet		344
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		346
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		346
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		346
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		346
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		346
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		346
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		347
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		347
	<b>Traceability</b> <Tracblt>	[0..*]			347
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		347
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		347
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		348
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		348

#### 15.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		344
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		346
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		346

##### 15.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.



CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 15.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 15.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 15.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 15.4.1.3 ExchangeIdentification <Xchgld>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 15.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 15.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 15.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 15.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 15.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		347
	SequenceNumber <SeqNb>	[0..1]	Text		347
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		348
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		348

##### 15.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 15.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 15.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 15.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 15.4.2 ProtectedATMWithdrawalResponse <PrtctdATMWdrwlRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMWithdrawalResponse <PrtctdATMWdrwlRspn>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 15.4.3 ATMWithdrawalResponse <ATMWdrwlRspn>

*Presence:* [0..1]

*Definition:* Information related to the response of an ATM withdrawal transaction from an ATM manager.

**ATMWithdrawalResponse <ATMWdrwlRspn>** contains the following **ATMWithdrawalResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			353
	<b>Acquirer</b> <Acqrr>	[0..1]	±		354
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		355
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		355
	<b>ATM</b> <ATM>	[1..1]	±		355
	<b>Customer</b> <Cstmr>	[1..1]			356
	<b>Profile</b> <Prfl>	[0..1]			357
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		357
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		357
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			357
	<b>Method</b> <Mtd>	[1..1]	CodeSet		358
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		358
	<b>Result</b> <Rslt>	[0..1]	CodeSet		359
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		359
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		359
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		359
	<b>PlainCardData</b> <PlainCardData>	[0..1]			359
	<b>PAN</b> <PAN>	[0..1]	Text		360
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		360
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		360
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		360
	<b>Track1</b> <Trck1>	[0..1]	Text		360
	<b>Track2</b> <Trck2>	[0..1]	Text		361
	<b>Track3</b> <Trck3>	[0..1]	Text		361
	<b>Context</b> <Cntxt>	[1..1]			361
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		361
	<b>Service</b> <Svc>	[0..1]			361
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		362
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		362
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		362

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		362
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		363
	<b>Transaction</b> <Tx>	[1..1]			363
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		367
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		367
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		367
	<b>AccountData</b> <AcctData>	[0..1]			367
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		368
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		369
	<b>AccountName</b> <AcctNm>	[0..1]	Text		370
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			370
	<b>Name</b> <Nm>	[1..1]	Text		370
	<b>Address</b> <Adr>	[1..1]	±		370
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	370
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			371
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	371
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		371
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		372
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			372
	<b>Identification</b> <Id>	[1..1]	Text		372
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		372
	<b>Servicer</b> <Svcr>	[0..1]			372
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	372
Or}	<b>ProprietaryIdentification</b> <Prtryld>	[1..1]	±		373
	<b>Balance</b> <Bal>	[0..1]			373
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	373
	<b>Sign</b> <Sgn>	[0..1]	Indicator		374
	<b>Date</b> <Dt>	[0..1]	Date		374
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		374
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		374
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		374

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		375
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		375
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		375
	<b>CurrencyConversionEligibility</b> <CcyConvsElgbly>	[0..1]			375
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		376
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			377
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	377
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		377
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		377
	<b>Name</b> <Nm>	[0..1]	Text		377
	<b>ResultingAmount</b> <RsltgtAmt>	[1..1]	Amount		377
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		378
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		378
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		378
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		378
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			378
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	378
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		379
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		379
	<b>Name</b> <Nm>	[0..1]	Text		379
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		379
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			379
	<b>Amount</b> <Amt>	[1..1]	Amount		379
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		379
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			380
	<b>Rate</b> <Rate>	[1..1]	Rate		380
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		380
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			380
	<b>Format</b> <Frmt>	[0..1]	CodeSet		380
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		381
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		381

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Limits</b> <Lmts>	[0..1]			381
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	381
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		382
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		382
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			382
	<b>Type</b> <Tp>	[1..1]	Text		382
	<b>Amount</b> <Amt>	[1..1]	Amount		382
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	382
	<b>Label</b> <Lbl>	[0..1]	Text		383
	<b>MixType</b> <MixTp>	[0..1]	Text		383
	<b>Mix</b> <Mix>	[0..*]	±		383
	<b>AuthorisationResult</b> <AuthstnRslt>	[1..1]			383
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		384
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			385
	<b>Response</b> <Rspn>	[1..1]	CodeSet		385
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		385
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		389
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			389
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		389
	<b>Codification</b> <Cdfctn>	[0..1]	Text		389
	<b>Response</b> <Rspn>	[1..1]	Text		390
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		390
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		390
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		390
	<b>Action</b> <Actn>	[0..*]			390
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		390
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			391
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		392
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		392
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		394
	<b>Command</b> <Cmd>	[0..*]			394
	<b>Type</b> <Tp>	[1..1]	CodeSet		394
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		395
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		395
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		395
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		396

#### 15.4.3.1 Environment <Env<

*Presence:* [1..1]

*Definition:* Environment of the withdrawal transaction.

**Environment <Envt>** contains the following **ATMEnvironment12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		354
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		355
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		355
	<b>ATM</b> <ATM>	[1..1]	±		355
	<b>Customer</b> <Cstmr>	[1..1]			356
	<b>Profile</b> <Prfl>	[0..1]			357
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		357
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		357
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			357
	<b>Method</b> <Mtd>	[1..1]	CodeSet		358
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		358
	<b>Result</b> <Rslt>	[0..1]	CodeSet		359
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		359
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		359
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		359
	<b>PlainCardData</b> <PlainCardData>	[0..1]			359
	<b>PAN</b> <PAN>	[0..1]	Text		360
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		360
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		360
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		360
	<b>Track1</b> <Trck1>	[0..1]	Text		360
	<b>Track2</b> <Trck2>	[0..1]	Text		361
	<b>Track3</b> <Trck3>	[0..1]	Text		361

#### 15.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

### 15.4.3.1.2 ATMMgr <ATMMgr>

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMMgr <ATMMgr>** contains the following elements (see "Acquirer8" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <AppVrsn>	[0..1]	Text		1166

### 15.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

### 15.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine2" on page 1175 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 15.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			357
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		357
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		357
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			357
	<b>Method</b> <Mtd>	[1..1]	CodeSet		358
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		358
	<b>Result</b> <Rslt>	[0..1]	CodeSet		359
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		359
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		359

#### 15.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		357
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		357

##### 15.4.3.1.5.1.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

##### 15.4.3.1.5.1.2 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

##### 15.4.3.1.5.2 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		358
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		358
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		359
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		359
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		359

#### 15.4.3.1.5.2.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 15.4.3.1.5.2.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).

CodeName	Name	Definition
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 15.4.3.1.5.2.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 15.4.3.1.5.2.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 15.4.3.1.5.2.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 15.4.3.1.6 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Encryption of the sensitive card data.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 15.4.3.1.7 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		360
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		360
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		360
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		360
	<b>Track1</b> <Trck1>	[0..1]	Text		360
	<b>Track2</b> <Trck2>	[0..1]	Text		361
	<b>Track3</b> <Trck3>	[0..1]	Text		361

#### 15.4.3.1.7.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 15.4.3.1.7.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 15.4.3.1.7.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 15.4.3.1.7.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 15.4.3.1.7.5 Track1 <Trck1>

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318



**15.4.3.1.7.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**15.4.3.1.7.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**15.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		361
	<b>Service</b> <Svc>	[0..1]			361
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		362
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		362
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		362
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		362
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		363

**15.4.3.2.1 SessionReference <SsnRef>**

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

**15.4.3.2.2 Service <Svc>**

*Presence:* [0..1]

*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		362
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		362
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		362
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		362
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		363

#### 15.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 15.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 15.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 15.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of withdrawal selected by the customer.

*Datatype:* "ATMServiceType1Code" on page 1285

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.

**15.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>**

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3 Transaction <Tx>**

*Presence:* [1..1]

*Definition:* Response to the withdrawal transaction request.

**Transaction <Tx>** contains the following **ATMTransaction14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		367
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		367
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		367
	<b>AccountData</b> <AcctData>	[0..1]			367
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		368
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		369
	<b>AccountName</b> <AcctNm>	[0..1]	Text		370
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			370
	<b>Name</b> <Nm>	[1..1]	Text		370
	<b>Address</b> <Adr>	[1..1]	±		370
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	370
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			371
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	371
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		371
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		372
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			372
	<b>Identification</b> <Id>	[1..1]	Text		372
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		372
	<b>Servicer</b> <Svcr>	[0..1]			372
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	372
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		373
	<b>Balance</b> <Bal>	[0..1]			373
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	373
	<b>Sign</b> <Sgn>	[0..1]	Indicator		374
	<b>Date</b> <Dt>	[0..1]	Date		374
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		374
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		374
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		374
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		375
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		375
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		375

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrencyConversionEligibility</b> <CcyConvsElgblty>	[0..1]			375
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		376
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			377
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	377
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		377
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		377
	<b>Name</b> <Nm>	[0..1]	Text		377
	<b>ResultingAmount</b> <RsltgtAmt>	[1..1]	Amount		377
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		378
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		378
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		378
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		378
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			378
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	378
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		379
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		379
	<b>Name</b> <Nm>	[0..1]	Text		379
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		379
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			379
	<b>Amount</b> <Amt>	[1..1]	Amount		379
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		379
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			380
	<b>Rate</b> <Rate>	[1..1]	Rate		380
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		380
	<b>DeclarationDetails</b> <Dclrtndtls>	[0..1]			380
	<b>Format</b> <Frmt>	[0..1]	CodeSet		380
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		381
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		381
	<b>Limits</b> <Lmts>	[0..1]			381
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	381
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		382

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		382
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			382
	<b>Type</b> <Tp>	[1..1]	Text		382
	<b>Amount</b> <Amt>	[1..1]	Amount		382
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	382
	<b>Label</b> <Labl>	[0..1]	Text		383
	<b>MixType</b> <MixTp>	[0..1]	Text		383
	<b>Mix</b> <Mix>	[0..*]	±		383
	<b>AuthorisationResult</b> <AuthstnRslt>	[1..1]			383
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		384
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			385
	<b>Response</b> <Rspn>	[1..1]	CodeSet		385
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		385
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		389
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			389
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		389
	<b>Codification</b> <Cdfctn>	[0..1]	Text		389
	<b>Response</b> <Rspn>	[1..1]	Text		390
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		390
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		390
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		390
	<b>Action</b> <Actn>	[0..*]			390
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		390
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			391
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		392
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		392
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		394

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Command</b> <Cmd>	[0..*]			394
	<b>Type</b> <Tp>	[1..1]	CodeSet		394
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		395
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		395
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		395
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		396

#### 15.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "[TransactionIdentifier1](#)" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 15.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "[Max35Text](#)" on page 1317

#### 15.4.3.3.3 CompletionRequired <CmpltnReqrd>

*Presence:* [0..1]

*Definition:* True if a withdrawal completion advice has to be sent after the end of the transaction.

*Datatype:* One of the following values must be used (see "[TrueFalseIndicator](#)" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 15.4.3.3.4 AccountData <AcctData>

*Presence:* [0..1]

*Definition:* Unprotected account information.

**AccountData <AcctData>** contains the following **CardAccount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		368
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		369
	<b>AccountName</b> <AcctNm>	[0..1]	Text		370
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			370
	<b>Name</b> <Nm>	[1..1]	Text		370
	<b>Address</b> <Adr>	[1..1]	±		370
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	370
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			371
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	371
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		371
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		372
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			372
	<b>Identification</b> <Id>	[1..1]	Text		372
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		372
	<b>Servicer</b> <Svcr>	[0..1]			372
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	372
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		373
	<b>Balance</b> <Bal>	[0..1]			373
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	373
	<b>Sign</b> <Sgn>	[0..1]	Indicator		374
	<b>Date</b> <Dt>	[0..1]	Date		374
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		374
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		374

#### 15.4.3.3.4.1 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.



CodeName	Name	Definition
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 15.4.3.3.4.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

**15.4.3.3.4.3 AccountName <AcctNm>***Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.*Datatype:* "Max70Text" on page 1318**15.4.3.3.4.4 AccountOwner <AcctOwnr>***Presence:* [0..1]*Definition:* Party that legally owns the account.**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		370
	<b>Address</b> <Adr>	[1..1]	±		370

**15.4.3.3.4.4.1 Name <Nm>***Presence:* [1..1]*Definition:* Name by which a party is known and is usually used to identify that identity.*Datatype:* "Max70Text" on page 1318**15.4.3.3.4.4.2 Address <Adr>***Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

**15.4.3.3.4.5 Currency <Ccy>***Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 15.4.3.3.4.6 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	371
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		371
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		372
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			372
	<b>Identification</b> <Id>	[1..1]	Text		372

##### 15.4.3.3.4.6.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

##### 15.4.3.3.4.6.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**15.4.3.3.4.6.3 UPIC <UPIC>***Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPIIdentifier" on page 1313

**15.4.3.3.4.6.4 DomesticAccount <DmstAcct>***Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		372

**15.4.3.3.4.6.4.1 Identification <Id>***Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.4.7 CreditReference <CdtRef>***Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.4.8 Servicer <Svcr>***Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	372
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		373

**15.4.3.3.4.8.1 AnyBIC <AnyBIC>***Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 15.4.3.3.4.8.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 15.4.3.3.4.9 Balance <Bal>

*Presence:* [0..1]

*Definition:* Balance of the account.

**Balance <Bal>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	373
	<b>Sign</b> <Sgn>	[0..1]	Indicator		374
	<b>Date</b> <Dt>	[0..1]	Date		374

#### 15.4.3.3.4.9.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**15.4.3.3.4.9.2 Sign <Sgn>**

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator" on page 1314](#)):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

**15.4.3.3.4.9.3 Date <Dt>**

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate" on page 1312](#)

**15.4.3.3.4.10 BalanceDisplayFlag <BalDispFlg>**

*Presence:* [0..1]

*Definition:* Indicates if the balance must be displayed to the customer on the ATM.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**15.4.3.3.4.11 DefaultAccountIndicator <DfltAcctInd>**

*Presence:* [0..1]

*Definition:* Indicates if this is the default account.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**15.4.3.3.5 ProtectedAccountData <PrctcdAcctData>**

*Presence:* [0..1]

*Definition:* Encryption of account information.

**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**15.4.3.3.6 TotalAuthorisedAmount <TtlAuthrsdAmt>***Presence:* [1..1]*Definition:* Total authorised amount.

**TotalAuthorisedAmount <TtlAuthrsdAmt>** contains the following elements (see "[AmountAndCurrency1](#)" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

**15.4.3.3.7 TotalRequestedAmount <TtlReqdAmt>***Presence:* [0..1]*Definition:* Total requested amount.*Datatype:* "[ImpliedCurrencyAndAmount](#)" on page 1269**15.4.3.3.8 DetailedRequestedAmount <DtldReqdAmt>***Presence:* [0..1]*Definition:* Detail of the requested amounts for the withdrawal transaction.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following elements (see "[DetailedAmount12](#)" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountToDispense <AmtToDspns>	[1..1]	Amount		1167
	Currency <Ccy>	[0..1]	CodeSet	C1	1167
	Fees <Fees>	[0..*]	±		1167
	Donation <Dontn>	[0..*]	±		1167

**15.4.3.3.9 CurrencyConversionEligibility <CcyConvslElgblty>***Presence:* [0..1]

*Definition:* Currency conversion accepted by the customer, either to convert the amount to dispense in the base currency of the ATM, or to convert the total requested amount in the currency of the customer (so called dynamic currency conversion).

**CurrencyConversionEligibility <CcyConvslElgblty>** contains the following **CurrencyConversion9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrencyConversionIdentification &lt;CcyConvslId&gt;</b>	[0..1]	Text		376
	<b>TargetCurrency &lt;TrgtCcy&gt;</b>	[1..1]			377
	<b>AlphaCode &lt;AlphaCd&gt;</b>	[0..1]	CodeSet	C1	377
	<b>NumericCode &lt;NmrcCd&gt;</b>	[0..1]	Text		377
	<b>Decimal &lt;Dcml&gt;</b>	[0..1]	Quantity		377
	<b>Name &lt;Nm&gt;</b>	[0..1]	Text		377
	<b>ResultingAmount &lt;RsltAmt&gt;</b>	[1..1]	Amount		377
	<b>ExchangeRate &lt;XchgRate&gt;</b>	[1..1]	Rate		378
	<b>InvertedExchangeRate &lt;NvrtXchgRate&gt;</b>	[0..1]	Rate		378
	<b>QuotationDate &lt;QtnDt&gt;</b>	[0..1]	DateTime		378
	<b>ValidUntil &lt;VldUntil&gt;</b>	[0..1]	DateTime		378
	<b>SourceCurrency &lt;SrcCcy&gt;</b>	[1..1]			378
	<b>AlphaCode &lt;AlphaCd&gt;</b>	[0..1]	CodeSet	C1	378
	<b>NumericCode &lt;NmrcCd&gt;</b>	[0..1]	Text		379
	<b>Decimal &lt;Dcml&gt;</b>	[0..1]	Quantity		379
	<b>Name &lt;Nm&gt;</b>	[0..1]	Text		379
	<b>OriginalAmount &lt;OrgnlAmt&gt;</b>	[1..1]	Amount		379
	<b>CommissionDetails &lt;ComssnDtls&gt;</b>	[0..*]			379
	<b>Amount &lt;Amt&gt;</b>	[1..1]	Amount		379
	<b>AdditionalInformation &lt;AddtlInf&gt;</b>	[0..1]	Text		379
	<b>MarkUpDetails &lt;MrkUpDtls&gt;</b>	[0..*]			380
	<b>Rate &lt;Rate&gt;</b>	[1..1]	Rate		380
	<b>AdditionalInformation &lt;AddtlInf&gt;</b>	[0..1]	Text		380
	<b>DeclarationDetails &lt;DclrtnDtls&gt;</b>	[0..1]			380
	<b>Format &lt;Frmt&gt;</b>	[0..1]	CodeSet		380
	<b>MessageContent &lt;MsgCntt&gt;</b>	[1..1]	Text		381

#### 15.4.3.3.9.1 CurrencyConversionIdentification <CcyConvslId>

*Presence:* [0..1]

*Definition:* Identification of the currency conversion operation.

*Datatype:* "Max35Text" on page 1317



**15.4.3.3.9.2 TargetCurrency <TrgtCcy>**

*Presence:* [1..1]

*Definition:* Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

**TargetCurrency <TrgtCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	377
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		377
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		377
	<b>Name</b> <Nm>	[0..1]	Text		377

**15.4.3.3.9.2.1 AlphaCode <AlphaCd>**

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**15.4.3.3.9.2.2 NumericCode <NmrcCd>**

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

**15.4.3.3.9.2.3 Decimal <Dcml>**

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

**15.4.3.3.9.2.4 Name <Nm>**

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.9.3 ResultingAmount <RsltAmt>**

*Presence:* [1..1]

*Definition:* Amount converted in the target currency, including commission and mark-up.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 15.4.3.3.9.4 ExchangeRate <XchgRate>

*Presence:* [1..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the original amount into the resulting amount.

*Datatype:* "PercentageRate" on page 1315

#### 15.4.3.3.9.5 InvertedExchangeRate <NvrtdXchgRate>

*Presence:* [0..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the resulting amount into the original amount.

*Datatype:* "PercentageRate" on page 1315

#### 15.4.3.3.9.6 QuotationDate <QtnDt>

*Presence:* [0..1]

*Definition:* Date and time at which the exchange rate has been quoted.

*Datatype:* "ISODateTime" on page 1312

#### 15.4.3.3.9.7 ValidUntil <VldUntil>

*Presence:* [0..1]

*Definition:* Validity limit of the exchange rate.

*Datatype:* "ISODateTime" on page 1312

#### 15.4.3.3.9.8 SourceCurrency <SrcCcy>

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 alphanumeric characters).

**SourceCurrency <SrcCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	378
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		379
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		379
	<b>Name</b> <Nm>	[0..1]	Text		379

##### 15.4.3.3.9.8.1 AlphaCode <AlphaCd>

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**15.4.3.3.9.8.2 NumericCode <NmrcCd>**

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

**15.4.3.3.9.8.3 Decimal <Dcml>**

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

**15.4.3.3.9.8.4 Name <Nm>**

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.9.9 OriginalAmount <OrgnlAmt>**

*Presence:* [1..1]

*Definition:* Original amount in the source currency.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**15.4.3.3.9.10 CommissionDetails <ComssnDtls>**

*Presence:* [0..\*]

*Definition:* Commission or additional charges made as part of a currency conversion.

**CommissionDetails <ComssnDtls>** contains the following **Commission19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		379
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		379

**15.4.3.3.9.10.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Commission expressed as an amount of money.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**15.4.3.3.9.10.2 AdditionalInformation <AddtlInf>**

*Presence:* [0..1]

*Definition:* Additional information about the type of commission.

*Datatype:* "Max350Text" on page 1317

#### 15.4.3.3.9.11 MarkupDetails <MrkUpDtls>

*Presence:* [0..\*]

*Definition:* Mark-up made as part of a currency conversion.

**MarkupDetails <MrkUpDtls>** contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Rate</b> <Rate>	[1..1]	Rate		380
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		380

##### 15.4.3.3.9.11.1 Rate <Rate>

*Presence:* [1..1]

*Definition:* Commission expressed as a percentage.

*Datatype:* "PercentageRate" on page 1315

##### 15.4.3.3.9.11.2 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information about the type of markup.

*Datatype:* "Max350Text" on page 1317

#### 15.4.3.3.9.12 DeclarationDetails <DclrtnDtls>

*Presence:* [0..1]

*Definition:* Card scheme declaration (disclaimer) to present to the cardholder.

**DeclarationDetails <DclrtnDtls>** contains the following **ActionMessage5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		380
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		381

##### 15.4.3.3.9.12.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Format of the content.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

**15.4.3.3.9.12.2 MessageContent <MsgCntt>***Presence:* [1..1]*Definition:* Text or graphic data to be display or printed to the cardholder or the cashier.*Datatype:* "Max20000Text" on page 1316**15.4.3.3.10 AdditionalCharge <AddtlChrg>***Presence:* [0..\*]*Definition:* Additional charge (for instance tax or fee).**AdditionalCharge <AddtlChrg>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

**15.4.3.3.11 Limits <Lmts>***Presence:* [0..1]*Definition:* Limit of amounts for the customer.**Limits <Lmts>** contains the following **ATMTransactionAmounts6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	381
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		382
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		382
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			382
	<b>Type</b> <Tp>	[1..1]	Text		382
	<b>Amount</b> <Amt>	[1..1]	Amount		382
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	382
	<b>Label</b> <Labl>	[0..1]	Text		383

**15.4.3.3.11.1 Currency <Ccy>***Presence:* [0..1]*Definition:* Default currency of the limits.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**15.4.3.3.11.2 MaximumPossibleAmount <MaxPssblAmt>**

*Presence:* [0..1]

*Definition:* Maximum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**15.4.3.3.11.3 MinimumPossibleAmount <MinPssblAmt>**

*Presence:* [0..1]

*Definition:* Minimum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**15.4.3.3.11.4 AdditionalAmount <AddtlAmt>**

*Presence:* [0..\*]

*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.

**AdditionalAmount <AddtlAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	Text		382
	<b>Amount</b> <Amt>	[1..1]	Amount		382
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	382
	<b>Label</b> <Lbl>	[0..1]	Text		383

**15.4.3.3.11.4.1 Type <Tp>**

*Presence:* [1..1]

*Definition:* Type of amount.

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.11.4.2 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**15.4.3.3.11.4.3 Currency <Ccy>**

*Presence:* [0..1]

*Definition:* Currency of the amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 15.4.3.3.11.4.4 Label <Labl>

Presence: [0..1]

Definition: Description of the amount that may be provided to the customer.

Datatype: "Max70Text" on page 1318

#### 15.4.3.3.12 MixType <MixTp>

Presence: [0..1]

Definition: Media mix algorithm requested by the ATM Host, the identification of the algorithm is an agreement between the ATM and the ATM manager.

Datatype: "Max35Text" on page 1317

#### 15.4.3.3.13 Mix <Mix>

Presence: [0..\*]

Definition: Media mix selected requested by the ATM Host.

**Mix <Mix>** contains the following elements (see "ATMMediaMix1" on page 1180 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CashUnitNumber <CshUnitNb>	[0..1]	Quantity		1180
	Number <Nb>	[1..1]	Quantity		1180
	UnitValue <UnitVal>	[1..1]	Amount		1181

#### 15.4.3.3.14 AuthorisationResult <AuthstnRsIt>

Presence: [1..1]

Definition: Outcome of the withdrawal authorisation.

**AuthorisationResult <AuthstnRslt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		384
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			385
	<b>Response</b> <Rspn>	[1..1]	CodeSet		385
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		385
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		389
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			389
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		389
	<b>Codification</b> <Cdfctn>	[0..1]	Text		389
	<b>Response</b> <Rspn>	[1..1]	Text		390
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		390
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		390
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		390
	<b>Action</b> <Actn>	[0..*]			390
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		390
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			391
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		392
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		392

#### 15.4.3.3.14.1 AuthorisationEntity <AuthstnNtty>

*Presence:* [0..1]

*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).

*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.



CodeName	Name	Definition
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 15.4.3.3.14.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		385
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		385
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		389

##### 15.4.3.3.14.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 15.4.3.3.14.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.

CodeName	Name	Definition
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.

CodeName	Name	Definition
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.

CodeName	Name	Definition
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.

CodeName	Name	Definition
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 15.4.3.3.14.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 15.4.3.3.14.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		389
	<b>Codification</b> <Cdfctn>	[0..1]	Text		389
	<b>Response</b> <Rspn>	[1..1]	Text		390
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		390
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		390

#### 15.4.3.3.14.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

#### 15.4.3.3.14.3.2 Codification <Cdfctn>

*Presence:* [0..1]

*Definition:* Codification of the response (for instance ISO 8583, IFX).

*Datatype:* "Max35Text" on page 1317

**15.4.3.3.14.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**15.4.3.3.14.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**15.4.3.3.14.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**15.4.3.3.14.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**15.4.3.3.14.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		390
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			391
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		392
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		392

**15.4.3.3.14.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 15.4.3.3.14.5.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		391
	<b>Message</b> <Msg>	[0..1]	Text		392
	<b>Reference</b> <Ref>	[0..1]	Text		392
	<b>Device</b> <Dvc>	[0..1]	CodeSet		392
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		392

#### 15.4.3.3.14.5.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.

CodeName	Name	Definition
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

**15.4.3.3.14.5.2.2 Message <Msg>***Presence:* [0..1]*Definition:* Content of the message.*Datatype:* "Max20000Text" on page 1316**15.4.3.3.14.5.2.3 Reference <Ref>***Presence:* [0..1]*Definition:* Message content if this is a message reference or screen reference.*Datatype:* "Max35Text" on page 1317**15.4.3.3.14.5.2.4 Device <Dvc>***Presence:* [0..1]*Definition:* Device to be used.*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

**15.4.3.3.14.5.2.5 MessageContentSignature <MsgCnttSgntr>***Presence:* [0..1]*Definition:* Electronic signature of the message to display or print.*Datatype:* "Max35Binary" on page 1270**15.4.3.3.14.5.3 RequestToPerform <ReqToPrfrm>***Presence:* [0..1]*Definition:* Message to send before the completion of the transaction.*Datatype:* "MessageFunction11Code" on page 1300



CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAP	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 15.4.3.3.15 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 15.4.3.3.16 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		394
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		395
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		395
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		395
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		396

##### 15.4.3.3.16.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.

CodeName	Name	Definition
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 15.4.3.3.16.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 15.4.3.3.16.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 15.4.3.3.16.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 15.4.3.3.16.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

### 15.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		396
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		397

#### 15.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 15.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# 16      **catp.003.001.02**

## **ATMWithdrawalCompletionAdviceV02**

### **16.1    MessageDefinition Functionality**

The ATMWithdrawalCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a withdrawal transaction at an ATM.

If the ATM is configured to only send negative completion, a generic completion message should be used instead of ATMCompletionAdvice.

#### Outline

The ATMWithdrawalCompletionAdviceV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header
  - Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMWithdrawalCompletionAdvice
  - Encrypted body of the message.
- C. ATMWithdrawalCompletionAdvice
  - Information related to the completion of a withdrawal transaction on the ATM.
- D. SecurityTrailer
  - Trailer of the message containing a MAC.

## 16.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMWdrwlCmpltnAdv>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			407
	<b>MessageFunction</b> <MsgFctn>	[1..1]			407
	<b>Function</b> <Fctn>	[1..1]	CodeSet		408
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		409
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		409
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		409
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		410
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		410
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		410
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		410
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		410
	<b>ProcessState</b> <PrclStat>	[0..1]	Text		410
	<b>Traceability</b> <Tracblt>	[0..*]			410
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		411
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		411
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		411
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		411
	<b>ProtectedATMWithdrawalCompletionAdvice</b> <PrctcdATMWdrwlCmpltnAdv>	[0..1]	±		411
	<b>ATMWithdrawalCompletionAdvice</b> <ATMWdrwlCmpltnAdv>	[0..1]			412
	<b>Environment</b> <Env>	[1..1]			419
	<b>Acquirer</b> <Acqrr>	[0..1]	±		422
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		422
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		422
	<b>ATM</b> <ATM>	[1..1]			423
	<b>Identification</b> <Id>	[1..1]	Text		425
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		425
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		425
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	425

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Location</b> <Lctn>	[0..1]			426
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		426
	<b>StreetName</b> <StrtNm>	[0..1]	Text		427
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		427
	<b>PostCode</b> <PstCd>	[0..1]	Text		427
	<b>TownName</b> <TwnNm>	[1..1]	Text		427
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		427
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	427
	<b>GeoLocation</b> <GLctn>	[0..1]			427
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		429
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		429
	<b>Capabilities</b> <Cpblties>	[0..1]			429
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		430
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		430
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		431
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		431
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		431
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		431
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		432
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		432
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		432
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			432
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	434
	<b>Equipment</b> <Eqpmnt>	[0..1]			434
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		434
	<b>Model</b> <Mdl>	[0..1]	Text		434
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		434
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		435
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		435
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		435
	<b>ApprovalNumber</b> <AprvlNb>	[0..1]	Text		435
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			435
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436
	<b>Customer</b> <Cstmr>	[1..1]			436
	<b>Profile</b> <Prfl>	[0..1]			436
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		437
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		437
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		437
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	437
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			438
	<b>Method</b> <Mtd>	[1..1]	CodeSet		438
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		438
	<b>Result</b> <Rslt>	[0..1]	CodeSet		439
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		439
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		439
	<b>Card</b> <Card>	[0..1]			439
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		440
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		441
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		441
	<b>PlainCardData</b> <PlainCardData>	[0..1]			441
	<b>PAN</b> <PAN>	[0..1]	Text		442

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		442
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		442
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		442
	<b>Track1</b> <Trck1>	[0..1]	Text		442
	<b>Track2</b> <Trck2>	[0..1]	Text		442
	<b>Track3</b> <Trck3>	[0..1]	Text		442
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		442
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		443
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	443
	<b>Context</b> <Cntxt>	[1..1]			443
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		443
	<b>Service</b> <Svc>	[0..1]			443
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		444
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		444
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		444
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		444
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		445
	<b>Transaction</b> <Tx>	[1..1]			445
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		449
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		450
	<b>MultiBundle</b> <MultiBndl>	[0..1]	Indicator		450
	<b>BundlePresentedAmount</b> <BndlPresntdAmt>	[0..*]	Amount		450
	<b>PresentedAmountStatus</b> <PresntdAmtSts>	[1..1]	CodeSet		450
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		450
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		451
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		452
	<b>AccountData</b> <AcctData>	[0..1]			452
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		452
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		453
	<b>AccountName</b> <AcctNm>	[0..1]	Text		453
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	454

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			454
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	454
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		455
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		455
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			455
	<b>Identification</b> <Id>	[1..1]	Text		455
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		455
	<b>Servicer</b> <Svcr>	[0..1]			455
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	456
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		456
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		456
	<b>TotalPresentedAmount</b> <TtlPresntdAmt>	[1..1]	±		457
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[0..1]	Amount		457
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		457
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		457
	<b>CurrencyConversionResult</b> <CcyConvrsRslt>	[0..1]			458
	<b>CurrencyConversionIdentification</b> <CcyConvslId>	[0..1]	Text		459
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			459
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	459
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		459
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		459
	<b>Name</b> <Nm>	[0..1]	Text		459
	<b>ResultingAmount</b> <RsltgtAmt>	[1..1]	Amount		460
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		460
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		460
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		460
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		460
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			460
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	460
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		461
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		461

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		461
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		461
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			461
	<b>Amount</b> <Amt>	[1..1]	Amount		461
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			462
	<b>Rate</b> <Rate>	[1..1]	Rate		462
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			462
	<b>Format</b> <Frmt>	[0..1]	CodeSet		462
	<b>MessageContent</b> <MsgCnt>	[1..1]	Text		463
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		463
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		463
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		463
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		463
	<b>Limits</b> <Lmts>	[0..1]			464
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	464
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		464
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		465
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			465
	<b>Type</b> <Tp>	[1..1]	Text		465
	<b>Amount</b> <Amt>	[1..1]	Amount		465
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	465
	<b>Label</b> <Lbl>	[0..1]	Text		465
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			466
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		466
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			467
	<b>Response</b> <Rspn>	[1..1]	CodeSet		467
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		467
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		471
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			471

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		471
	<b>Codification</b> <Cdfctn>	[0..1]	Text		472
	<b>Response</b> <Rspn>	[1..1]	Text		472
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		472
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		472
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		472
	<b>Action</b> <Actn>	[0..*]			472
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		473
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			473
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		474
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		476
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		476
	<b>Cassette</b> <Csstt>	[0..*]			476
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		477
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		477
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		478
	<b>Type</b> <Tp>	[1..1]	CodeSet		478
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		478
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		478
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			479
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		479
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	479
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		480
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		480
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		480
	<b>FlowTotals</b> <FlowTtls>	[0..*]			480

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			482
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		482
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		483

## 16.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 ValidationByTable

Must be a valid terrestrial language.

### C6 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 16.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 16.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			407
	<b>Function</b> <Fctn>	[1..1]	CodeSet		408
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		409
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		409
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		409
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		410
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		410
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		410
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		410
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		410
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		410
	<b>Traceability</b> <Tracblt>	[0..*]			410
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		411
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		411
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		411
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		411

#### 16.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		408
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		409
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		409

#### 16.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.



CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 16.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 16.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 16.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**16.4.1.3 ExchangeIdentification <XchgId>**

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

**16.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>**

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**16.4.1.5 CreationDateTime <CreDtTm>**

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

**16.4.1.6 InitiatingParty <InitgPty>**

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

**16.4.1.7 RecipientParty <RcptPty>**

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

**16.4.1.8 ProcessState <PrcStat>**

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

**16.4.1.9 Traceability <Tracblt>**

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		411
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		411
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		411
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		411

#### 16.4.1.9.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 16.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 16.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 16.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

## 16.4.2 ProtectedATMWithdrawalCompletionAdvice <PrtctdATMWdrwlCmpltnAdv>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMWithdrawalCompletionAdvice** <PrtctdATMWdrwlCmpltnAdv< contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 16.4.3      **ATMWithdrawalCompletionAdvice** **<ATMWdrwlCmpltnAdv<**

*Presence:* [0..1]

*Definition:* Information related to the completion of a withdrawal transaction on the ATM.

**ATMWithdrawalCompletionAdvice <ATMWdrwlCmpltnAdv>** contains the following **ATMWithdrawalCompletionAdvice2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			419
	<b>Acquirer</b> <Acqrr>	[0..1]	±		422
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		422
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		422
	<b>ATM</b> <ATM>	[1..1]			423
	<b>Identification</b> <Id>	[1..1]	Text		425
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		425
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		425
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	425
	<b>Location</b> <Lctn>	[0..1]			426
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		426
	<b>StreetName</b> <StrtNm>	[0..1]	Text		427
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		427
	<b>PostCode</b> <PstCd>	[0..1]	Text		427
	<b>TownName</b> <TwnNm>	[1..1]	Text		427
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		427
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	427
	<b>GeoLocation</b> <GLctn>	[0..1]			427
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		429
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		429
	<b>Capabilities</b> <Cpblties>	[0..1]			429
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		430
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		430
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		431

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		431
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		431
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		431
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		432
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		432
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		432
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			432
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	434
	<b>Equipment</b> <Eqpmnt>	[0..1]			434
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		434
	<b>Model</b> <Mdl>	[0..1]	Text		434
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		434
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		435
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		435
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		435
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		435
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			435
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436
	<b>Customer</b> <Cstmr>	[1..1]			436
	<b>Profile</b> <Prfl>	[0..1]			436
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		437
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		437
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		437
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	437
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			438
	<b>Method</b> <Mtd>	[1..1]	CodeSet		438

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		438
	<b>Result</b> <RsIt>	[0..1]	CodeSet		439
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		439
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		439
	<b>Card</b> <Card>	[0..1]			439
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		440
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		441
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		441
	<b>PlainCardData</b> <PlainCardData>	[0..1]			441
	<b>PAN</b> <PAN>	[0..1]	Text		442
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		442
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		442
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		442
	<b>Track1</b> <Trck1>	[0..1]	Text		442
	<b>Track2</b> <Trck2>	[0..1]	Text		442
	<b>Track3</b> <Trck3>	[0..1]	Text		442
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		442
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		443
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	443
	<b>Context</b> <Cntxt>	[1..1]			443
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		443
	<b>Service</b> <Svc>	[0..1]			443
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		444
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		444
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		444
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		444
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		445
	<b>Transaction</b> <Tx>	[1..1]			445
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		449
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		450
	<b>MultiBundle</b> <MultiBndl>	[0..1]	Indicator		450

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>BundlePresentedAmount</b> <BndIPresntdAmt>	[0..*]	Amount		450
	<b>PresentedAmountStatus</b> <PresntdAmtSts>	[1..1]	CodeSet		450
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		450
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		451
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		452
	<b>AccountData</b> <AcctData>	[0..1]			452
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		452
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		453
	<b>AccountName</b> <AcctNm>	[0..1]	Text		453
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	454
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			454
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	454
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		455
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		455
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			455
	<b>Identification</b> <Id>	[1..1]	Text		455
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		455
	<b>Servicer</b> <Svcr>	[0..1]			455
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	456
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		456
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		456
	<b>TotalPresentedAmount</b> <TtlPresntdAmt>	[1..1]	±		457
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[0..1]	Amount		457
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		457
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		457
	<b>CurrencyConversionResult</b> <CcyConvsRslt>	[0..1]			458
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		459
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			459
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	459
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		459
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		459



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		459
	<b>ResultingAmount</b> <RsItgAmt>	[1..1]	Amount		460
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		460
	<b>InvertedExchangeRate</b> <NvrtXchgRate>	[0..1]	Rate		460
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		460
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		460
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			460
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	460
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		461
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		461
	<b>Name</b> <Nm>	[0..1]	Text		461
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		461
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			461
	<b>Amount</b> <Amt>	[1..1]	Amount		461
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			462
	<b>Rate</b> <Rate>	[1..1]	Rate		462
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			462
	<b>Format</b> <Frmt>	[0..1]	CodeSet		462
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		463
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		463
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		463
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		463
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		463
	<b>Limits</b> <Lmts>	[0..1]			464
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	464
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		464
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		465
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			465
	<b>Type</b> <Tp>	[1..1]	Text		465

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		465
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	465
	<b>Label</b> <Labl>	[0..1]	Text		465
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			466
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		466
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			467
	<b>Response</b> <Rspn>	[1..1]	CodeSet		467
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		467
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		471
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			471
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		471
	<b>Codification</b> <Cdfctn>	[0..1]	Text		472
	<b>Response</b> <Rspn>	[1..1]	Text		472
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		472
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		472
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		472
	<b>Action</b> <Actn>	[0..*]			472
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		473
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			473
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		474
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		476
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		476
	<b>Cassette</b> <Csstt>	[0..*]			476
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		477
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		477
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		478

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		478
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		478
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		478
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			479
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		479
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	479
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		480
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		480
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		480
	<b>FlowTotals</b> <FlowTtls>	[0..*]			480
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstddNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482

#### 16.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the withdrawal transaction.

**Environment <Envt>** contains the following **ATMEnvironment13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		422
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		422
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		422
	<b>ATM</b> <ATM>	[1..1]			423
	<b>Identification</b> <Id>	[1..1]	Text		425
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		425
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		425
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	425
	<b>Location</b> <Lctn>	[0..1]			426
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		426
	<b>StreetName</b> <StrtNm>	[0..1]	Text		427
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		427
	<b>PostCode</b> <PstCd>	[0..1]	Text		427
	<b>TownName</b> <TwnNm>	[1..1]	Text		427
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		427
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	427
	<b>GeoLocation</b> <GLctn>	[0..1]			427
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		429
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		429
	<b>Capabilities</b> <Cpblties>	[0..1]			429
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		430
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		430
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		431
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		431
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		431

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		431
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		432
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		432
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		432
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			432
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlbfFrmnt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	434
	<b>Equipment</b> <Eqpmnt>	[0..1]			434
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		434
	<b>Model</b> <Mdl>	[0..1]	Text		434
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		434
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		435
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		435
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		435
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		435
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			435
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436
	<b>Customer</b> <Cstmr>	[1..1]			436
	<b>Profile</b> <Prfl>	[0..1]			436
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		437
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		437
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		437
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	437
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			438
	<b>Method</b> <Mtd>	[1..1]	CodeSet		438
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		438
	<b>Result</b> <Rslt>	[0..1]	CodeSet		439

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		439
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		439
	<b>Card</b> <Card>	[0..1]			439
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		440
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		441
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		441
	<b>PlainCardData</b> <PlainCardData>	[0..1]			441
	<b>PAN</b> <PAN>	[0..1]	Text		442
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		442
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		442
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		442
	<b>Track1</b> <Trck1>	[0..1]	Text		442
	<b>Track2</b> <Trck2>	[0..1]	Text		442
	<b>Track3</b> <Trck3>	[0..1]	Text		442
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		442
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		443
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	443

#### 16.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 16.4.3.1.2 ATMMManagerIdentification <ATMMgrld>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 16.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		425
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		425
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		425
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	425
	<b>Location</b> <Lctn>	[0..1]			426
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		426
	<b>StreetName</b> <StrtNm>	[0..1]	Text		427
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		427
	<b>PostCode</b> <PstCd>	[0..1]	Text		427
	<b>TownName</b> <TwnNm>	[1..1]	Text		427
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		427
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	427
	<b>GeoLocation</b> <GLctn>	[0..1]			427
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		429
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		429
	<b>Capabilities</b> <Cpbilities>	[0..1]			429
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		430
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		430
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		431
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		431
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		431
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		431
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		432
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		432
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		432



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			432
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	434
	<b>Equipment</b> <Eqpmnt>	[0..1]			434
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		434
	<b>Model</b> <Mdl>	[0..1]	Text		434
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		434
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		435
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		435
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		435
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		435
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			435
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436

#### 16.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 16.4.3.1.4.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		426
	<b>StreetName</b> <StrtNm>	[0..1]	Text		427
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		427
	<b>PostCode</b> <PstCd>	[0..1]	Text		427
	<b>TownName</b> <TwnNm>	[1..1]	Text		427
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		427
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	427
	<b>GeoLocation</b> <GLctn>	[0..1]			427
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwrd>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwrd>	[1..1]	Quantity		429

#### 16.4.3.1.4.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

**16.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**16.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**16.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**16.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**16.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**16.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**16.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			428
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			428
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		429

#### 16.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		428
	<b>Longitude</b> <Long>	[1..1]	Text		428

##### 16.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 16.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 16.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		429
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		429
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		429

#### 16.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 16.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 16.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 16.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 16.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		430
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		430
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		431
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		431
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		431
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		431
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		432
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		432
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		432
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			432
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	434

#### 16.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 16.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 16.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 16.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 16.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 16.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**16.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**16.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**16.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**16.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.



**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		433
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		433
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		433
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		433
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	434

#### 16.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 16.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 16.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 16.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**16.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**16.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		434
	<b>Model</b> <Mdl>	[0..1]	Text		434
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		434
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		435
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		435
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		435
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		435
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			435
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436

**16.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**16.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**16.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		435
	<b>Version</b> <Vrsn>	[1..1]	Text		436

##### 16.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 16.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			436
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		437
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		437
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		437
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	437
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			438
	<b>Method</b> <Mtd>	[1..1]	CodeSet		438
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		438
	<b>Result</b> <Rslt>	[0..1]	CodeSet		439
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		439
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		439

#### 16.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the service.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		437
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		437
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		437

#### 16.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 16.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.5.1.3 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**16.4.3.1.5.3 AuthenticationResult <AuthntcnRslt>**

*Presence:* [1..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		438
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		438
	<b>Result</b> <Rslt>	[0..1]	CodeSet		439
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		439
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		439

**16.4.3.1.5.3.1 Method <Mtd>**

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**16.4.3.1.5.3.2 VerificationEntity <VrfctnNtty>**

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 16.4.3.1.5.3.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 16.4.3.1.5.3.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 16.4.3.1.5.3.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 16.4.3.1.6 Card <Card>

*Presence:* [0..1]

*Definition:* Card performing the transaction.

**Card <Card>** contains the following **PaymentCard23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		440
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		441
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		441
	<b>PlainCardData</b> <PlainCardData>	[0..1]			441
	<b>PAN</b> <PAN>	[0..1]	Text		442
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		442
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		442
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		442
	<b>Track1</b> <Trck1>	[0..1]	Text		442
	<b>Track2</b> <Trck2>	[0..1]	Text		442
	<b>Track3</b> <Trck3>	[0..1]	Text		442
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		442
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		443
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	443

#### 16.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>

*Presence:* [1..1]

*Definition:* Entry mode that used to obtain the card data.

*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).



**16.4.3.1.6.2 FallbackIndicator <FllbckInd>***Presence:* [0..1]*Definition:* Indicate the occurrence of a fall-back on the card entry mode.*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

**16.4.3.1.6.3 ProtectedCardData <PrctcdCardData>***Presence:* [0..1]*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**16.4.3.1.6.4 PlainCardData <PlainCardData>***Presence:* [0..1]*Definition:* Sensitive data associated with the card performing the transaction.**PlainCardData <PlainCardData>** contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		442
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		442
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		442
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		442
	<b>Track1</b> <Trck1>	[0..1]	Text		442
	<b>Track2</b> <Trck2>	[0..1]	Text		442
	<b>Track3</b> <Trck3>	[0..1]	Text		442

**16.4.3.1.6.4.1 PAN <PAN>**

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

**16.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>**

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

**16.4.3.1.6.4.3 EffectiveDate <FctvDt>**

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**16.4.3.1.6.4.4 ExpiryDate <XpryDt>**

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**16.4.3.1.6.4.5 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**16.4.3.1.6.4.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**16.4.3.1.6.4.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**16.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

#### 16.4.3.1.6.6 CardCurrencyCode <CardCcyCd>

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

#### 16.4.3.1.6.7 ElectronicPurseBalance <ElctrncPrsBal>

*Presence:* [0..1]

*Definition:* Balance of the captured card or epurse if available.

*Impacted by:* C6 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

##### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 16.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		443
	<b>Service</b> <Svc>	[0..1]			443
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		444
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		444
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		444
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		444
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		445

##### 16.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

##### 16.4.3.2.2 Service <Svc>

*Presence:* [0..1]

*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		444
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		444
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		444
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		444
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		445

#### 16.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of withdrawal selected by the customer.

*Datatype:* "ATMServiceType1Code" on page 1285

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.

**16.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>**

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3 Transaction <Tx>**

*Presence:* [1..1]

*Definition:* Withdrawal transaction for which the completion is sent.

**Transaction <Tx>** contains the following **ATMTransaction17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		449
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		450
	<b>MultiBundle</b> <MultiBndl>	[0..1]	Indicator		450
	<b>BundlePresentedAmount</b> <BndlPresntdAmt>	[0..*]	Amount		450
	<b>PresentedAmountStatus</b> <PresntdAmtSts>	[1..1]	CodeSet		450
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		450
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		451
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		452
	<b>AccountData</b> <AcctData>	[0..1]			452
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		452
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		453
	<b>AccountName</b> <AcctNm>	[0..1]	Text		453
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	454
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			454
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	454
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		455
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		455
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			455
	<b>Identification</b> <Id>	[1..1]	Text		455
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		455
	<b>Servicer</b> <Svcr>	[0..1]			455
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	456
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		456
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		456
	<b>TotalPresentedAmount</b> <TtlPresntdAmt>	[1..1]	±		457
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[0..1]	Amount		457
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		457
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		457
	<b>CurrencyConversionResult</b> <CcyConvsRslt>	[0..1]			458
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		459
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			459

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	459
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		459
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		459
	<b>Name</b> <Nm>	[0..1]	Text		459
	<b>ResultingAmount</b> <RsltgAmt>	[1..1]	Amount		460
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		460
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		460
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		460
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		460
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			460
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	460
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		461
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		461
	<b>Name</b> <Nm>	[0..1]	Text		461
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		461
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			461
	<b>Amount</b> <Amt>	[1..1]	Amount		461
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			462
	<b>Rate</b> <Rate>	[1..1]	Rate		462
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			462
	<b>Format</b> <Frmt>	[0..1]	CodeSet		462
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		463
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		463
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		463
	<b>ReceiptPrinted</b> <RctPrtD>	[0..1]	Indicator		463
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		463
	<b>Limits</b> <Lmts>	[0..1]			464
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	464
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		464

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		465
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			465
	<b>Type</b> <Tp>	[1..1]	Text		465
	<b>Amount</b> <Amt>	[1..1]	Amount		465
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	465
	<b>Label</b> <Labl>	[0..1]	Text		465
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			466
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		466
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			467
	<b>Response</b> <Rspn>	[1..1]	CodeSet		467
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		467
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		471
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			471
	<b>ResponderIdentification</b> <Rspndrld>	[1..1]	Text		471
	<b>Codification</b> <Cdftcn>	[0..1]	Text		472
	<b>Response</b> <Rspn>	[1..1]	Text		472
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		472
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		472
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		472
	<b>Action</b> <Actn>	[0..*]			472
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		473
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			473
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		474
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		476
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		476
	<b>Cassette</b> <Csstt>	[0..*]			476



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		477
	<b>LogicalIdentification</b> <LogcId>	[1..1]	Text		477
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		478
	<b>Type</b> <Tp>	[1..1]	CodeSet		478
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		478
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		478
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			479
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		479
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	479
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		480
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		480
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		480
	<b>FlowTotals</b> <FlowTtls>	[0..*]			480
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482

#### 16.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

**16.4.3.3.2 TransactionStatus <TxSts>***Presence:* [1..1]*Definition:* Outcome of the financial transaction for the customer.*Datatype:* "ATMTransactionStatus1Code" on page 1288

CodeName	Name	Definition
DOBT	Doubt	Undetermined status, for instance possibly forgotten notes.
FAIL	Failure	Transaction failed.
SCSS	Success	Transaction was successfully completed.

**16.4.3.3.3 MultiBundle <MultiBndl>***Presence:* [0..1]*Definition:* Multi bundle dispense.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**16.4.3.3.4 BundlePresentedAmount <BndIPresntdAmt>***Presence:* [0..\*]*Definition:* Amount per bundle in the currency of the total presented amount, in the order of the presentation.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**16.4.3.3.5 PresentedAmountStatus <PresntdAmtSts>***Presence:* [1..1]*Definition:* Status of the amount presented to the customer in the last bundle.*Datatype:* "ATMTransactionStatus2Code" on page 1288

CodeName	Name	Definition
FULL	Full	Total presented amount is equal to the amount to dispense.
PART	Partial	Total presented amount is lower than the amount to dispense.
NONE	None	Total presented amount is equal to zero.

**16.4.3.3.6 Incident <IncDnt>***Presence:* [0..\*]*Definition:* Incident occurring during the processing of the transaction.*Datatype:* "FailureReason7Code" on page 1297

CodeName	Name	Definition
CDCP	CardCaptured	ATM manager has requested to capture the card.
CDCL	CardDeclined	Integrated circuit card declines the transaction before or after the authorisation.
CDER	CardError	Unable to complete transaction with the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CUDC	CustomerDecline	Customer has declined additional fees or a lower amount, transaction fails.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
FILL	FulfillmentError	Unable to fulfil, for instance dispensing the cash.
MALF	Malfunction	Suspected malfunction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
TIMO	TimeOut	Timeout while waiting for a response to a request message, or no response was received (for example connection release before receiving the response).
LATE	TooLateResponse	Response to the previous message was received too late.
UCPT	UnableToCapture	Unable to capture the card as requested.
UCMP	UnableToComplete	Unable to complete the transaction after the authorisation response.
USND	UnableToSend	Unable to deliver the request message to the recipient party.
CSRV	OutOfCustomerService	ATM manager has requested to the ATM to stop customer services.
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CUTO	CustomerTimeOut	Customer has not been performed in time an action.

#### 16.4.3.3.7 IncidentDetail <IncDntDtl>

*Presence:* [0..\*]

*Definition:* Explanation of the incident.

*Datatype:* "Max70Text" on page 1318

**16.4.3.3.8 ReconciliationIdentification <RcncltnId>***Presence:* [0..1]*Definition:* Identification of the reconciliation period assigned by the ATM.*Datatype:* "Max35Text" on page 1317**16.4.3.3.9 AccountData <AcctData>***Presence:* [0..1]*Definition:* Unprotected account information.**AccountData <AcctData>** contains the following **CardAccount11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		452
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		453
	<b>AccountName</b> <AcctNm>	[0..1]	Text		453
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	454
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			454
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	454
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		455
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		455
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			455
	<b>Identification</b> <Id>	[1..1]	Text		455
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		455
	<b>Servicer</b> <Svcr>	[0..1]			455
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	456
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		456

**16.4.3.3.9.1 SelectionMethod <SelctnMtd>***Presence:* [0..1]*Definition:* Method used by the cardholder and the terminal for the choice of the account.*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.

CodeName	Name	Definition
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 16.4.3.3.9.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 16.4.3.3.9.3 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 16.4.3.3.9.4 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 16.4.3.3.9.5 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	454
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		455
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		455
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			455
	<b>Identification</b> <Id>	[1..1]	Text		455

##### 16.4.3.3.9.5.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

**Constraints**

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**16.4.3.3.9.5.2 BBAN <BBAN>**

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**16.4.3.3.9.5.3 UPIC <UPIC>**

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

**16.4.3.3.9.5.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		455

**16.4.3.3.9.5.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3.9.6 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3.9.7 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	456
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		456

#### 16.4.3.3.9.7.1 AnyBIC <AnyBIC>

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 16.4.3.3.9.7.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "GenericIdentification1" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 16.4.3.3.10 ProtectedAccountData <PrctdAcctData>

*Presence:* [0..1]

*Definition:* Encryption of account information.



**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 16.4.3.3.11 TotalPresentedAmount <TtlPresntdAmt>

*Presence:* [1..1]

*Definition:* Total amount presented to the customer.

**TotalPresentedAmount <TtlPresntdAmt>** contains the following elements (see "AmountAndCurrency1" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

#### 16.4.3.3.12 TotalAuthorisedAmount <TtlAuthrsdAmt>

*Presence:* [0..1]

*Definition:* Total authorised amount.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 16.4.3.3.13 TotalRequestedAmount <TtlReqdAmt>

*Presence:* [0..1]

*Definition:* Total requested amount.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 16.4.3.3.14 DetailedRequestedAmount <DtldReqdAmt>

*Presence:* [0..1]

*Definition:* Detail of the requested amounts for the withdrawal transaction.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following elements (see "DetailedAmount12" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountToDispense <AmtToDspns>	[1..1]	Amount		1167
	Currency <Ccy>	[0..1]	CodeSet	C1	1167
	Fees <Fees>	[0..*]	±		1167
	Donation <Dontn>	[0..*]	±		1167

### 16.4.3.3.15 CurrencyConversionResult <CcyConvRsIt>

Presence: [0..1]

**Definition:** Currency conversion accepted by the customer, either to convert the amount to dispense in the base currency of the ATM, or to convert the total requested amount in the currency of the customer (so called dynamic currency conversion).

**CurrencyConversionResult <CcyConvRsIt>** contains the following **CurrencyConversion9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrencyConversionIdentification</b> <CcyConvslId>	[0..1]	Text		459
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			459
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	459
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		459
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		459
	<b>Name</b> <Nm>	[0..1]	Text		459
	<b>ResultingAmount</b> <RsltgAmt>	[1..1]	Amount		460
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		460
	<b>InvertedExchangeRate</b> <NvrtXchgRate>	[0..1]	Rate		460
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		460
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		460
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			460
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	460
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		461
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		461
	<b>Name</b> <Nm>	[0..1]	Text		461
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		461
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			461
	<b>Amount</b> <Amt>	[1..1]	Amount		461
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			462
	<b>Rate</b> <Rate>	[1..1]	Rate		462
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			462
	<b>Format</b> <Frmt>	[0..1]	CodeSet		462
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		463

**16.4.3.3.15.1 CurrencyConversionIdentification <CcyConvslId>**

*Presence:* [0..1]

*Definition:* Identification of the currency conversion operation.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3.15.2 TargetCurrency <TrgtCcy>**

*Presence:* [1..1]

*Definition:* Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

**TargetCurrency <TrgtCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	459
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		459
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		459
	<b>Name</b> <Nm>	[0..1]	Text		459

**16.4.3.3.15.2.1 AlphaCode <AlphaCd>**

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**16.4.3.3.15.2.2 NumericCode <NmrcCd>**

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

**16.4.3.3.15.2.3 Decimal <Dcml>**

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

**16.4.3.3.15.2.4 Name <Nm>**

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.3.15.3 ResultingAmount <RsltAmt>

*Presence:* [1..1]

*Definition:* Amount converted in the target currency, including commission and mark-up.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 16.4.3.3.15.4 ExchangeRate <XchgRate>

*Presence:* [1..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the original amount into the resulting amount.

*Datatype:* "PercentageRate" on page 1315

#### 16.4.3.3.15.5 InvertedExchangeRate <NvrtDXchgRate>

*Presence:* [0..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the resulting amount into the original amount.

*Datatype:* "PercentageRate" on page 1315

#### 16.4.3.3.15.6 QuotationDate <QtnDt>

*Presence:* [0..1]

*Definition:* Date and time at which the exchange rate has been quoted.

*Datatype:* "ISODateTime" on page 1312

#### 16.4.3.3.15.7 ValidUntil <VldUntil>

*Presence:* [0..1]

*Definition:* Validity limit of the exchange rate.

*Datatype:* "ISODateTime" on page 1312

#### 16.4.3.3.15.8 SourceCurrency <SrcCcy>

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 alphanumeric characters).

**SourceCurrency <SrcCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	460
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		461
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		461
	<b>Name</b> <Nm>	[0..1]	Text		461

##### 16.4.3.3.15.8.1 AlphaCode <AlphaCd>

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 16.4.3.3.15.8.2 NumericCode <NmrcCd>

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

#### 16.4.3.3.15.8.3 Decimal <Dcml>

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.15.8.4 Name <Nm>

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.3.15.9 OriginalAmount <OrgnlAmt>

*Presence:* [1..1]

*Definition:* Original amount in the source currency.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 16.4.3.3.15.10 CommissionDetails <ComssnDtls>

*Presence:* [0..\*]

*Definition:* Commission or additional charges made as part of a currency conversion.

**CommissionDetails <ComssnDtls>** contains the following **Commission19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		461
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462

#### 16.4.3.3.15.10.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Commission expressed as an amount of money.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 16.4.3.3.15.10.2 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information about the type of commission.

*Datatype:* "Max350Text" on page 1317

#### 16.4.3.3.15.11 MarkupDetails <MrkUpDtls>

*Presence:* [0..\*]

*Definition:* Mark-up made as part of a currency conversion.

**MarkupDetails <MrkUpDtls>** contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Rate</b> <Rate>	[1..1]	Rate		462
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		462

##### 16.4.3.3.15.11.1 Rate <Rate>

*Presence:* [1..1]

*Definition:* Commission expressed as a percentage.

*Datatype:* "PercentageRate" on page 1315

##### 16.4.3.3.15.11.2 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information about the type of markup.

*Datatype:* "Max350Text" on page 1317

#### 16.4.3.3.15.12 DeclarationDetails <DclrtnDtls>

*Presence:* [0..1]

*Definition:* Card scheme declaration (disclaimer) to present to the cardholder.

**DeclarationDetails <DclrtnDtls>** contains the following **ActionMessage5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		462
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		463

##### 16.4.3.3.15.12.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Format of the content.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 16.4.3.3.15.12.2 MessageContent <MsgCntt>

*Presence:* [1..1]

*Definition:* Text or graphic data to be display or printed to the cardholder or the cashier.

*Datatype:* "Max20000Text" on page 1316

#### 16.4.3.3.16 AdditionalCharge <AddtlChrg>

*Presence:* [0..\*]

*Definition:* Additional charge (for instance tax or fee).

**AdditionalCharge <AddtlChrg>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Lbl>	[0..1]	Text		1168

#### 16.4.3.3.17 RequestedReceipt <ReqdRct>

*Presence:* [0..1]

*Definition:* True if the customer has requested a receipt.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 16.4.3.3.18 ReceiptPrinted <RctPrtd>

*Presence:* [0..1]

*Definition:* True if a receipt has been printed and presented to the customer.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 16.4.3.3.19 CustomerConsent <CstmrCnsnt>

*Presence:* [0..1]

*Definition:* Explicit consent expressed by a customer on a card-related service proposed by an acquirer or an issuer or any agent acting on behalf of one of them.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 16.4.3.3.20 Limits <Lmts>

*Presence:* [0..1]

*Definition:* Limit of amounts for the customer.

**Limits <Lmts>** contains the following **ATMTransactionAmounts6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	464
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		464
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		465
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			465
	<b>Type</b> <Tp>	[1..1]	Text		465
	<b>Amount</b> <Amt>	[1..1]	Amount		465
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	465
	<b>Label</b> <Labl>	[0..1]	Text		465

##### 16.4.3.3.20.1 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Default currency of the limits.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* ["ActiveCurrencyCode"](#) on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

##### 16.4.3.3.20.2 MaximumPossibleAmount <MaxPssblAmt>

*Presence:* [0..1]

*Definition:* Maximum amount allowed for a transaction in the service.

*Datatype:* ["ImpliedCurrencyAndAmount"](#) on page 1269



**16.4.3.3.20.3 MinimumPossibleAmount <MinPssblAmt>***Presence:* [0..1]*Definition:* Minimum amount allowed for a transaction in the service.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**16.4.3.3.20.4 AdditionalAmount <AddtlAmt>***Presence:* [0..\*]*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.**AdditionalAmount <AddtlAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	Text		465
	<b>Amount</b> <Amt>	[1..1]	Amount		465
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	465
	<b>Label</b> <Labl>	[0..1]	Text		465

**16.4.3.3.20.4.1 Type <Tp>***Presence:* [1..1]*Definition:* Type of amount.*Datatype:* "Max35Text" on page 1317**16.4.3.3.20.4.2 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**16.4.3.3.20.4.3 Currency <Ccy>***Presence:* [0..1]*Definition:* Currency of the amount.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**16.4.3.3.20.4.4 Label <Labl>***Presence:* [0..1]

*Definition:* Description of the amount that may be provided to the customer.

*Datatype:* "Max70Text" on page 1318

#### 16.4.3.3.21 AuthorisationResult <AuthstnRslt>

*Presence:* [0..1]

*Definition:* Outcome of the withdrawal authorisation.

**AuthorisationResult <AuthstnRslt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		466
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			467
	<b>Response</b> <Rspn>	[1..1]	CodeSet		467
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		467
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		471
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			471
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		471
	<b>Codification</b> <Cdfctn>	[0..1]	Text		472
	<b>Response</b> <Rspn>	[1..1]	Text		472
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		472
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		472
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		472
	<b>Action</b> <Actn>	[0..*]			472
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		473
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			473
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		474

##### 16.4.3.3.21.1 AuthorisationEntity <AuthstnNtty>

*Presence:* [0..1]

*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).

*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 16.4.3.3.21.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		467
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		467
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		471

##### 16.4.3.3.21.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 16.4.3.3.21.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.

CodeName	Name	Definition
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.

CodeName	Name	Definition
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.

CodeName	Name	Definition
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.

CodeName	Name	Definition
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 16.4.3.3.21.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 16.4.3.3.21.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		471
	<b>Codification</b> <Cdfctn>	[0..1]	Text		472
	<b>Response</b> <Rspn>	[1..1]	Text		472
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		472
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		472

#### 16.4.3.3.21.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3.21.3.2 Codification <Cdfctn>***Presence:* [0..1]*Definition:* Codification of the response (for instance ISO 8583, IFX).*Datatype:* "Max35Text" on page 1317**16.4.3.3.21.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**16.4.3.3.21.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**16.4.3.3.21.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**16.4.3.3.21.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**16.4.3.3.21.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		473
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			473
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		474



**16.4.3.3.21.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

**16.4.3.3.21.5.2 MessageToPresent <MsgToPres>***Presence:* [0..1]*Definition:* Information to display, print or log.**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		473
	<b>Message</b> <Msg>	[0..1]	Text		474
	<b>Reference</b> <Ref>	[0..1]	Text		474
	<b>Device</b> <Dvc>	[0..1]	CodeSet		474
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		474

**16.4.3.3.21.5.2.1 Format <Frmt>***Presence:* [0..1]*Definition:* Information format.*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 16.4.3.3.21.5.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

#### 16.4.3.3.21.5.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.3.21.5.2.4 Device <Dvc>

*Presence:* [0..1]

*Definition:* Device to be used.

*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 16.4.3.3.21.5.2.5 MessageContentSignature <MsgCnttSgntr>

*Presence:* [0..1]

*Definition:* Electronic signature of the message to display or print.

*Datatype:* "Max35Binary" on page 1270

#### 16.4.3.3.21.5.3 RequestToPerform <ReqToPrfrm>

*Presence:* [0..1]

**Definition:** Message to send before the completion of the transaction.

**Datatype:** "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.

CodeName	Name	Definition
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 16.4.3.3.22 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 16.4.3.3.23 ATMTotals <ATMTtls>

*Presence:* [0..\*]

*Definition:* Current totals of the ATM.

**ATMTotals <ATMTtls>** contains the following elements (see "ATMTotals1" on page 1182 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MediaType <MdiaTp>	[0..1]	CodeSet		1182
	Currency <Ccy>	[0..1]	CodeSet	C1	1183
	ATMBalance <ATMBal>	[0..1]	Amount		1183
	ATMCurrent <ATMCur>	[0..1]	Amount		1183
	ATMBalanceNumber <ATMBalNb>	[0..1]	Quantity		1183
	ATMCurrentNumber <ATMCurNb>	[0..1]	Quantity		1183

#### 16.4.3.3.24 Cassette <Csstt>

*Presence:* [0..\*]

*Definition:* Information on the cassettes of the ATM.

**Cassette <Csst>** contains the following **ATMCassette2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		477
	<b>LogicalIdentification</b> <LogcId>	[1..1]	Text		477
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		478
	<b>Type</b> <Tp>	[1..1]	CodeSet		478
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		478
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		478
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			479
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		479
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	479
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		480
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		480
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		480
	<b>FlowTotals</b> <FlowTtls>	[0..*]			480
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482

#### 16.4.3.3.24.1 PhysicalIdentification <PhysId>

*Presence:* [0..1]

*Definition:* Physical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 16.4.3.3.24.2 LogicalIdentification <LogcId>

*Presence:* [1..1]

*Definition:* Logical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

**16.4.3.3.24.3 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number or unique identification of the cassette hardware.*Datatype:* "Max35Text" on page 1317**16.4.3.3.24.4 Type <Tp>***Presence:* [1..1]*Definition:* Type of cassette.*Datatype:* "ATMCassetteType1Code" on page 1276

CodeName	Name	Definition
DPST	In	Cassette for deposits.
DISP	Out	Cassette for dispense.
RCYC	Recycling	Cassette for recycling.
RJCT	Reject	Cassette for reject.
RPLT	Replenishment	Cassette for replenishment.
RTRC	Retract	Cassette for retract.

**16.4.3.3.24.5 SubType <SubTp>***Presence:* [0..\*]*Definition:* Type of items the cash-in takes*Datatype:* "ATMNoteType1Code" on page 1282

CodeName	Name	Definition
ALLT	All	All fit bank note types.
CNTR	Counterfeit	Detected counterfeit notes.
IDVD	Individual	All types of fit bank notes specified in an individual list.
SCNT	SuspectedCounterfeit	Suspected counterfeit notes.
UNFT	Unfit	Unfit bank notes (unacceptable quality).

**16.4.3.3.24.6 MediaType <MdiaTp>***Presence:* [0..1]*Definition:* Type of media inside the cassette.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.

CodeName	Name	Definition
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

#### 16.4.3.3.24.7 MediaCounters <MdiaCntrs>

*Presence:* [0..\*]

*Definition:* Counter per unit value or globally.

**MediaCounters <MdiaCntrs>** contains the following **ATMCassetteCounters3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		479
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	479
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		480
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		480
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		480
	<b>FlowTotals</b> <FlowTtls>	[0..*]			480
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482

##### 16.4.3.3.24.7.1 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount of one media unit, if the media type is valued.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 16.4.3.3.24.7.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the media, if the media type is valued and different from the currency of the requested amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **16.4.3.3.24.7.3 MediaCategory <MdiaCtgy>**

*Presence:* [0..1]

*Definition:* Category of media items.

*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### **16.4.3.3.24.7.4 CurrentNumber <CurNb>**

*Presence:* [1..1]

*Definition:* Current number of media present in the cassette.

*Datatype:* "Number" on page 1314

#### **16.4.3.3.24.7.5 CurrentAmount <CurAmt>**

*Presence:* [0..1]

*Definition:* Current amount in the cassette.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### **16.4.3.3.24.7.6 FlowTotals <FlowTtls>**

*Presence:* [0..\*]

*Definition:* Counters of media inside the cassette.



**FlowTotals <FlowTtls>** contains the following **ATMCassetteCounters4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		481
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		481
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		481
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		481
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		482
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		482
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		482
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		482
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		482

#### 16.4.3.3.24.7.6.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of counters.

*Datatype:* "ATMCounterType1Code" on page 1279

CodeName	Name	Definition
INQU	CountersInquiry	Counters since the last counters inquiry.
CTXN	CustomerTransaction	Counters for a customer transaction.
CTOF	CutOff	Counters since the last cut-off.
BDAY	BusinessDay	Counters since the beginning of the business day.
PRTN	Operation	Counters for an operation performed by an operator on the ATM.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

#### 16.4.3.3.24.7.6.2 AddedNumber <AddedNb>

*Presence:* [0..1]

*Definition:* Number of added media during servicing operations.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.3 RemovedNumber <RmvdNb>

*Presence:* [0..1]

*Definition:* Number of removed media during servicing operations.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.4 DispensedNumber <DspnsdNb>

*Presence:* [0..1]

*Definition:* Total number of media out of the cassette.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.5 DepositedNumber <DpstdNb>

*Presence:* [0..1]

*Definition:* Total number of media deposited in the cassette.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.6 RecycledNumber <RcycldNb>

*Presence:* [0..1]

*Definition:* Total number of recycled media from the cassette.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.7 RetractedNumber <RtrctdNb>

*Presence:* [0..1]

*Definition:* Total number of retracted media originating from the cassette.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.8 RejectedNumber <RjctdNb>

*Presence:* [0..1]

*Definition:* Total number of media from this cassette which are on the reject bin.

*Datatype:* "Number" on page 1314

#### 16.4.3.3.24.7.6.9 PresentedNumber <PresntdNb>

*Presence:* [0..1]

*Definition:* Total number of media presented to the customer.

*Datatype:* "Number" on page 1314

### 16.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		482
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		483

#### 16.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 16.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **17      catp.004.001.02**

## **ATMWithdrawalCompletionAcknowledgementV02**

### **17.1    MessageDefinition Functionality**

The ATMWithdrawalCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMWithdrawalCompletionAdvice message.

#### Outline

The ATMWithdrawalCompletionAcknowledgementV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header
  - Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMWithdrawalCompletionAcknowledgement
  - Encrypted body of the message.
- C. ATMWithdrawalCompletionAcknowledgement
  - Information related to the acknowledgement of an ATM withdrawal transaction from the ATM manager.
- D. SecurityTrailer
  - Trailer of the message containing a MAC.

## 17.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMWdrwlCmpltnAck>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			486
	<b>MessageFunction</b> <MsgFctn>	[1..1]			487
	<b>Function</b> <Fctn>	[1..1]	CodeSet		487
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		489
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		489
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		489
	<b>Exchangeldentification</b> <Xchgld>	[1..1]	Text		489
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		489
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		490
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		490
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		490
	<b>ProcessState</b> <PrctStat>	[0..1]	Text		490
	<b>Traceability</b> <Tracblt>	[0..*]			490
	<b>RelayIdentification</b> <Rlayld>	[1..1]	±		490
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		491
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		491
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		491
	<b>ProtectedATMWithdrawalCompletionAcknowledgement</b> <PrctdATMWdrwlCmpltnAck>	[0..1]	±		491
	<b>ATMWithdrawalCompletionAcknowledgement</b> <ATMWdrwlCmpltnAck>	[0..1]			491
	<b>ATM</b> <ATM>	[1..1]	±		492
	<b>Context</b> <Cntxt>	[1..1]			493
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		494
	<b>Service</b> <Svc>	[0..1]			494
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		494
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		494
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		495
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		495
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		495

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Transaction</b> <Tx>	[1..1]			495
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		496
	<b>Response</b> <Rspn>	[1..1]	CodeSet		496
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		496
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		500
	<b>Command</b> <Cmd>	[0..*]			500
	<b>Type</b> <Tp>	[1..1]	CodeSet		500
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		501
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		501
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		501
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		502
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			502
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		502
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		503

## 17.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 17.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 17.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			487
	<b>Function</b> <Fctn>	[1..1]	CodeSet		487
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		489
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		489
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		489
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		489
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		489
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		490
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		490
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		490
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		490
	<b>Traceability</b> <Tracblt>	[0..*]			490
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		490
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		491
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		491
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		491

#### 17.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		487
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		489
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		489

##### 17.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.



CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 17.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 17.4.1.1.3 HostSERVICECODE <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 17.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 17.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 17.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**17.4.1.5 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**17.4.1.6 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**17.4.1.7 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**17.4.1.8 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**17.4.1.9 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		490
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		491
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		491
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		491

**17.4.1.9.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 17.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 17.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 17.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 17.4.2 ProtectedATMWithdrawalCompletionAcknowledgement <PrtctdATMWdrwlCmpltnAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMWithdrawalCompletionAcknowledgement <PrtctdATMWdrwlCmpltnAck>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 17.4.3 ATMWithdrawalCompletionAcknowledgement <ATMWdrwlCmpltnAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement of an ATM withdrawal transaction from the ATM manager.

**ATMWithdrawalCompletionAcknowledgement** <ATMWdrwlCmpltnAck> contains the following **ATMWithdrawalCompletionAcknowledgement2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATM</b> <ATM>	[1..1]	±		492
	<b>Context</b> <Cntxt>	[1..1]			493
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		494
	<b>Service</b> <Svc>	[0..1]			494
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		494
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		494
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		495
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		495
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		495
	<b>Transaction</b> <Tx>	[1..1]			495
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		496
	<b>Response</b> <Rspn>	[1..1]	CodeSet		496
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		496
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		500
	<b>Command</b> <Cmd>	[0..*]			500
	<b>Type</b> <Tp>	[1..1]	CodeSet		500
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		501
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		501
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		501
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		502

#### 17.4.3.1 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1227

#### 17.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		494
	<b>Service</b> <Svc>	[0..1]			494
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		494
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		494
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		495
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		495
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		495

#### 17.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 17.4.3.2.2 Service <Svc>

*Presence:* [0..1]

*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		494
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		494
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		495
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		495
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		495

##### 17.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 17.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

**17.4.3.2.2.3 HostServiceCode <HstSvcCd>***Presence:* [0..1]*Definition:* Codification of the type of service for the host.*Datatype:* "Max35Text" on page 1317**17.4.3.2.2.4 ServiceType <SvcTp>***Presence:* [1..1]*Definition:* Describes the type of withdrawal selected by the customer.*Datatype:* "ATMServiceType1Code" on page 1285

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.

**17.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>***Presence:* [0..\*]*Definition:* Identification of the variant of the service.*Datatype:* "Max35Text" on page 1317**17.4.3.3 Transaction <Tx>***Presence:* [1..1]*Definition:* Acknowledgement of the withdrawal completion advice.

**Transaction <Tx>** contains the following **ATMTransaction18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		496
	<b>Response</b> <Rspn>	[1..1]	CodeSet		496
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		496
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		500
	<b>Command</b> <Cmd>	[0..*]			500
	<b>Type</b> <Tp>	[1..1]	CodeSet		500
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		501
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		501
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		501
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		502

#### 17.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 17.4.3.3.2 Response <Rspn>

*Presence:* [1..1]

*Definition:* Response to the advice.

*Datatype:* ["Response4Code"](#) on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

#### 17.4.3.3.3 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* ["ResultDetail4Code"](#) on page 1306



CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.

CodeName	Name	Definition
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.

CodeName	Name	Definition
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SECO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnline	Transaction cannot be processed online by the terminal.

CodeName	Name	Definition
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 17.4.3.3.4 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 17.4.3.3.5 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		500
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		501
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		501
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		501
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		502

##### 17.4.3.3.5.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 17.4.3.3.5.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 17.4.3.3.5.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 17.4.3.3.5.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 17.4.3.3.5.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 17.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		502
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		503

### 17.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 17.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **18      catp.005.001.02 ATMRejectV02**

### **18.1    MessageDefinition Functionality**

The ATMReject message is sent by any entity to reject a received message.

#### Outline

The ATMRejectV02 MessageDefinition is composed of 2 MessageBuildingBlocks:

A. Header

Information related to the protocol management on a segment of the path from the ATM to the acquirer.

B. ATMReject

Information related to the reject of a message from an ATM or an ATM manager.



## 18.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root &lt;Document&gt; &lt;ATMRjct&gt;</i>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			506
	<b>MessageFunction</b> <MsgFctn>	[1..1]			506
	<b>Function</b> <Fctn>	[1..1]	CodeSet		507
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		508
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		508
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		508
	<b>Exchangeldentification</b> <Xchgld>	[0..1]	Text		508
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		508
	<b>InitiatingParty</b> <InitgPty>	[0..1]	Text		509
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		509
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		509
	<b>Traceability</b> <Tracblt>	[0..*]			509
	<b>Relayldentification</b> <Rlayld>	[1..1]	±		509
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		510
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		510
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		510
	<b>ATMReject</b> <ATMRjct>	[1..1]			510
	<b>RejectInitiatorldentification</b> <Rjctlnitrlld>	[0..1]	Text		511
	<b>RejectReason</b> <RjctRsn>	[1..1]	CodeSet		511
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		512
	<b>Command</b> <Cmd>	[0..*]			512
	<b>Type</b> <Tp>	[1..1]	CodeSet		512
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		513
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		513
	<b>Commandldentification</b> <Cmdld>	[0..1]	±		513
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		513
	<b>MessageInError</b> <MsgInErr>	[0..1]	Binary		514

## 18.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 18.3.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header33** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			506
	<b>Function</b> <Fctn>	[1..1]	CodeSet		507
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		508
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		508
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		508
	<b>ExchangeIdentification</b> <XchgId>	[0..1]	Text		508
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		508
	<b>InitiatingParty</b> <InitgPty>	[0..1]	Text		509
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		509
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		509
	<b>Traceability</b> <Tracblt>	[0..*]			509
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		509
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		510
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		510
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		510

#### 18.3.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		507
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		508
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		508

**18.3.1.1.1 Function <Fctn>***Presence:* [1..1]*Definition:* Type of requested function.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.

CodeName	Name	Definition
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 18.3.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 18.3.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 18.3.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 18.3.1.3 ExchangeIdentification <XchgId>

*Presence:* [0..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 18.3.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

### 18.3.1.5 InitiatingParty <InitgPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

### 18.3.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

### 18.3.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 18.3.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		509
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		510
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		510
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		510

#### 18.3.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 18.3.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 18.3.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODatetime" on page 1312

#### 18.3.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODatetime" on page 1312

### 18.3.2 ATMReject <ATMRjct>

*Presence:* [1..1]

*Definition:* Information related to the reject of a message from an ATM or an ATM manager.

**ATMReject <ATMRjct>** contains the following **ATMReject2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RejectInitiatorIdentification</b> <RjctIntrld>	[0..1]	Text		511
	<b>RejectReason</b> <RjctRsn>	[1..1]	CodeSet		511
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		512
	<b>Command</b> <Cmd>	[0..*]			512
	<b>Type</b> <Tp>	[1..1]	CodeSet		512
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		513
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		513
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		513
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		513
	<b>MessageInError</b> <MsgInErr>	[0..1]	Binary		514

### 18.3.2.1 RejectInitiatorIdentification <RjctIntrld>

*Presence:* [0..1]

*Definition:* Identification of the entity sending the reject message.

*Datatype:* "Max35Text" on page 1317

### 18.3.2.2 RejectReason <RjctRsn>

*Presence:* [1..1]

*Definition:* High level information allowing the sender of a request or an advice to know the types of error, and handle them accordingly.

*Datatype:* "RejectReason1Code" on page 1305

CodeName	Name	Definition
UNPR	UnableToProcess	Not possible to process the message, for instance the security module is unavailable, the hardware is unavailable, or there is a problem of resource.
IMSG	InvalidMessage	Invalid envelope of the message.
PARS	ParsingError	Invalid message: At least one of the data element or data structure is not present , the format, or the content of one data element or one data structure is not correct.
SECU	Security	Security error (for example an invalid key or an incorrect MAC value).
INTP	InitiatingParty	Invalid identification data for the sender.
RCPD	RecipientParty	Invalid identification data for the the receiver.

CodeName	Name	Definition
DPMG	DuplicateMessage	Duplicate message, the identification of the exchange is the same than a previous message.
VERS	ProtocolVersion	Version of the protocol couldn't be supported by the recipient.
MSGT	MessageType	Type of message the recipient receives is unknow or unsupported.

### 18.3.2.3 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information related to the sending of a reject message in response to a request or an advice.

For logging purpose, in order to allow further analysis, statistics and deferred processing on the success or the failure of the request processing.

*Datatype:* "Max500Text" on page 1318

### 18.3.2.4 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		512
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		513
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		513
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		513
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		513

#### 18.3.2.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.



CodeName	Name	Definition
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 18.3.2.4.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 18.3.2.4.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 18.3.2.4.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 18.3.2.4.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

#### 18.3.2.5 MessageInError <MsgInErr>

*Presence:* [0..1]

*Definition:* Received message that has been rejected.

*Datatype:* "Max100KBinary" on page 1270

# 19      **catp.006.001.02**

## **ATMInquiryRequestV02**

### **19.1    MessageDefinition Functionality**

The ATMInquiryRequest message is sent by an ATM to an ATM manager to request information about a customer (for example card, account).

#### Outline

The ATMInquiryRequestV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMInquiryRequest  
Encrypted body of the message.
- C. ATMInquiryRequest  
Information related to the request of an inquiry from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 19.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <ATMNqryReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			521
	<b>MessageFunction</b> <MsgFctn>	[1..1]			521
	<b>Function</b> <Fctn>	[1..1]	CodeSet		522
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		523
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		523
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		523
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		524
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		524
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		524
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		524
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		524
	<b>Traceability</b> <Tracblt>	[0..*]			524
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		524
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		525
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		525
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		525
	<b>ProtectedATMinquiryRequest</b> <PrtctdATMNqryReq>	[0..1]	±		525
	<b>ATMinquiryRequest</b> <ATMNqryReq>	[0..1]			525
	<b>Environment</b> <Envt>	[1..1]			529
	<b>Acquirer</b> <Acqrr>	[0..1]	±		532
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		533
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		533
	<b>ATM</b> <ATM>	[1..1]			533
	<b>Identification</b> <Id>	[1..1]	Text		535
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		535
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		535
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	535
	<b>Location</b> <Lctn>	[0..1]			536
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		536

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StreetName</b> <StrtNm>	[0..1]	Text		537
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		537
	<b>PostCode</b> <PstCd>	[0..1]	Text		537
	<b>TownName</b> <TwnNm>	[1..1]	Text		537
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		537
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	537
	<b>GeoLocation</b> <GLctn>	[0..1]			537
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		539
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		539
	<b>Capabilities</b> <Cpblties>	[0..1]			539
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		540
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		540
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		541
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		541
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		541
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		541
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		542
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		542
	<b>DepositedMedia</b> <DpstlMdia>	[0..*]	CodeSet		542
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			542
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	544

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Equipment</b> <Eqpmnt>	[0..1]			544
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		544
	<b>Model</b> <Mdl>	[0..1]	Text		544
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		544
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		545
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		545
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		545
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		545
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			545
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546
	<b>AvailableDevice</b> <AvlblDvc>	[0..*]	CodeSet		546
	<b>Customer</b> <Cstmr>	[0..1]			547
	<b>Profile</b> <Prfl>	[0..1]			548
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		548
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		549
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		549
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	549
	<b>Authentication</b> <Authntcn>	[1..*]			549
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		550
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		550
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		550
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		550
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		551
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			551
	<b>Method</b> <Mtd>	[1..1]	CodeSet		551
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		552
	<b>Result</b> <Rslt>	[0..1]	CodeSet		552
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		553
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		553
	<b>Card</b> <Card>	[0..1]			553

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		553
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		554
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		554
	<b>PlainCardData</b> <PlainCardData>	[0..1]			554
	<b>PAN</b> <PAN>	[0..1]	Text		555
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		555
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		555
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		555
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		555
	<b>Track1</b> <Trck1>	[0..1]	Text		556
	<b>Track2</b> <Trck2>	[0..1]	Text		556
	<b>Track3</b> <Trck3>	[0..1]	Text		556
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		556
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		556
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		556
	<b>Context</b> <Cntxt>	[1..1]			556
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		557
	<b>Service</b> <Svc>	[1..1]			557
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		557
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		557
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		557
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		558
	<b>Transaction</b> <Tx>	[1..1]			558
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		559
	<b>AccountData</b> <AcctData>	[0..1]			560
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		560
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		561
	<b>AccountName</b> <AcctNm>	[0..1]	Text		561
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			562
	<b>Name</b> <Nm>	[1..1]	Text		562
	<b>Address</b> <Adr>	[1..1]	±		562

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	562
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			563
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	563
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		563
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		563
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			564
	<b>Identification</b> <Id>	[1..1]	Text		564
	<b>Servicer</b> <Svcr>	[0..1]			564
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	564
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		565
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		565
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		565
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		565
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		566
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			566
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		566
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		567

## 19.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.



**C5 ValidationByTable**

Must be a valid terrestrial language.

## 19.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 19.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			521
	<b>Function</b> <Fctn>	[1..1]	CodeSet		522
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		523
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		523
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		523
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		524
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		524
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		524
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		524
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		524
	<b>Traceability</b> <Tracblt>	[0..*]			524
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		524
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		525
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		525
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		525

#### 19.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		522
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		523
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		523

#### 19.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.

CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 19.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 19.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 19.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**19.4.1.3 ExchangeIdentification <XchgId>***Presence:* [1..1]*Definition:* Unique identification of an exchange occurrence.*Datatype:* "Max3NumericText" on page 1317**19.4.1.4 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**19.4.1.5 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**19.4.1.6 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**19.4.1.7 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**19.4.1.8 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		524
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		525
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		525
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		525

**19.4.1.8.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 19.4.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 19.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 19.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 19.4.2 ProtectedATMInquiryRequest <PrtctdATMNqryReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMInquiryRequest <PrtctdATMNqryReq>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 19.4.3 ATMInquiryRequest <ATMNqryReq>

*Presence:* [0..1]

*Definition:* Information related to the request of an inquiry from an ATM.

**ATMInquiryRequest** <ATMNqryReq> contains the following **ATMInquiryRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			529
	<b>Acquirer</b> <Acqrr>	[0..1]	±		532
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		533
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		533
	<b>ATM</b> <ATM>	[1..1]			533
	<b>Identification</b> <Id>	[1..1]	Text		535
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		535
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		535
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	535
	<b>Location</b> <Lctn>	[0..1]			536
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		536
	<b>StreetName</b> <StrtNm>	[0..1]	Text		537
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		537
	<b>PostCode</b> <PstCd>	[0..1]	Text		537
	<b>TownName</b> <TwnNm>	[1..1]	Text		537
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		537
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	537
	<b>GeoLocation</b> <GLctn>	[0..1]			537
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		539
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		539
	<b>Capabilities</b> <Cpblties>	[0..1]			539
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		540
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		540
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		541
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		541

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ApprovalCodeLength</b> <ApprvlCdLngth>	[0..1]	Quantity		541
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		541
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		542
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		542
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		542
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			542
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	544
	<b>Equipment</b> <Eqpmnt>	[0..1]			544
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		544
	<b>Model</b> <Mdl>	[0..1]	Text		544
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		544
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		545
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		545
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		545
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		545
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			545
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546
	<b>AvailableDevice</b> <AvlblDvc>	[0..*]	CodeSet		546
	<b>Customer</b> <Cstmr>	[0..1]			547
	<b>Profile</b> <Prfl>	[0..1]			548
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		548
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		549
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		549
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	549
	<b>Authentication</b> <Authntcn>	[1..*]			549
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		550

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		550
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		550
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		550
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		551
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			551
	<b>Method</b> <Mtd>	[1..1]	CodeSet		551
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		552
	<b>Result</b> <Rslt>	[0..1]	CodeSet		552
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		553
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		553
	<b>Card</b> <Card>	[0..1]			553
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		553
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		554
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		554
	<b>PlainCardData</b> <PlainCardData>	[0..1]			554
	<b>PAN</b> <PAN>	[0..1]	Text		555
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		555
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		555
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		555
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		555
	<b>Track1</b> <Trck1>	[0..1]	Text		556
	<b>Track2</b> <Trck2>	[0..1]	Text		556
	<b>Track3</b> <Trck3>	[0..1]	Text		556
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		556
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		556
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		556
	<b>Context</b> <Cntxt>	[1..1]			556
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		557
	<b>Service</b> <Svc>	[1..1]			557
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		557
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		557



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		557
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		558
	<b>Transaction</b> <Tx>	[1..1]			558
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		559
	<b>AccountData</b> <AcctData>	[0..1]			560
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		560
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		561
	<b>AccountName</b> <AcctNm>	[0..1]	Text		561
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			562
	<b>Name</b> <Nm>	[1..1]	Text		562
	<b>Address</b> <Adr>	[1..1]	±		562
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	562
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			563
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	563
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		563
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		563
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			564
	<b>Identification</b> <Id>	[1..1]	Text		564
	<b>Servicer</b> <Svcr>	[0..1]			564
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	564
Or}	<b>ProprietaryIdentification</b> <Prtryld>	[1..1]	±		565
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		565
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		565
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		565
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		566

#### 19.4.3.1 Environment <Env>

*Presence:* [1..1]

*Definition:* Environment in which the inquiry is performed.

**Environment <Envt>** contains the following **ATMEnvironment14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		532
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		533
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		533
	<b>ATM</b> <ATM>	[1..1]			533
	<b>Identification</b> <Id>	[1..1]	Text		535
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		535
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		535
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	535
	<b>Location</b> <Lctn>	[0..1]			536
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		536
	<b>StreetName</b> <StrtNm>	[0..1]	Text		537
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		537
	<b>PostCode</b> <PstCd>	[0..1]	Text		537
	<b>TownName</b> <TwnNm>	[1..1]	Text		537
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		537
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	537
	<b>GeoLocation</b> <GLctn>	[0..1]			537
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		539
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		539
	<b>Capabilities</b> <Cpblties>	[0..1]			539
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		540
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		540
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		541
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		541
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		541

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		541
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		542
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		542
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		542
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			542
	<b>Destination</b> <Dstr>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlbfFmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	544
	<b>Equipment</b> <Eqpmnt>	[0..1]			544
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		544
	<b>Model</b> <Mdl>	[0..1]	Text		544
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		544
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		545
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		545
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		545
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		545
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			545
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546
	<b>AvailableDevice</b> <AvlbfDvc>	[0..*]	CodeSet		546
	<b>Customer</b> <Cstmr>	[0..1]			547
	<b>Profile</b> <Prfl>	[0..1]			548
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		548
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		549
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		549
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	549
	<b>Authentication</b> <Authntcn>	[1..*]			549
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		550
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		550

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		550
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		550
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		551
	<b>AuthenticationResult</b> <AuthntcnRsIt>	[0..*]			551
	<b>Method</b> <Mtd>	[1..1]	CodeSet		551
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		552
	<b>Result</b> <RsIt>	[0..1]	CodeSet		552
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		553
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		553
	<b>Card</b> <Card>	[0..1]			553
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		553
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		554
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		554
	<b>PlainCardData</b> <PlainCardData>	[0..1]			554
	<b>PAN</b> <PAN>	[0..1]	Text		555
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		555
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		555
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		555
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		555
	<b>Track1</b> <Trck1>	[0..1]	Text		556
	<b>Track2</b> <Trck2>	[0..1]	Text		556
	<b>Track3</b> <Trck3>	[0..1]	Text		556
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		556
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		556
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		556

#### 19.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see ["Acquirer7"](#) on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrgInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 19.4.3.1.2 ATMMManagerIdentification <ATMMgrId>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* ["Max35Text"](#) on page 1317

#### 19.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see ["TerminalHosting1"](#) on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 19.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		535
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		535
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		535
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	535
	<b>Location</b> <Lctn>	[0..1]			536
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		536
	<b>StreetName</b> <StrtNm>	[0..1]	Text		537
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		537
	<b>PostCode</b> <PstCd>	[0..1]	Text		537
	<b>TownName</b> <TwnNm>	[1..1]	Text		537
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		537
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	537
	<b>GeoLocation</b> <GLctn>	[0..1]			537
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		539
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		539
	<b>Capabilities</b> <Cpbilities>	[0..1]			539
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		540
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		540
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		541
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		541
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		541
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		541
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		542
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		542
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		542

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			542
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	544
	<b>Equipment</b> <Eqpmnt>	[0..1]			544
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		544
	<b>Model</b> <Mdl>	[0..1]	Text		544
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		544
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		545
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		545
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		545
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		545
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			545
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546
	<b>AvailableDevice</b> <AvlblDvc>	[0..*]	CodeSet		546

#### 19.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 19.4.3.1.4.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		536
	<b>StreetName</b> <StrtNm>	[0..1]	Text		537
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		537
	<b>PostCode</b> <PstCd>	[0..1]	Text		537
	<b>TownName</b> <TwnNm>	[1..1]	Text		537
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		537
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	537
	<b>GeoLocation</b> <GLctn>	[0..1]			537
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		539

#### 19.4.3.1.4.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318



**19.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**19.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**19.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**19.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**19.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**19.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**19.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			538
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			538
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		539

#### 19.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		538
	<b>Longitude</b> <Long>	[1..1]	Text		538

##### 19.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 19.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 19.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		539
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		539
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		539

#### 19.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 19.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 19.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 19.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 19.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		540
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		540
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		541
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		541
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		541
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		541
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		542
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		542
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		542
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			542
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	544

#### 19.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 19.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 19.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 19.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 19.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 19.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**19.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**19.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**19.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**19.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		543
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		543
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		543
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		543
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	544

#### 19.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 19.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 19.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 19.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**19.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**19.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		544
	<b>Model</b> <Mdl>	[0..1]	Text		544
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		544
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		545
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		545
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		545
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		545
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			545
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546

**19.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**19.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**19.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]



*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		545
	<b>Version</b> <Vrsn>	[1..1]	Text		546

##### 19.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 19.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.4.9 AvailableDevice <AvlblDvc>

*Presence:* [0..\*]

*Definition:* List of ATM devices out of service.

*Datatype:* "ATMDevice2Code" on page 1280

CodeName	Name	Definition
ALRM	AlarmSensors	Alarm sensors, such as tamper, seismic or heat sensors.
BRCD	BarCodeReader	Device scanning barcodes using any scanning technology.
CAMR	Camera	Camera, recorder, video mixer.
CRDD	CardDispenser	Device dispensing card to a consumer.
CRDR	CardUnit	Device to read and optionally write card with various entry modes.
CSHD	CashDispenser	Device dispensing cash in an automated environment, or with an operator present.
CSHI	CashInModule	Device accepting in-out of items as coupons, documents, bills and coins.
CSHR	CashRecycler	Compound device with cash in module, cash dispenser, and cash exchange.
CHCK	CheckReader	Check reader and check image scanner.
CDIS	CustomerConsole	Customer display and keyboard.

CodeName	Name	Definition
DPST	Deposit	Device for the deposit of media in envelopes or deposit of bags containing bulk media.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
DOOR	DoorSensors	Door sensors, such as cabinet, safe or vandal shield doors.
INPM	InputProcessingModule	Self service device processing items.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
SNSR	OtherSensor	Other sensors and indicators unit.
PSBK	PassbookPrinter	Passbook device supporting automatic positioning of the book.
PINR	PINKeypad	Hardware security module allowing the PIN (Personal Identification Number) entry, secure storing of cryptographic keys, and other cryptographic functions.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
SCAN	ScannerPrinter	Device incorporating both the capabilities to scan inserted documents and optionally to print on them.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 19.4.3.1.5 Customer <Cstmr>

*Presence:* [0..1]

*Definition:* Customer involved in the withdrawal transaction.

**Customer <Cstmr>** contains the following **ATMCustomer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			548
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		548
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		549
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		549
	<b>SelectedLanguage &lt;SelctdLang&gt;</b>	[0..1]	CodeSet	C5	549
	<b>Authentication &lt;Authntcn&gt;</b>	[1..*]			549
	<b>AuthenticationMethod &lt;AuthntcnMtd&gt;</b>	[1..1]	CodeSet		550
	<b>TokenRequested &lt;TknReqd&gt;</b>	[0..1]	Indicator		550
	<b>AuthenticationValue &lt;AuthntcnVal&gt;</b>	[0..1]	Binary		550
	<b>ProtectedAuthenticationValue &lt;PrtctdAuthntcnVal&gt;</b>	[0..1]	±		550
	<b>CardholderOnLinePIN &lt;CrdhldrOnLinePIN&gt;</b>	[0..1]	±		551
	<b>AuthenticationResult &lt;AuthntcnRsIt&gt;</b>	[0..*]			551
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		551
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		552
	<b>Result &lt;RsIt&gt;</b>	[0..1]	CodeSet		552
	<b>AdditionalResult &lt;AddtlRsIt&gt;</b>	[0..1]	Text		553
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		553

#### 19.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		548
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		549
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		549

##### 19.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 19.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.5.1.3 CustomerIdentification <CstmrId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

#### Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

#### 19.4.3.1.5.3 Authentication <Authntcn>

*Presence:* [1..\*]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer and its card.

**Authentication <Authntcn>** contains the following **CardholderAuthentication8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		550
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		550
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		550
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		550
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		551

**19.4.3.1.5.3.1 AuthenticationMethod <AuthntcnMtd>***Presence:* [1..1]*Definition:* Method and data intended to be used for this transaction to authenticate the customer or its card.*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**19.4.3.1.5.3.2 TokenRequested <TknReqd>***Presence:* [0..1]*Definition:* True if an authentication token is requested to the host. This token will be provided to the ATM for further authentication.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**19.4.3.1.5.3.3 AuthenticationValue <AuthntcnVal>***Presence:* [0..1]*Definition:* Value or token to be used for customer or card authentication.*Datatype:* "Max5000Binary" on page 1271**19.4.3.1.5.3.4 ProtectedAuthenticationValue <PrtctdAuthntcnVal>***Presence:* [0..1]*Definition:* Protection of the authentication value.

**ProtectedAuthenticationValue <PrctcdAuthntcnVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 19.4.3.1.5.3.5 CardholderOnLinePIN <CrhdldrOnLinePIN>

*Presence:* [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderOnLinePIN <CrhdldrOnLinePIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 19.4.3.1.5.4 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		551
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		552
	<b>Result</b> <Rslt>	[0..1]	CodeSet		552
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		553
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		553

##### 19.4.3.1.5.4.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.

CodeName	Name	Definition
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 19.4.3.1.5.4.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 19.4.3.1.5.4.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.



**19.4.3.1.5.4.4 AdditionalResult <AddtlRslt>***Presence:* [0..1]*Definition:* Additional result of the verification.*Datatype:* "Max500Text" on page 1318**19.4.3.1.5.4.5 AuthenticationToken <AuthntcnTkn>***Presence:* [0..1]*Definition:* Token provided to the ATM for further proof of authentication.*Datatype:* "Max140Binary" on page 1270**19.4.3.1.6 Card <Card>***Presence:* [0..1]*Definition:* Card performing the withdrawal transaction.**Card <Card>** contains the following **PaymentCard22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		553
	<b>FallbackIndicator</b> <Fllbcklnd>	[0..1]	CodeSet		554
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		554
	<b>PlainCardData</b> <PlainCardData>	[0..1]			554
	<b>PAN</b> <PAN>	[0..1]	Text		555
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		555
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		555
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		555
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		555
	<b>Track1</b> <Trck1>	[0..1]	Text		556
	<b>Track2</b> <Trck2>	[0..1]	Text		556
	<b>Track3</b> <Trck3>	[0..1]	Text		556
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		556
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		556
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		556

**19.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>***Presence:* [1..1]*Definition:* Entry mode used to obtain the card data.*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

#### 19.4.3.1.6.2 FallbackIndicator <FllbckInd>

*Presence:* [0..1]

*Definition:* Indicates the occurrence of a fall-back on the card entry mode.

*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

#### 19.4.3.1.6.3 ProtectedCardData <PrctcdCardData>

*Presence:* [0..1]

*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.

**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 19.4.3.1.6.4 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		555
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		555
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		555
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		555
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		555
	<b>Track1</b> <Trck1>	[0..1]	Text		556
	<b>Track2</b> <Trck2>	[0..1]	Text		556
	<b>Track3</b> <Trck3>	[0..1]	Text		556
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		556

#### 19.4.3.1.6.4.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 19.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 19.4.3.1.6.4.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 19.4.3.1.6.4.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 19.4.3.1.6.4.5 ServiceCode <SvcCd>

*Presence:* [0..1]

*Definition:* Services attached to the card, as defined in ISO 7813.

*Datatype:* "Exact3NumericText" on page 1315

**19.4.3.1.6.4.6 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**19.4.3.1.6.4.7 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**19.4.3.1.6.4.8 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**19.4.3.1.6.4.9 CardholderName <CrhdlrNm>**

*Presence:* [0..1]

*Definition:* Name of the cardholder stored on the card.

*Datatype:* "Max45Text" on page 1318

**19.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

**19.4.3.1.6.6 CardCurrencyCode <CardCcyCd>**

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

**19.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the inquiry is performed.

**Context <Cntxt>** contains the following **ATMContext14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		557
	<b>Service</b> <Svc>	[1..1]			557
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		557
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		557
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		557
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		558

#### 19.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		557
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		557
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		557
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		558

##### 19.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 19.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

##### 19.4.3.2.2.3 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of inquiry selected by the customer or the ATM.

*Datatype:* "ATMServiceType3Code" on page 1285

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
CDVF	CardVerification	Verification of the card.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.
BLCQ	BalanceInquiry	Balance inquiry.

#### 19.4.3.2.2.4 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Inquiry information for the transaction.

**Transaction <Tx>** contains the following **ATMTransaction29** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		559
	<b>AccountData</b> <AcctData>	[0..1]			560
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		560
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		561
	<b>AccountName</b> <AcctNm>	[0..1]	Text		561
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			562
	<b>Name</b> <Nm>	[1..1]	Text		562
	<b>Address</b> <Adr>	[1..1]	±		562
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	562
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			563
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	563
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		563
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		563
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			564
	<b>Identification</b> <Id>	[1..1]	Text		564
	<b>Servicer</b> <Svcr>	[0..1]			564
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	564
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		565
	<b>ProtectedAccountData</b> <PrctdAcctData>	[0..1]	±		565
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	±		565
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]	±		565
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		566

#### 19.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

**19.4.3.3.2 AccountData <AcctData>***Presence:* [0..1]*Definition:* Unprotected account information.**AccountData <AcctData>** contains the following **CardAccount7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		560
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		561
	<b>AccountName</b> <AcctNm>	[0..1]	Text		561
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			562
	<b>Name</b> <Nm>	[1..1]	Text		562
	<b>Address</b> <Adr>	[1..1]	±		562
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	562
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			563
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	563
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		563
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		563
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			564
	<b>Identification</b> <Id>	[1..1]	Text		564
	<b>Servicer</b> <Svcr>	[0..1]			564
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	564
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		565

**19.4.3.3.2.1 SelectionMethod <SelctnMtd>***Presence:* [0..1]*Definition:* Method used by the cardholder and the terminal for the choice of the account.*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.



CodeName	Name	Definition
TPSL	TypeSelected	Type of account selected in a list.

#### 19.4.3.3.2.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 19.4.3.3.2.3 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 19.4.3.3.2.4 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		562
	<b>Address</b> <Adr>	[1..1]	±		562

##### 19.4.3.3.2.4.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

##### 19.4.3.3.2.4.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

##### 19.4.3.3.2.5 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**19.4.3.3.2.6 AccountIdentifier <AcctIdr>**

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	563
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		563
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		563
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			564
	<b>Identification</b> <Id>	[1..1]	Text		564

**19.4.3.3.2.6.1 IBAN <IBAN>**

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

**Constraints**

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**19.4.3.3.2.6.2 BBAN <BBAN>**

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**19.4.3.3.2.6.3 UPIC <UPIC>**

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

#### 19.4.3.3.2.6.4 DomesticAccount <DmstAcct>

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		564

##### 19.4.3.3.2.6.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

#### 19.4.3.3.2.7 Servicer <Svcr>

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	564
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		565

##### 19.4.3.3.2.7.1 AnyBIC <AnyBIC>

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**19.4.3.3.2.7.2 ProprietaryIdentification <PrtryId>**

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

**19.4.3.3.3 ProtectedAccountData <PrctcdAcctData>**

*Presence:* [0..1]

*Definition:* Encryption of account information.

**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**19.4.3.3.4 TotalRequestedAmount <TtlReqdAmt>**

*Presence:* [0..1]

*Definition:* Amount to be authorised by the issuer.

**TotalRequestedAmount <TtlReqdAmt>** contains the following elements (see "[AmountAndCurrency1](#)" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

**19.4.3.3.5 DetailedRequestedAmount <DtldReqdAmt>**

*Presence:* [0..1]

*Definition:* Amounts of the withdrawal transaction.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following elements (see "DetailedAmount12" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountToDispense <AmtToDspns>	[1..1]	Amount		1167
	Currency <Ccy>	[0..1]	CodeSet	C1	1167
	Fees <Fees>	[0..*]	±		1167
	Donation <Dontrn>	[0..*]	±		1167

#### 19.4.3.3.6 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### 19.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		566
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		567

#### 19.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).

CodeName	Name	Definition
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 19.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **20      catp.007.001.02**

# **ATMInquiryResponseV02**

### **20.1    MessageDefinition Functionality**

The ATMInquiryResponse message is sent by an ATM manager or its agent to the ATM to provide the information and the outcome of the verifications requested in the ATMInquiryRequest.

#### Outline

The ATMInquiryResponseV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMInquiryResponse  
Encrypted body of the message.
- C. ATMInquiryResponse  
Information related to the response of an ATM inquiry from an ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.



## 20.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <ATMNqryRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			575
	<b>MessageFunction</b> <MsgFctn>	[1..1]			575
	<b>Function</b> <Fctn>	[1..1]	CodeSet		576
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		577
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		577
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		577
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		577
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		577
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		578
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		578
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		578
	<b>Traceability</b> <Tracblt>	[0..*]			578
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		578
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		579
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		579
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		579
	<b>ProtectedATMInquiryResponse</b> <PrctcdATMNqryRspn>	[0..1]	±		579
	<b>ATMInquiryResponse</b> <ATMNqryRspn>	[0..1]			579
	<b>Environment</b> <Envt>	[1..1]			584
	<b>Acquirer</b> <Acqrr>	[0..1]	±		585
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		586
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		586
	<b>ATM</b> <ATM>	[1..1]	±		586
	<b>Customer</b> <Cstmr>	[1..1]			587
	<b>Profile</b> <Prfl>	[0..1]			588
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		588
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		588
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			588
	<b>Method</b> <Mtd>	[1..1]	CodeSet		589

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		589
	<b>Result</b> <RsIt>	[0..1]	CodeSet		590
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		590
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		590
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		590
	<b>PlainCardData</b> <PlainCardData>	[0..1]			590
	<b>PAN</b> <PAN>	[0..1]	Text		591
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		591
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		591
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		591
	<b>Track1</b> <Trck1>	[0..1]	Text		591
	<b>Track2</b> <Trck2>	[0..1]	Text		592
	<b>Track3</b> <Trck3>	[0..1]	Text		592
	<b>Context</b> <Cntxt>	[1..1]			592
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		592
	<b>Service</b> <Svc>	[1..1]			592
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		593
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		593
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		593
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		593
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		594
	<b>Transaction</b> <Tx>	[1..1]			594
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		598
	<b>TransactionResponse</b> <TxRspn>	[1..1]			598
	<b>Response</b> <Rspn>	[1..1]	CodeSet		599
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		599
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		603
	<b>Action</b> <Actn>	[0..*]			603
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		603
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			604
	<b>Format</b> <Frmt>	[0..1]	CodeSet		604

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Message</b> <Msg>	[0..1]	Text		604
	<b>Reference</b> <Ref>	[0..1]	Text		604
	<b>Device</b> <Dvc>	[0..1]	CodeSet		605
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		605
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		605
	<b>CustomerServiceProfile</b> <CstmrSvcPrfl>	[0..1]			606
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		607
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		608
	<b>ProfileDescription</b> <PrflDesc>	[0..1]	Text		608
	<b>AllowedServices</b> <AllwdSvcs>	[0..*]			608
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		609
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			610
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Lbl>	[0..1]	Text		610
	<b>Limits</b> <Lmts>	[0..*]			611
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612
	<b>Label</b> <Lbl>	[0..1]	Text		612
	<b>PreferredWithdrawal</b> <PrefrdWdrwl>	[0..1]			612
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RcptFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614
	<b>CurrencyConversion</b> <CcyConvs>	[0..1]			614
	<b>Result</b> <Rslt>	[1..1]	CodeSet		616
	<b>ResultReason</b> <RsltRsn>	[0..1]	Text		616
	<b>Conversion</b> <Convs>	[0..1]			616
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		617
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			618
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618
	<b>ResultingAmount</b> <RsltAmt>	[1..1]	Amount		618
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		619
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		619
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		619
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		619
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			619
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620
	<b>Name</b> <Nm>	[0..1]	Text		620
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		620
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			620
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			621
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			621
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountInformation</b> <AcctInf>	[0..*]			622
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		624
	<b>AccountName</b> <AcctNm>	[0..1]	Text		624
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	625
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			625
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	625
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		626
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		626
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			626
	<b>Identification</b> <Id>	[1..1]	Text		626
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		626
	<b>Servicer</b> <Svcr>	[0..1]			626
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	627
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		627
	<b>Balance</b> <Bal>	[0..1]			627
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	628
	<b>Sign</b> <Sgn>	[0..1]	Indicator		628
	<b>Date</b> <Dt>	[0..1]	Date		628
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		628
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		628
	<b>AllowedService</b> <AllwdSvc>	[0..*]			629
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		629
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			630
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Labl>	[0..1]	Text		630
	<b>Limits</b> <Lmts>	[0..*]			630
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Lbl>	[0..1]	Text		632
	<b>AccountStatementData</b> <AcctStmntData>	[0..*]	±		632
	<b>CurrencyExchange</b> <CcyXchg>	[0..1]	±		633
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		633
	<b>Command</b> <Cmd>	[0..*]			634
	<b>Type</b> <Tp>	[1..1]	CodeSet		634
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		634
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		635
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		635
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		635
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			635
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		636
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		636

## 20.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 20.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 20.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			575
	<b>Function</b> <Fctn>	[1..1]	CodeSet		576
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		577
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		577
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		577
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		577
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		577
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		578
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		578
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		578
	<b>Traceability</b> <Tracblt>	[0..*]			578
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		578
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		579
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		579
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		579

#### 20.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		576
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		577
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		577

**20.4.1.1.1 Function <Fctn>***Presence:* [1..1]*Definition:* Type of requested function.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.



CodeName	Name	Definition
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 20.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 20.4.1.1.3 HostSERVICECODE <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 20.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 20.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 20.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 20.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

#### 20.4.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

#### 20.4.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

#### 20.4.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		578
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		579
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		579
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		579

##### 20.4.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 20.4.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 20.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 20.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

## 20.4.2 ProtectedATMInquiryResponse <PrtctdATMNqryRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMInquiryResponse <PrtctdATMNqryRspn>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

## 20.4.3 ATMInquiryResponse <ATMNqryRspn>

*Presence:* [0..1]

*Definition:* Information related to the response of an ATM inquiry from an ATM manager.

**ATMInquiryResponse** <ATMNqryRspn> contains the following **ATMInquiryResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			584
	<b>Acquirer</b> <Acqrr>	[0..1]	±		585
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		586
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		586
	<b>ATM</b> <ATM>	[1..1]	±		586
	<b>Customer</b> <Cstmr>	[1..1]			587
	<b>Profile</b> <Prfl>	[0..1]			588
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		588
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		588
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			588
	<b>Method</b> <Mtd>	[1..1]	CodeSet		589
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		589
	<b>Result</b> <Rslt>	[0..1]	CodeSet		590
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		590
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		590
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		590
	<b>PlainCardData</b> <PlainCardData>	[0..1]			590
	<b>PAN</b> <PAN>	[0..1]	Text		591
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		591
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		591
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		591
	<b>Track1</b> <Trck1>	[0..1]	Text		591
	<b>Track2</b> <Trck2>	[0..1]	Text		592
	<b>Track3</b> <Trck3>	[0..1]	Text		592
	<b>Context</b> <Cntxt>	[1..1]			592
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		592
	<b>Service</b> <Svc>	[1..1]			592
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		593
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		593
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		593
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		593

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		594
	<b>Transaction</b> <Tx>	[1..1]			594
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		598
	<b>TransactionResponse</b> <TxRspn>	[1..1]			598
	<b>Response</b> <Rspn>	[1..1]	CodeSet		599
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		599
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		603
	<b>Action</b> <Actn>	[0..*]			603
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		603
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			604
	<b>Format</b> <Frmt>	[0..1]	CodeSet		604
	<b>Message</b> <Msg>	[0..1]	Text		604
	<b>Reference</b> <Ref>	[0..1]	Text		604
	<b>Device</b> <Dvc>	[0..1]	CodeSet		605
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		605
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		605
	<b>CustomerServiceProfile</b> <CstmrSvcPrfl>	[0..1]			606
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		607
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		608
	<b>ProfileDescription</b> <PrflDesc>	[0..1]	Text		608
	<b>AllowedServices</b> <AllwdSvcs>	[0..*]			608
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		609
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			610
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Lbl>	[0..1]	Text		610
	<b>Limits</b> <Lmts>	[0..*]			611
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612
	<b>Label</b> <Lbl>	[0..1]	Text		612
	<b>PreferredWithdrawal</b> <PrefrdWdrwl>	[0..1]			612
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RctFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614
	<b>CurrencyConversion</b> <CcyConvs>	[0..1]			614
	<b>Result</b> <Rslt>	[1..1]	CodeSet		616
	<b>ResultReason</b> <RsltRsn>	[0..1]	Text		616
	<b>Conversion</b> <Convs>	[0..1]			616
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		617
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			618
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618
	<b>ResultingAmount</b> <RsltAmt>	[1..1]	Amount		618
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		619
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		619
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		619
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		619
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			619
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[0..1]	Text		620
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		620
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			620
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			621
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			621
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622
	<b>AccountInformation</b> <AcctInf>	[0..*]			622
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		624
	<b>AccountName</b> <AcctNm>	[0..1]	Text		624
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	625
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			625
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	625
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		626
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		626
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			626
	<b>Identification</b> <Id>	[1..1]	Text		626
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		626
	<b>Servicer</b> <Svcr>	[0..1]			626
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	627
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		627
	<b>Balance</b> <Bal>	[0..1]			627
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	628
	<b>Sign</b> <Sgn>	[0..1]	Indicator		628
	<b>Date</b> <Dt>	[0..1]	Date		628
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		628
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		628

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AllowedService</b> <AllwdSvc>	[0..*]			629
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		629
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			630
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Lbl>	[0..1]	Text		630
	<b>Limits</b> <Lmts>	[0..*]			630
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Lbl>	[0..1]	Text		632
	<b>AccountStatementData</b> <AcctStmntData>	[0..*]	±		632
	<b>CurrencyExchange</b> <CcyXchg>	[0..1]	±		633
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		633
	<b>Command</b> <Cmd>	[0..*]			634
	<b>Type</b> <Tp>	[1..1]	CodeSet		634
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		634
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		635
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		635
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		635

#### 20.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the transaction.



**Environment <Env>** contains the following **ATMEnvironment12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		585
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		586
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		586
	<b>ATM</b> <ATM>	[1..1]	±		586
	<b>Customer</b> <Cstmr>	[1..1]			587
	<b>Profile</b> <Prfl>	[0..1]			588
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		588
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		588
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			588
	<b>Method</b> <Mtd>	[1..1]	CodeSet		589
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		589
	<b>Result</b> <Rslt>	[0..1]	CodeSet		590
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		590
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		590
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		590
	<b>PlainCardData</b> <PlainCardData>	[0..1]			590
	<b>PAN</b> <PAN>	[0..1]	Text		591
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		591
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		591
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		591
	<b>Track1</b> <Trck1>	[0..1]	Text		591
	<b>Track2</b> <Trck2>	[0..1]	Text		592
	<b>Track3</b> <Trck3>	[0..1]	Text		592

#### 20.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**20.4.3.1.2 ATMManager <ATMMgr>**

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMManager <ATMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

**20.4.3.1.3 HostingEntity <HstgNtty>**

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "[TerminalHosting1](#)" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**20.4.3.1.4 ATM <ATM>**

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine2" on page 1175 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 20.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			588
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		588
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		588
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			588
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		589
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		589
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		590
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		590
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		590

#### 20.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		588
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		588

##### 20.4.3.1.5.1.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

##### 20.4.3.1.5.1.2 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

##### 20.4.3.1.5.2 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		589
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		589
	<b>Result</b> <Rslt>	[0..1]	CodeSet		590
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		590
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		590

#### 20.4.3.1.5.2.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 20.4.3.1.5.2.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).

CodeName	Name	Definition
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 20.4.3.1.5.2.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 20.4.3.1.5.2.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 20.4.3.1.5.2.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 20.4.3.1.6 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Encryption of the sensitive card data.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 20.4.3.1.7 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		591
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		591
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		591
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		591
	<b>Track1</b> <Trck1>	[0..1]	Text		591
	<b>Track2</b> <Trck2>	[0..1]	Text		592
	<b>Track3</b> <Trck3>	[0..1]	Text		592

#### 20.4.3.1.7.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 20.4.3.1.7.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 20.4.3.1.7.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 20.4.3.1.7.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 20.4.3.1.7.5 Track1 <Trck1>

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**20.4.3.1.7.6 Track2 <Trck2>***Presence:* [0..1]*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.*Datatype:* "Max37Text" on page 1317**20.4.3.1.7.7 Track3 <Trck3>***Presence:* [0..1]*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.*Datatype:* "Max104Text" on page 1315**20.4.3.2 Context <Cntxt>***Presence:* [1..1]*Definition:* Context in which the inquiry is performed.**Context <Cntxt>** contains the following **ATMContext15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		592
	<b>Service</b> <Svc>	[1..1]			592
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		593
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		593
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		593
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		593
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		594

**20.4.3.2.1 SessionReference <SsnRef>***Presence:* [0..1]*Definition:* Unique identification of the customer session in which the service is performed.*Datatype:* "Max35Text" on page 1317**20.4.3.2.2 Service <Svc>***Presence:* [1..1]*Definition:* Withdrawal service provided by the ATM inside the session.



**Service <Svc>** contains the following **ATMService16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		593
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		593
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		593
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		593
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		594

#### 20.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 20.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 20.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 20.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of withdrawal selected by the customer.

*Datatype:* "ATMServiceType3Code" on page 1285

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
CDVF	CardVerification	Verification of the card.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.

CodeName	Name	Definition
BLCQ	BalanceInquiry	Balance inquiry.

**20.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>**

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3 Transaction <Tx>**

*Presence:* [1..1]

*Definition:* Inquiry information for the transaction.

**Transaction <Tx>** contains the following **ATMTransaction21** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		598
	<b>TransactionResponse</b> <TxRspn>	[1..1]			598
	<b>Response</b> <Rspn>	[1..1]	CodeSet		599
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		599
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		603
	<b>Action</b> <Actn>	[0..*]			603
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		603
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			604
	<b>Format</b> <Frmt>	[0..1]	CodeSet		604
	<b>Message</b> <Msg>	[0..1]	Text		604
	<b>Reference</b> <Ref>	[0..1]	Text		604
	<b>Device</b> <Dvc>	[0..1]	CodeSet		605
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		605
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		605
	<b>CustomerServiceProfile</b> <CstmrSvcPrfl>	[0..1]			606
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		607
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		608
	<b>ProfileDescription</b> <PrflDesc>	[0..1]	Text		608
	<b>AllowedServices</b> <AllwdSvcs>	[0..*]			608
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		609
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			610
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Lbl>	[0..1]	Text		610
	<b>Limits</b> <Lmts>	[0..*]			611
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Label</b> <Lbl>	[0..1]	Text		612
	<b>PreferredWithdrawal</b> <PrefrdWdrwl>	[0..1]			612
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RctFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614
	<b>CurrencyConversion</b> <CcyConvs>	[0..1]			614
	<b>Result</b> <Rslt>	[1..1]	CodeSet		616
	<b>ResultReason</b> <RsltRsn>	[0..1]	Text		616
	<b>Conversion</b> <Convs>	[0..1]			616
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		617
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			618
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618
	<b>ResultingAmount</b> <RsltAmt>	[1..1]	Amount		618
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		619
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		619
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		619
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		619
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			619
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620
	<b>Name</b> <Nm>	[0..1]	Text		620
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		620

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			620
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			621
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			621
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622
	<b>AccountInformation</b> <AcctInf>	[0..*]			622
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		624
	<b>AccountName</b> <AcctNm>	[0..1]	Text		624
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	625
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			625
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	625
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		626
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		626
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			626
	<b>Identification</b> <Id>	[1..1]	Text		626
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		626
	<b>Servicer</b> <Svcr>	[0..1]			626
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	627
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		627
	<b>Balance</b> <Bal>	[0..1]			627
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	628
	<b>Sign</b> <Sgn>	[0..1]	Indicator		628
	<b>Date</b> <Dt>	[0..1]	Date		628
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		628
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		628
	<b>AllowedService</b> <AllwdSvc>	[0..*]			629
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		629

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			630
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Labl>	[0..1]	Text		630
	<b>Limits</b> <Lmts>	[0..*]			630
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Labl>	[0..1]	Text		632
	<b>AccountStatementData</b> <AcctStmntData>	[0..*]	±		632
	<b>CurrencyExchange</b> <CcyXchg>	[0..1]	±		633
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		633
	<b>Command</b> <Cmd>	[0..*]			634
	<b>Type</b> <Tp>	[1..1]	CodeSet		634
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		634
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		635
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		635
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		635

#### 20.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 20.4.3.3.2 TransactionResponse <TxRspn>

*Presence:* [1..1]

*Definition:* Result of the inquiry service.

**TransactionResponse <TxRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		599
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		599
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		603

#### 20.4.3.3.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

#### 20.4.3.3.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.

CodeName	Name	Definition
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.



CodeName	Name	Definition
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).

CodeName	Name	Definition
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

**20.4.3.3.2.3 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max140Text" on page 1316**20.4.3.3.3 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		603
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			604
	<b>Format</b> <Frmt>	[0..1]	CodeSet		604
	<b>Message</b> <Msg>	[0..1]	Text		604
	<b>Reference</b> <Ref>	[0..1]	Text		604
	<b>Device</b> <Dvc>	[0..1]	CodeSet		605
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		605
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		605

**20.4.3.3.3.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.

CodeName	Name	Definition
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 20.4.3.3.3.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		604
	<b>Message</b> <Msg>	[0..1]	Text		604
	<b>Reference</b> <Ref>	[0..1]	Text		604
	<b>Device</b> <Dvc>	[0..1]	CodeSet		605
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		605

##### 20.4.3.3.3.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

##### 20.4.3.3.3.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

##### 20.4.3.3.3.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.2.4 Device <Dvc>***Presence:* [0..1]*Definition:* Device to be used.*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

**20.4.3.3.2.5 MessageContentSignature <MsgCnttSgntr>***Presence:* [0..1]*Definition:* Electronic signature of the message to display or print.*Datatype:* "Max35Binary" on page 1270**20.4.3.3.3 RequestToPerform <ReqToPrfrm>***Presence:* [0..1]*Definition:* Message to send before the completion of the transaction.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CPMD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.

CodeName	Name	Definition
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 20.4.3.3.4 CustomerServiceProfile <CstmrSvcPrfl>

Presence: [0..1]

*Definition:* Profile of the customer with the allowed services and restrictions.

**CustomerServiceProfile** <CstmrSvcPrfl> contains the following **ATMCustomerProfile5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		607
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		608
	<b>ProfileDescription</b> <PrflDesc>	[0..1]	Text		608
	<b>AllowedServices</b> <AllwdSvcs>	[0..*]			608
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		609
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			610
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Lbl>	[0..1]	Text		610
	<b>Limits</b> <Lmts>	[0..*]			611
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612
	<b>Label</b> <Lbl>	[0..1]	Text		612
	<b>PreferredWithdrawal</b> <PrefrdWdrwl>	[0..1]			612
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RctFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614

#### 20.4.3.3.4.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### **20.4.3.3.4.2 CustomerIdentification <CstmrId>**

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### **20.4.3.3.4.3 ProfileDescription <PrflDesc>**

*Presence:* [0..1]

*Definition:* Description of the customer's profile in plaintext.

*Datatype:* "Max70Text" on page 1318

#### **20.4.3.3.4.4 AllowedServices <AllwdSvcs>**

*Presence:* [0..\*]

*Definition:* Services allowed for the customer's profile.



**AllowedServices <AllwdSvcs>** contains the following **ATMService17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		609
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			610
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Labl>	[0..1]	Text		610
	<b>Limits</b> <Lmts>	[0..*]			611
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612
	<b>Label</b> <Labl>	[0..1]	Text		612
	<b>PreferredWithdrawal</b> <PrefrdWdrwl>	[0..1]			612
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RctFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614

#### 20.4.3.3.4.4.1 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of inquiry selected by the customer or the ATM.

*Datatype:* "ATMServiceType8Code" on page 1287

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
PINC	PINChange	Modification of the card PIN value.

CodeName	Name	Definition
STDR	StandardWithdrawal	Standard withdrawal of items.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.
TRFP	Payment	Funds transfer to pay a third party.

#### 20.4.3.3.4.4.2 ServiceVariant <SvcVarnt>

*Presence:* [0..\*]

*Definition:* Variant of the service.

**ServiceVariant <SvcVarnt>** contains the following **ATMService18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		610
	<b>Label</b> <Labl>	[0..1]	Text		610

##### 20.4.3.3.4.4.2.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification of the service variant.

*Datatype:* "Max35Text" on page 1317

##### 20.4.3.3.4.4.2.2 Label <Labl>

*Presence:* [0..1]

*Definition:* Label of the service variant.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.4.4.3 Limits <Lmts>***Presence:* [0..\*]*Definition:* Limits of amounts.**Limits <Lmts>** contains the following **ATMTransactionAmounts6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	611
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		611
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		611
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			611
	<b>Type</b> <Tp>	[1..1]	Text		612
	<b>Amount</b> <Amt>	[1..1]	Amount		612
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	612
	<b>Label</b> <Lbl>	[0..1]	Text		612

**20.4.3.3.4.4.3.1 Currency <Ccy>***Presence:* [0..1]*Definition:* Default currency of the limits.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**20.4.3.3.4.4.3.2 MaximumPossibleAmount <MaxPssblAmt>***Presence:* [0..1]*Definition:* Maximum amount allowed for a transaction in the service.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**20.4.3.3.4.4.3.3 MinimumPossibleAmount <MinPssblAmt>***Presence:* [0..1]*Definition:* Minimum amount allowed for a transaction in the service.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**20.4.3.3.4.4.3.4 AdditionalAmount <AddtlAmt>***Presence:* [0..\*]

*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.

**AdditionalAmount <AddtIAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type &lt;Tp&gt;</b>	[1..1]	Text		612
	<b>Amount &lt;Amt&gt;</b>	[1..1]	Amount		612
	<b>Currency &lt;Ccy&gt;</b>	[0..1]	CodeSet	C1	612
	<b>Label &lt;Labl&gt;</b>	[0..1]	Text		612

#### 20.4.3.3.4.3.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of amount.

*Datatype:* "Max35Text" on page 1317

#### 20.4.3.3.4.3.4.2 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.4.3.4.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 20.4.3.3.4.3.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Description of the amount that may be provided to the customer.

*Datatype:* "Max70Text" on page 1318

#### 20.4.3.3.4.4 PreferredWithdrawal <PrefrdWdrwl>

*Presence:* [0..1]

*Definition:* Preferred withdrawal transaction chosen by the customer.

**PreferredWithdrawal <PrefrdWdrwl>** contains the following **ATMTransaction8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[0..1]	Amount		613
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	613
	<b>ReceiptFlag</b> <RctFlg>	[0..1]	Indicator		613
	<b>BalancePrintFlag</b> <BalPrtFlg>	[0..1]	Indicator		613
	<b>MixType</b> <MixTp>	[0..1]	Text		614
	<b>Mix</b> <Mix>	[0..*]			614
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614

#### 20.4.3.3.4.4.4.1 Amount <Amt>

*Presence:* [0..1]

*Definition:* Amount to dispense.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.4.4.4.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 20.4.3.3.4.4.4.3 ReceiptFlag <RctFlg>

*Presence:* [0..1]

*Definition:* True if a receipt has to be printed by the ATM for the customer.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 20.4.3.3.4.4.4.4 BalancePrintFlag <BalPrtFlg>

*Presence:* [0..1]

*Definition:* True if a balance has to be printed by the ATM on the customer receipt.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 20.4.3.3.4.4.4.5 MixType <MixTp>

*Presence:* [0..1]

*Definition:* Media mix algorithm, the identification of the algorithm is an agreement between the ATM and the ATM manager.

*Datatype:* ["Max35Text"](#) on page 1317

#### 20.4.3.3.4.4.4.6 Mix <Mix>

*Presence:* [0..\*]

*Definition:* Media mix to select.

**Mix <Mix>** contains the following **ATMMediaMix2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Number</b> <Nb>	[1..1]	Quantity		614
	<b>UnitValue</b> <UnitVal>	[1..1]	Amount		614

##### 20.4.3.3.4.4.4.6.1 Number <Nb>

*Presence:* [1..1]

*Definition:* Number of notes or coins.

*Datatype:* ["Number"](#) on page 1314

##### 20.4.3.3.4.4.4.6.2 UnitValue <UnitVal>

*Presence:* [1..1]

*Definition:* Unit value.

*Datatype:* ["ImpliedCurrencyAndAmount"](#) on page 1269

#### 20.4.3.3.5 CurrencyConversion <CcyConvs>

*Presence:* [0..1]

*Definition:* Dynamic currency conversion result.

**CurrencyConversion <CcyConvs>** contains the following **CurrencyConversion10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Result</b> <Rslt>	[1..1]	CodeSet		616
	<b>ResultReason</b> <RsltRsn>	[0..1]	Text		616
	<b>Conversion</b> <Convs>	[0..1]			616
	<b>CurrencyConversionIdentification</b> <CcyConvsId>	[0..1]	Text		617
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			618
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618
	<b>ResultingAmount</b> <RsltAmt>	[1..1]	Amount		618
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		619
	<b>InvertedExchangeRate</b> <NvrtdXchgRate>	[0..1]	Rate		619
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		619
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		619
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			619
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620
	<b>Name</b> <Nm>	[0..1]	Text		620
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		620
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			620
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			621
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621
	<b>DeclarationDetails</b> <DclrtDtls>	[0..1]			621
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622

**20.4.3.3.5.1 Result <Rslt>**

*Presence:* [1..1]

*Definition:* Result of a requested currency conversion.

*Datatype:* "CurrencyConversionResponse2Code" on page 1295

CodeName	Name	Definition
ODCC	Allowed	Dynamic currency conversion may be offered to the cardholder.
ICRD	InvalidCard	The card is not valid for dynamic currency conversion.
IPRD	InvalidProduct	Dynamic currency conversion service cannot be offered for this card product.
IRAT	NoRate	Exchange rates are not available.
NDCC	NotAvailable	Dynamic currency conversion is not available for other reason.
IAMG	InvalidATMManager	The ATM manager is not valid for dynamic currency conversion.
IATM	InvalidATM	The ATM is not valid for dynamic currency conversion.

**20.4.3.3.5.2 ResultReason <RsltRsn>**

*Presence:* [0..1]

*Definition:* Plain text explaining the result of the currency conversion request.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.5.3 Conversion <Convs>**

*Presence:* [0..1]

*Definition:* Information about the conversion of currency.



**Conversion <Convs>** contains the following **CurrencyConversion9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CurrencyConversionIdentification</b> <CcyConvslId>	[0..1]	Text		617
	<b>TargetCurrency</b> <TrgtCcy>	[1..1]			618
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618
	<b>ResultingAmount</b> <RsltAmt>	[1..1]	Amount		618
	<b>ExchangeRate</b> <XchgRate>	[1..1]	Rate		619
	<b>InvertedExchangeRate</b> <NvrtXchgRate>	[0..1]	Rate		619
	<b>QuotationDate</b> <QtnDt>	[0..1]	DateTime		619
	<b>ValidUntil</b> <VldUntil>	[0..1]	DateTime		619
	<b>SourceCurrency</b> <SrcCcy>	[1..1]			619
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620
	<b>Name</b> <Nm>	[0..1]	Text		620
	<b>OriginalAmount</b> <OrgnlAmt>	[1..1]	Amount		620
	<b>CommissionDetails</b> <ComssnDtls>	[0..*]			620
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620
	<b>MarkUpDetails</b> <MrkUpDtls>	[0..*]			621
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621
	<b>DeclarationDetails</b> <DclrtnDtls>	[0..1]			621
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622

#### 20.4.3.3.5.3.1 CurrencyConversionIdentification <CcyConvslId>

*Presence:* [0..1]

*Definition:* Identification of the currency conversion operation.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.5.3.2 TargetCurrency <TrgtCcy>***Presence:* [1..1]*Definition:* Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).**TargetCurrency <TrgtCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	618
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		618
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		618
	<b>Name</b> <Nm>	[0..1]	Text		618

**20.4.3.3.5.3.2.1 AlphaCode <AlphaCd>***Presence:* [0..1]*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**20.4.3.3.5.3.2.2 NumericCode <NmrcCd>***Presence:* [0..1]*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).*Datatype:* "Exact3NumericText" on page 1315**20.4.3.3.5.3.2.3 Decimal <Dcml>***Presence:* [0..1]*Definition:* Maximal number of digits after the decimal separator for the currency.*Datatype:* "Number" on page 1314**20.4.3.3.5.3.2.4 Name <Nm>***Presence:* [0..1]*Definition:* Full name of the currency.*Datatype:* "Max35Text" on page 1317**20.4.3.3.5.3.3 ResultingAmount <RsltgAmt>***Presence:* [1..1]*Definition:* Amount converted in the target currency, including commission and mark-up.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.5.3.4 ExchangeRate <XchgRate>

*Presence:* [1..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the original amount into the resulting amount.

*Datatype:* "PercentageRate" on page 1315

#### 20.4.3.3.5.3.5 InvertedExchangeRate <NvrtdXchgRate>

*Presence:* [0..1]

*Definition:* Exchange rate, expressed as a percentage, applied to convert the resulting amount into the original amount.

*Datatype:* "PercentageRate" on page 1315

#### 20.4.3.3.5.3.6 QuotationDate <QtnDt>

*Presence:* [0..1]

*Definition:* Date and time at which the exchange rate has been quoted.

*Datatype:* "ISODateTime" on page 1312

#### 20.4.3.3.5.3.7 ValidUntil <VldUntil>

*Presence:* [0..1]

*Definition:* Validity limit of the exchange rate.

*Datatype:* "ISODateTime" on page 1312

#### 20.4.3.3.5.3.8 SourceCurrency <SrcCcy>

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 alphanumeric characters).

**SourceCurrency <SrcCcy>** contains the following **CurrencyDetails2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AlphaCode</b> <AlphaCd>	[0..1]	CodeSet	C1	619
	<b>NumericCode</b> <NmrcCd>	[0..1]	Text		620
	<b>Decimal</b> <Dcml>	[0..1]	Quantity		620
	<b>Name</b> <Nm>	[0..1]	Text		620

##### 20.4.3.3.5.3.8.1 AlphaCode <AlphaCd>

*Presence:* [0..1]

*Definition:* Alpha currency code (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**20.4.3.3.5.3.8.2 NumericCode <NmrcCd>**

*Presence:* [0..1]

*Definition:* Numeric currency code (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

**20.4.3.3.5.3.8.3 Decimal <Dcml>**

*Presence:* [0..1]

*Definition:* Maximal number of digits after the decimal separator for the currency.

*Datatype:* "Number" on page 1314

**20.4.3.3.5.3.8.4 Name <Nm>**

*Presence:* [0..1]

*Definition:* Full name of the currency.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.5.3.9 OriginalAmount <OrgnlAmt>**

*Presence:* [1..1]

*Definition:* Original amount in the source currency.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**20.4.3.3.5.3.10 CommissionDetails <ComssnDtls>**

*Presence:* [0..\*]

*Definition:* Commission or additional charges made as part of a currency conversion.

**CommissionDetails <ComssnDtls>** contains the following **Commission19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		620
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		620

**20.4.3.3.5.3.10.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Commission expressed as an amount of money.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**20.4.3.3.5.3.10.2 AdditionalInformation <AddtlInf>**

*Presence:* [0..1]

*Definition:* Additional information about the type of commission.

*Datatype:* "Max350Text" on page 1317

#### 20.4.3.3.5.3.11 MarkupDetails <MrkUpDtls>

*Presence:* [0..\*]

*Definition:* Mark-up made as part of a currency conversion.

**MarkupDetails <MrkUpDtls>** contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Rate</b> <Rate>	[1..1]	Rate		621
	<b>AdditionalInformation</b> <AddtlInf>	[0..1]	Text		621

##### 20.4.3.3.5.3.11.1 Rate <Rate>

*Presence:* [1..1]

*Definition:* Commission expressed as a percentage.

*Datatype:* "PercentageRate" on page 1315

##### 20.4.3.3.5.3.11.2 AdditionalInformation <AddtlInf>

*Presence:* [0..1]

*Definition:* Additional information about the type of markup.

*Datatype:* "Max350Text" on page 1317

#### 20.4.3.3.5.3.12 DeclarationDetails <DclrtnDtls>

*Presence:* [0..1]

*Definition:* Card scheme declaration (disclaimer) to present to the cardholder.

**DeclarationDetails <DclrtnDtls>** contains the following **ActionMessage5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		621
	<b>MessageContent</b> <MsgCntt>	[1..1]	Text		622

##### 20.4.3.3.5.3.12.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Format of the content.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### **20.4.3.3.5.3.12.2 MessageContent <MsgCntt>**

*Presence:* [1..1]

*Definition:* Text or graphic data to be display or printed to the cardholder or the cashier.

*Datatype:* "Max20000Text" on page 1316

#### **20.4.3.3.6 AccountInformation <AcctInf>**

*Presence:* [0..\*]

*Definition:* Account information associated to the customer.

**AccountInformation <AcctInf>** contains the following **CardAccount12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		624
	<b>AccountName</b> <AcctNm>	[0..1]	Text		624
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	625
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			625
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	625
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		626
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		626
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			626
	<b>Identification</b> <Id>	[1..1]	Text		626
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		626
	<b>Servicer</b> <Svcr>	[0..1]			626
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	627
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		627
	<b>Balance</b> <Bal>	[0..1]			627
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	628
	<b>Sign</b> <Sgn>	[0..1]	Indicator		628
	<b>Date</b> <Dt>	[0..1]	Date		628
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		628
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		628
	<b>AllowedService</b> <AllwdSvc>	[0..*]			629
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		629
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			630
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Lbl>	[0..1]	Text		630
	<b>Limits</b> <Lmts>	[0..*]			630
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Labl>	[0..1]	Text		632

#### 20.4.3.3.6.1 AccountType <AcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 20.4.3.3.6.2 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.



Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 20.4.3.3.6.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 20.4.3.3.6.4 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	625
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		626
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		626
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			626
	<b>Identification</b> <Id>	[1..1]	Text		626

#### 20.4.3.3.6.4.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

**Constraints**

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**20.4.3.3.6.4.2 BBAN <BBAN>**

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**20.4.3.3.6.4.3 UPIC <UPIC>**

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

**20.4.3.3.6.4.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		626

**20.4.3.3.6.4.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.6.5 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**20.4.3.3.6.6 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	627
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		627

#### 20.4.3.3.6.6.1 AnyBIC <AnyBIC>

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 20.4.3.3.6.6.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "GenericIdentification1" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 20.4.3.3.6.7 Balance <Bal>

*Presence:* [0..1]

*Definition:* Balance of the account.

**Balance <Bal>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	628
	<b>Sign</b> <Sgn>	[0..1]	Indicator		628
	<b>Date</b> <Dt>	[0..1]	Date		628

#### 20.4.3.3.6.7.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* [C5 "ValidationByTable"](#)

*Datatype:* ["CurrencyAndAmount" on page 1269](#)

##### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 20.4.3.3.6.7.2 Sign <Sgn>

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator" on page 1314](#)):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

#### 20.4.3.3.6.7.3 Date <Dt>

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate" on page 1312](#)

#### 20.4.3.3.6.8 BalanceDisplayFlag <BalDispFlg>

*Presence:* [0..1]

*Definition:* Indicates if the balance must be displayed to the customer on the ATM.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

#### 20.4.3.3.6.9 DefaultAccountIndicator <DfltAcctInd>

*Presence:* [0..1]

*Definition:* Indicates if this is the default account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 20.4.3.3.6.10 AllowedService <AllwdSvc>

*Presence:* [0..\*]

*Definition:* Service allowed on the account.

**AllowedService <AllwdSvc>** contains the following **ATMService19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		629
	<b>ServiceVariant</b> <SvcVarnt>	[0..*]			630
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Labl>	[0..1]	Text		630
	<b>Limits</b> <Lmts>	[0..*]			630
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Labl>	[0..1]	Text		632

##### 20.4.3.3.6.10.1 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of inquiry selected by the customer or the ATM.

*Datatype:* "ATMServiceType8Code" on page 1287

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
PINC	PINChange	Modification of the card PIN value.
STDR	StandardWithdrawal	Standard withdrawal of items.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for

CodeName	Name	Definition
		instance a mobile. The amount could be absent from the withdrawal request message.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.
TRFP	Payment	Funds transfer to pay a third party.

#### 20.4.3.3.6.10.2 ServiceVariant <SvcVarnt>

*Presence:* [0..\*]

*Definition:* Variant of the service.

**ServiceVariant <SvcVarnt>** contains the following **ATMService18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		630
	<b>Label</b> <Labl>	[0..1]	Text		630

##### 20.4.3.3.6.10.2.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification of the service variant.

*Datatype:* "Max35Text" on page 1317

##### 20.4.3.3.6.10.2.2 Label <Labl>

*Presence:* [0..1]

*Definition:* Label of the service variant.

*Datatype:* "Max35Text" on page 1317

##### 20.4.3.3.6.10.3 Limits <Lmts>

*Presence:* [0..\*]

*Definition:* Limits of amounts.

**Limits <Lmts>** contains the following **ATMTransactionAmounts6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	631
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		631
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		631
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			631
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Labl>	[0..1]	Text		632

#### 20.4.3.3.6.10.3.1 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Default currency of the limits.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 20.4.3.3.6.10.3.2 MaximumPossibleAmount <MaxPssblAmt>

*Presence:* [0..1]

*Definition:* Maximum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.6.10.3.3 MinimumPossibleAmount <MinPssblAmt>

*Presence:* [0..1]

*Definition:* Minimum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.6.10.3.4 AdditionalAmount <AddtlAmt>

*Presence:* [0..\*]

*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.

**AdditionalAmount <AddtlAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	Text		632
	<b>Amount</b> <Amt>	[1..1]	Amount		632
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	632
	<b>Label</b> <Labl>	[0..1]	Text		632

#### 20.4.3.3.6.10.3.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of amount.

*Datatype:* "Max35Text" on page 1317

#### 20.4.3.3.6.10.3.4.2 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 20.4.3.3.6.10.3.4.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 20.4.3.3.6.10.3.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Description of the amount that may be provided to the customer.

*Datatype:* "Max70Text" on page 1318

#### 20.4.3.3.7 AccountStatementData <AcctStmtData>

*Presence:* [0..\*]

*Definition:* Statement information of an account.



**AccountStatementData <AcctStmtData>** contains the following elements (see "ATMAccountStatement1" on page 1171 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountIdentifier <AcctIdr>	[1..1]			1172
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	1172
Or	BBAN <BBAN>	[1..1]	IdentifierSet		1173
Or	UPIC <UPIC>	[1..1]	IdentifierSet		1173
Or}	DomesticAccount <DmstAcct>	[1..1]			1173
	Identification <Id>	[1..1]	Text		1173
	AccountName <AcctNm>	[0..1]	Text		1173
	AccountStatement <AcctStmt>	[0..*]			1174
	TransactionDate <TxDt>	[0..1]	Date		1174
	ValueDate <ValDt>	[0..1]	Date		1174
	ShortText <ShrtTxt>	[0..1]	Text		1174
	CreditTransaction <CdtTx>	[0..1]	Indicator		1174
	Amount <Amt>	[1..1]	Amount		1174
	Currency <Ccy>	[0..1]	CodeSet	C1	1175
	LongText <LngTxt>	[0..1]	Text		1175

#### 20.4.3.3.8 CurrencyExchange <CcyXchg>

*Presence:* [0..1]

*Definition:* Exchange rate and calculated amount to be presented to the customer when the dispense currency or the deposit currency (target currency) is different to account currency (source currency).

**CurrencyExchange <CcyXchg>** contains the following elements (see "CurrencyConversion5" on page 1227 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SourceCurrency <SrcCcy>	[1..1]	CodeSet	C1	1227
	SourceCurrencyNumeric <SrcCcyNmrc>	[1..1]	CodeSet	C1	1228
	TargetCurrency <TrgtCcy>	[1..1]	CodeSet	C1	1228
	TargetCurrencyNumeric <TrgtCcyNmrc>	[1..1]	Text		1228
	Rate <Rate>	[1..1]	Rate		1228
	CalculatedAmount <ClctdAmt>	[1..1]	Amount		1229

#### 20.4.3.3.9 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 20.4.3.3.10 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		634
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		634
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		635
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		635
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		635

##### 20.4.3.3.10.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

##### 20.4.3.3.10.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 20.4.3.3.10.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 20.4.3.3.10.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 20.4.3.3.10.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgrtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

### 20.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		636
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		636

#### 20.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 20.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# **21      catp.008.001.02 ATMCompletionAdviceV02**

## **21.1    MessageDefinition Functionality**

The ATMCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a transaction performed on the ATM.

### Outline

The ATMCompletionAdviceV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMCompletionAdvice  
Encrypted body of the message.
- C. ATMCompletionAdvice  
Information related to the completion of an operation on the ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 21.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMCmpltnAdv<	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			643
	<b>MessageFunction</b> <MsgFctn>	[1..1]			643
	<b>Function</b> <Fctn>	[1..1]	CodeSet		644
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		645
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		645
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		645
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		646
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		646
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		646
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		646
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		646
	<b>ProcessState</b> <PrctStat>	[0..1]	Text		646
	<b>Traceability</b> <Tracblt>	[0..*]			646
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		647
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		647
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		647
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		647
	<b>ProtectedATMCompletionAdvice</b> <PrctcdATMCmpltnAdv<	[0..1]	±		647
	<b>ATMCompletionAdvice</b> <ATMCmpltnAdv<	[0..1]			648
	<b>Environment</b> <Envt>	[1..1]			652
	<b>Acquirer</b> <Acqrr>	[0..1]	±		655
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		655
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		655
	<b>ATM</b> <ATM>	[1..1]			656
	<b>Identification</b> <Id>	[1..1]	Text		658
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		658
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		658
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	658
	<b>Location</b> <Lctn>	[0..1]			659

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		659
	<b>StreetName</b> <StrtNm>	[0..1]	Text		660
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		660
	<b>PostCode</b> <PstCd>	[0..1]	Text		660
	<b>TownName</b> <TwnNm>	[1..1]	Text		660
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		660
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	660
	<b>GeoLocation</b> <GLctn>	[0..1]			660
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		662
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		662
	<b>Capabilities</b> <Cpblties>	[0..1]			662
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		663
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		663
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		664
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		664
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		664
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		664
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		665
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		665
	<b>DepositedMedia</b> <DpstlMdia>	[0..*]	CodeSet		665
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			665
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	667
	<b>Equipment</b> <Eqpmnt>	[0..1]			667
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		667
	<b>Model</b> <Mdl>	[0..1]	Text		667
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		667
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		668
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		668
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		668
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		668
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			668
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669
	<b>Customer</b> <Cstmr>	[1..1]			669
	<b>Profile</b> <Prfl>	[0..1]			669
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		670
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		670
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		670
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	670
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			671
	<b>Method</b> <Mtd>	[1..1]	CodeSet		671
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		671
	<b>Result</b> <Rslt>	[0..1]	CodeSet		672
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		672
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		672
	<b>Card</b> <Card>	[0..1]			672
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		673
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		674
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		674
	<b>PlainCardData</b> <PlainCardData>	[0..1]			674
	<b>PAN</b> <PAN>	[0..1]	Text		675
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		675



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		675
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		675
	<b>Track1</b> <Trck1>	[0..1]	Text		675
	<b>Track2</b> <Trck2>	[0..1]	Text		675
	<b>Track3</b> <Trck3>	[0..1]	Text		675
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		675
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		676
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	676
	<b>Context</b> <Cntxt>	[1..1]			676
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		676
	<b>Service</b> <Svc>	[1..1]			676
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		677
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		677
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		677
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		677
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		678
	<b>Transaction</b> <Tx>	[1..1]			678
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		680
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		680
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		680
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		681
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		681
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		681
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		682
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		682
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			682
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		683
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			684
	<b>Response</b> <Rspn>	[1..1]	CodeSet		684
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		684
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		688

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			688
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		688
	<b>Codification</b> <Cdfctn>	[0..1]	Text		688
	<b>Response</b> <Rspn>	[1..1]	Text		689
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		689
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		689
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		689
	<b>Action</b> <Actn>	[0..*]			689
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		689
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			690
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		691
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		693
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			693
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		693
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		694

## 21.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C3 ValidationByTable

Must be a valid terrestrial language.

**C4 ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 21.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 21.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			643
	<b>Function</b> <Fctn>	[1..1]	CodeSet		644
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		645
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		645
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		645
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		646
	<b>ReTransmissionCounter</b> <ReTrnsmssnCnt>	[0..1]	Quantity		646
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		646
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		646
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		646
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		646
	<b>Traceability</b> <Tracblt>	[0..*]			646
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		647
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		647
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		647
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		647

#### 21.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		644
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		645
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		645

#### 21.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.

CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 21.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 21.4.1.1.3 HostSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 21.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**21.4.1.3 ExchangeIdentification <XchgId>**

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

**21.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>**

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**21.4.1.5 CreationDateTime <CreDtTm>**

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

**21.4.1.6 InitiatingParty <InitgPty>**

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

**21.4.1.7 RecipientParty <RcptPty>**

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

**21.4.1.8 ProcessState <PrcStat>**

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

**21.4.1.9 Traceability <Tracblt>**

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		647
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		647
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		647
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		647

#### 21.4.1.9.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 21.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 21.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 21.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

## 21.4.2 ProtectedATMCompletionAdvice <PrtctdATMCmpltnAdvc>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMCompletionAdvice** <PrtctdATMCmpltnAdv< contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 21.4.3      **ATMCompletionAdvice** <ATMCmpltnAdv<

*Presence:* [0..1]

*Definition:* Information related to the completion of an operation on the ATM.



**ATMCompletionAdvice <ATMCmpltnAdv>** contains the following **ATMCompletionAdvice2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			652
	<b>Acquirer</b> <Acqrr>	[0..1]	±		655
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		655
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		655
	<b>ATM</b> <ATM>	[1..1]			656
	<b>Identification</b> <Id>	[1..1]	Text		658
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		658
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		658
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	658
	<b>Location</b> <Lctn>	[0..1]			659
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		659
	<b>StreetName</b> <StrtNm>	[0..1]	Text		660
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		660
	<b>PostCode</b> <PstCd>	[0..1]	Text		660
	<b>TownName</b> <TwnNm>	[1..1]	Text		660
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		660
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	660
	<b>GeoLocation</b> <GLctn>	[0..1]			660
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		662
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		662
	<b>Capabilities</b> <Cpblties>	[0..1]			662
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		663
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		663
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		664

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		664
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		664
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		664
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		665
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		665
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		665
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			665
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	667
	<b>Equipment</b> <Eqpmnt>	[0..1]			667
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		667
	<b>Model</b> <Mdl>	[0..1]	Text		667
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		667
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		668
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		668
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		668
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		668
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			668
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669
	<b>Customer</b> <Cstmr>	[1..1]			669
	<b>Profile</b> <Prfl>	[0..1]			669
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		670
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		670
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		670
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	670
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			671
	<b>Method</b> <Mtd>	[1..1]	CodeSet		671

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		671
	<b>Result</b> <RsIt>	[0..1]	CodeSet		672
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		672
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		672
	<b>Card</b> <Card>	[0..1]			672
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		673
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		674
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		674
	<b>PlainCardData</b> <PlainCardData>	[0..1]			674
	<b>PAN</b> <PAN>	[0..1]	Text		675
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		675
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		675
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		675
	<b>Track1</b> <Trck1>	[0..1]	Text		675
	<b>Track2</b> <Trck2>	[0..1]	Text		675
	<b>Track3</b> <Trck3>	[0..1]	Text		675
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		675
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		676
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	676
	<b>Context</b> <Cntxt>	[1..1]			676
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		676
	<b>Service</b> <Svc>	[1..1]			676
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		677
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		677
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		677
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		677
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		678
	<b>Transaction</b> <Tx>	[1..1]			678
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		680
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		680
	<b>Incident</b> <Incndnt>	[0..*]	CodeSet		680

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		681
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		681
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		681
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		682
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		682
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			682
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		683
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			684
	<b>Response</b> <Rspn>	[1..1]	CodeSet		684
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		684
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		688
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			688
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		688
	<b>Codification</b> <Cdfctn>	[0..1]	Text		688
	<b>Response</b> <Rspn>	[1..1]	Text		689
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		689
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		689
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		689
	<b>Action</b> <Actn>	[0..*]			689
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		689
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			690
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		691
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		693

### 21.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the transaction.

Environment <Envt> contains the following **ATMEnvironment13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		655
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		655
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		655
	<b>ATM</b> <ATM>	[1..1]			656
	<b>Identification</b> <Id>	[1..1]	Text		658
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		658
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		658
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	658
	<b>Location</b> <Lctn>	[0..1]			659
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		659
	<b>StreetName</b> <StrtNm>	[0..1]	Text		660
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		660
	<b>PostCode</b> <PstCd>	[0..1]	Text		660
	<b>TownName</b> <TwnNm>	[1..1]	Text		660
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		660
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	660
	<b>GeoLocation</b> <GLctn>	[0..1]			660
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		662
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		662
	<b>Capabilities</b> <Cpblties>	[0..1]			662
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		663
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		663
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		664
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		664
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		664

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		664
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		665
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		665
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		665
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			665
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlbfFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C3	667
	<b>Equipment</b> <Eqpmnt>	[0..1]			667
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		667
	<b>Model</b> <Mdl>	[0..1]	Text		667
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		667
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		668
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		668
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		668
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		668
	<b>ConfigurationParameter</b> <CfgrnParam>	[0..*]			668
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669
	<b>Customer</b> <Cstmr>	[1..1]			669
	<b>Profile</b> <Prfl>	[0..1]			669
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		670
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		670
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		670
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	670
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			671
	<b>Method</b> <Mtd>	[1..1]	CodeSet		671
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		671
	<b>Result</b> <Rslt>	[0..1]	CodeSet		672

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		672
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		672
	<b>Card</b> <Card>	[0..1]			672
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		673
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		674
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		674
	<b>PlainCardData</b> <PlainCardData>	[0..1]			674
	<b>PAN</b> <PAN>	[0..1]	Text		675
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		675
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		675
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		675
	<b>Track1</b> <Trck1>	[0..1]	Text		675
	<b>Track2</b> <Trck2>	[0..1]	Text		675
	<b>Track3</b> <Trck3>	[0..1]	Text		675
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		675
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		676
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	676

#### 21.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 21.4.3.1.2 ATMManagerIdentification <ATMMgrld>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 21.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.



**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		658
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		658
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		658
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	658
	<b>Location</b> <Lctn>	[0..1]			659
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		659
	<b>StreetName</b> <StrtNm>	[0..1]	Text		660
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		660
	<b>PostCode</b> <PstCd>	[0..1]	Text		660
	<b>TownName</b> <TwnNm>	[1..1]	Text		660
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		660
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	660
	<b>GeoLocation</b> <GLctn>	[0..1]			660
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		662
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		662
	<b>Capabilities</b> <Cpblties>	[0..1]			662
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		663
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		663
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		664
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		664
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		664
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		664
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		665
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		665
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		665

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			665
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	667
	<b>Equipment</b> <Eqpmnt>	[0..1]			667
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		667
	<b>Model</b> <Mdl>	[0..1]	Text		667
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		667
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		668
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		668
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		668
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		668
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			668
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669

#### 21.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 21.4.3.1.4.5 Location <Lctn>

Presence: [0..1]

Definition: Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		659
	<b>StreetName</b> <StrtNm>	[0..1]	Text		660
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		660
	<b>PostCode</b> <PstCd>	[0..1]	Text		660
	<b>TownName</b> <TwnNm>	[1..1]	Text		660
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		660
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	660
	<b>GeoLocation</b> <GLctn>	[0..1]			660
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		662

#### 21.4.3.1.4.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 1318

**21.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**21.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**21.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**21.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**21.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**21.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C2 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**21.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			661
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			661
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		662

#### 21.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		661
	<b>Longitude</b> <Long>	[1..1]	Text		661

##### 21.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 21.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 21.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		662
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		662
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		662

#### 21.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 21.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 21.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 21.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 21.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		663
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		663
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		664
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		664
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		664
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		664
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		665
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		665
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		665
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			665
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	667

#### 21.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 21.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 21.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 21.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 21.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 21.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314



**21.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**21.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**21.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**21.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		666
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		666
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		666
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		666
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	667

#### 21.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 21.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 21.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 21.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**21.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C3 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**21.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		667
	<b>Model</b> <Mdl>	[0..1]	Text		667
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		667
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		668
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		668
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		668
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		668
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			668
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669

**21.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**21.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**21.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		668
	<b>Version</b> <Vrsn>	[1..1]	Text		669

##### 21.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 21.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			669
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		670
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		670
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		670
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	670
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			671
	<b>Method</b> <Mtd>	[1..1]	CodeSet		671
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		671
	<b>Result</b> <Rslt>	[0..1]	CodeSet		672
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		672
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		672

#### 21.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the service.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		670
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		670
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		670

#### 21.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 21.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.5.1.3 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C3 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**21.4.3.1.5.3 AuthenticationResult <AuthntcnRslt>**

*Presence:* [1..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		671
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		671
	<b>Result</b> <Rslt>	[0..1]	CodeSet		672
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		672
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		672

**21.4.3.1.5.3.1 Method <Mtd>**

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**21.4.3.1.5.3.2 VerificationEntity <VrfctnNtty>**

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 21.4.3.1.5.3.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 21.4.3.1.5.3.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 21.4.3.1.5.3.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 21.4.3.1.6 Card <Card>

*Presence:* [0..1]

*Definition:* Card performing the transaction.



**Card** <Card> contains the following **PaymentCard23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		673
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		674
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		674
	<b>PlainCardData</b> <PlainCardData>	[0..1]			674
	<b>PAN</b> <PAN>	[0..1]	Text		675
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		675
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		675
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		675
	<b>Track1</b> <Trck1>	[0..1]	Text		675
	<b>Track2</b> <Trck2>	[0..1]	Text		675
	<b>Track3</b> <Trck3>	[0..1]	Text		675
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		675
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		676
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C4	676

#### 21.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>

*Presence:* [1..1]

*Definition:* Entry mode that used to obtain the card data.

*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

**21.4.3.1.6.2 FallbackIndicator <FllbckInd>***Presence:* [0..1]*Definition:* Indicate the occurrence of a fall-back on the card entry mode.*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

**21.4.3.1.6.3 ProtectedCardData <PrctcdCardData>***Presence:* [0..1]*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**21.4.3.1.6.4 PlainCardData <PlainCardData>***Presence:* [0..1]*Definition:* Sensitive data associated with the card performing the transaction.**PlainCardData <PlainCardData>** contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		675
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		675
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		675
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		675
	<b>Track1</b> <Trck1>	[0..1]	Text		675
	<b>Track2</b> <Trck2>	[0..1]	Text		675
	<b>Track3</b> <Trck3>	[0..1]	Text		675

**21.4.3.1.6.4.1 PAN <PAN>**

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

**21.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>**

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

**21.4.3.1.6.4.3 EffectiveDate <FctvDt>**

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**21.4.3.1.6.4.4 ExpiryDate <XpryDt>**

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**21.4.3.1.6.4.5 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**21.4.3.1.6.4.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**21.4.3.1.6.4.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**21.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

#### 21.4.3.1.6.6 CardCurrencyCode <CardCcyCd>

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

#### 21.4.3.1.6.7 ElectronicPurseBalance <ElctrncPrsBal>

*Presence:* [0..1]

*Definition:* Balance of the captured card or epurse if available.

*Impacted by:* C4 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

##### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 21.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		676
	<b>Service</b> <Svc>	[1..1]			676
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		677
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		677
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		677
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		677
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		678

#### 21.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		677
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		677
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		677
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		677
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		678

#### 21.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of transaction selected by the customer.

*Datatype:* "ATMServiceType7Code" on page 1286

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.

CodeName	Name	Definition
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.
MCHG	MakingChange	Making change between media types.
TRFP	Payment	Funds transfer to pay a third party.

#### 21.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Transaction for which the completion is sent.

**Transaction <Tx>** contains the following **ATMTransaction20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		680
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		680
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		680
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		681
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		681
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		681
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		682
	<b>CustomerConsent</b> <CstmrCnsnt>	[0..1]	Indicator		682
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			682
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		683
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			684
	<b>Response</b> <Rspn>	[1..1]	CodeSet		684
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		684
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		688
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			688
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		688
	<b>Codification</b> <Cdftn>	[0..1]	Text		688
	<b>Response</b> <Rspn>	[1..1]	Text		689
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		689
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		689
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		689
	<b>Action</b> <Actn>	[0..*]			689
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		689
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			690
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		691
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		693

**21.4.3.3.1 TransactionIdentification <TxId>***Presence:* [1..1]*Definition:* Identification of the transaction assigned by the ATM.**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

**21.4.3.3.2 TransactionStatus <TxSts>***Presence:* [1..1]*Definition:* Outcome of the financial transaction for the customer.*Datatype:* ["ATMTransactionStatus1Code"](#) on page 1288

CodeName	Name	Definition
DOBT	Doubt	Undetermined status, for instance possibly forgotten notes.
FAIL	Failure	Transaction failed.
SCSS	Success	Transaction was successfully completed.

**21.4.3.3.3 Incident <IncDnt>***Presence:* [0..\*]*Definition:* Incident occurring during the processing of the transaction.*Datatype:* ["FailureReason7Code"](#) on page 1297

CodeName	Name	Definition
CDCP	CardCaptured	ATM manager has requested to capture the card.
CDCL	CardDeclined	Integrated circuit card declines the transaction before or after the authorisation.
CDER	CardError	Unable to complete transaction with the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CUDC	CustomerDecline	Customer has declined additional fees or a lower amount, transaction fails.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
FILL	FulfillmentError	Unable to fulfil, for instance dispensing the cash.
MALF	Malfunction	Suspected malfunction.



CodeName	Name	Definition
NDCL	OnLineDeclined	Online authorisation declined the transaction.
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
TIMO	TimeOut	Timeout while waiting for a response to a request message, or no response was received (for example connection release before receiving the response).
LATE	TooLateResponse	Response to the previous message was received too late.
UCPT	UnableToCapture	Unable to capture the card as requested.
UCMP	UnableToComplete	Unable to complete the transaction after the authorisation response.
USND	UnableToSend	Unable to deliver the request message to the recipient party.
CSRV	OutOfCustomerService	ATM manager has requested to the ATM to stop customer services.
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CUTO	CustomerTimeOut	Customer has not been performed in time an action.

#### 21.4.3.3.4 IncidentDetail <IncDntDtl>

*Presence:* [0..\*]

*Definition:* Explanation of the incident.

*Datatype:* "Max70Text" on page 1318

#### 21.4.3.3.5 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.3.6 RequestedReceipt <ReqdRct>

*Presence:* [0..1]

*Definition:* True if the customer has requested a receipt.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**21.4.3.3.7 ReceiptPrinted <RctPrtd>**

*Presence:* [0..1]

*Definition:* True if a receipt has been printed and presented to the customer.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**21.4.3.3.8 CustomerConsent <CstmrCnsnt>**

*Presence:* [0..1]

*Definition:* Explicit consent expressed by a customer on a card-related service proposed by an acquirer or an issuer or any agent acting on behalf of one of them.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**21.4.3.3.9 AuthorisationResult <AuthstnRslt>**

*Presence:* [0..1]

*Definition:* Outcome of the withdrawal authorisation.

**AuthorisationResult <AuthstnRslt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		683
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			684
	<b>Response</b> <Rspn>	[1..1]	CodeSet		684
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		684
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		688
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			688
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		688
	<b>Codification</b> <Cdfctn>	[0..1]	Text		688
	<b>Response</b> <Rspn>	[1..1]	Text		689
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		689
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		689
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		689
	<b>Action</b> <Actn>	[0..*]			689
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		689
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			690
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		691

#### 21.4.3.3.9.1 AuthorisationEntity <AuthstnNtty>

*Presence:* [0..1]

*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).

*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.

CodeName	Name	Definition
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 21.4.3.3.9.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		684
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		684
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		688

##### 21.4.3.3.9.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 21.4.3.3.9.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.

CodeName	Name	Definition
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.

CodeName	Name	Definition
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.

CodeName	Name	Definition
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.

CodeName	Name	Definition
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 21.4.3.3.9.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 21.4.3.3.9.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		688
	<b>Codification</b> <Cdfctn>	[0..1]	Text		688
	<b>Response</b> <Rspn>	[1..1]	Text		689
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		689
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		689

#### 21.4.3.3.9.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.3.9.3.2 Codification <Cdfctn>

*Presence:* [0..1]

*Definition:* Codification of the response (for instance ISO 8583, IFX).

*Datatype:* "Max35Text" on page 1317



**21.4.3.3.9.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**21.4.3.3.9.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**21.4.3.3.9.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**21.4.3.3.9.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**21.4.3.3.9.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		689
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			690
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		691

**21.4.3.3.9.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 21.4.3.3.9.5.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		690
	<b>Message</b> <Msg>	[0..1]	Text		691
	<b>Reference</b> <Ref>	[0..1]	Text		691
	<b>Device</b> <Dvc>	[0..1]	CodeSet		691
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		691

#### 21.4.3.3.9.5.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.

CodeName	Name	Definition
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 21.4.3.3.9.5.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

#### 21.4.3.3.9.5.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

#### 21.4.3.3.9.5.2.4 Device <Dvc>

*Presence:* [0..1]

*Definition:* Device to be used.

*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 21.4.3.3.9.5.2.5 MessageContentSignature <MsgCnttSgntr>

*Presence:* [0..1]

*Definition:* Electronic signature of the message to display or print.

*Datatype:* "Max35Binary" on page 1270

#### 21.4.3.3.9.5.3 RequestToPerform <ReqToPrfrm>

*Presence:* [0..1]

*Definition:* Message to send before the completion of the transaction.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 21.4.3.3.10 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### 21.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		693
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		694

#### 21.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).

CodeName	Name	Definition
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 21.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **22      catp.009.001.02 ATMCompletionAcknowledgementV02**

### **22.1    MessageDefinition Functionality**

The ATMCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMCompletionAdvice message.

#### Outline

The ATMCompletionAcknowledgementV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMCompletionAcknowledgement  
Encrypted body of the message.
- C. ATMCompletionAcknowledgement  
Information related to the acknowledgement of an ATM completion on the ATM. manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 22.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root &lt;Document&gt; &lt;ATMCmpltnAck&gt;</i>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			697
	<b>MessageFunction</b> <MsgFctn>	[1..1]			698
	<b>Function</b> <Fctn>	[1..1]	CodeSet		698
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		700
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		700
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		700
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		700
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		700
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		701
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		701
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		701
	<b>ProcessState</b> <PrclStat>	[0..1]	Text		701
	<b>Traceability</b> <Tracblt>	[0..*]			701
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		701
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		702
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		702
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		702
	<b>ProtectedATMCompletionAcknowledgement</b> <PrctdATMCmpltnAck>	[0..1]	±		702
	<b>ATMCompletionAcknowledgement</b> <ATMCmpltnAck>	[0..1]			702
	<b>ATM</b> <ATM>	[1..1]	±		703
	<b>Context</b> <Cntxt>	[1..1]			704
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		705
	<b>Service</b> <Svc>	[1..1]			705
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		705
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		705
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		706
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		706
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		706



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Transaction</b> <Tx>	[1..1]			706
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		707
	<b>Response</b> <Rspn>	[1..1]	CodeSet		707
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		707
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		711
	<b>Command</b> <Cmd>	[0..*]			711
	<b>Type</b> <Tp>	[1..1]	CodeSet		711
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		712
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		712
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		712
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		713
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			713
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		713
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		714

## 22.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 22.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 22.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			698
	<b>Function</b> <Fctn>	[1..1]	CodeSet		698
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		700
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		700
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		700
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		700
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		700
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		701
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		701
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		701
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		701
	<b>Traceability</b> <Tracblt>	[0..*]			701
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		701
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		702
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		702
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		702

#### 22.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		698
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		700
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		700

##### 22.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 22.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 22.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 22.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 22.4.1.3 ExchangeIdentification <Xchgld>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 22.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

### 22.4.1.5 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

### 22.4.1.6 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

### 22.4.1.7 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

### 22.4.1.8 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 22.4.1.9 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		701
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		702
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		702
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		702

#### 22.4.1.9.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 22.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 22.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 22.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 22.4.2 ProtectedATMCompletionAcknowledgement <PrtctdATMCmpltnAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMCompletionAcknowledgement <PrtctdATMCmpltnAck>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 22.4.3 ATMCompletionAcknowledgement <ATMCmpltnAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement of an ATM completion on the ATM. manager.

**ATMCompletionAcknowledgement <ATMCmpltnAck>** contains the following **ATMCompletionAcknowledgement2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATM</b> <ATM>	[1..1]	±		703
	<b>Context</b> <Cntxt>	[1..1]			704
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		705
	<b>Service</b> <Svc>	[1..1]			705
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		705
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		705
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		706
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		706
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		706
	<b>Transaction</b> <Tx>	[1..1]			706
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		707
	<b>Response</b> <Rspn>	[1..1]	CodeSet		707
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		707
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		711
	<b>Command</b> <Cmd>	[0..*]			711
	<b>Type</b> <Tp>	[1..1]	CodeSet		711
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		712
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		712
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		712
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		713

### 22.4.3.1 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

### 22.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.



**Context <Cntxt>** contains the following **ATMContext13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		705
	<b>Service</b> <Svc>	[1..1]			705
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		705
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		705
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		706
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		706
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		706

#### 22.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 22.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		705
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		705
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		706
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		706
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		706

##### 22.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 22.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

**22.4.3.2.2.3 HostServiceCode <HstSvcCd>***Presence:* [0..1]*Definition:* Codification of the type of service for the host.*Datatype:* "Max35Text" on page 1317**22.4.3.2.2.4 ServiceType <SvcTp>***Presence:* [1..1]*Definition:* Describes the type of transaction selected by the customer.*Datatype:* "ATMServiceType7Code" on page 1286

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorized by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.
MCHG	MakingChange	Making change between media types.
TRFP	Payment	Funds transfer to pay a third party.

**22.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>***Presence:* [0..\*]*Definition:* Identification of the variant of the service.*Datatype:* "Max35Text" on page 1317**22.4.3.3 Transaction <Tx>***Presence:* [1..1]*Definition:* Acknowledgement of the completion advice.

**Transaction <Tx>** contains the following **ATMTransaction18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		707
	<b>Response</b> <Rspn>	[1..1]	CodeSet		707
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		707
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		711
	<b>Command</b> <Cmd>	[0..*]			711
	<b>Type</b> <Tp>	[1..1]	CodeSet		711
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		712
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		712
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		712
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		713

#### 22.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 22.4.3.3.2 Response <Rspn>

*Presence:* [1..1]

*Definition:* Response to the advice.

*Datatype:* ["Response4Code"](#) on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

#### 22.4.3.3.3 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* ["ResultDetail4Code"](#) on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.

CodeName	Name	Definition
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.

CodeName	Name	Definition
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SECO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnline	Transaction cannot be processed online by the terminal.

CodeName	Name	Definition
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 22.4.3.3.4 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 22.4.3.3.5 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		711
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		712
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		712
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		712
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		713

##### 22.4.3.3.5.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 22.4.3.3.5.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 22.4.3.3.5.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 22.4.3.3.5.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.



**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 22.4.3.3.5.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 22.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		713
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		714

### 22.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 22.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **23      catp.010.001.02          ATMPINManagementRequestV02**

### **23.1    MessageDefinition Functionality**

The ATMPINManagementRequest message is sent by an ATM to an ATM manager to request an operation on the cardholder PIN.

#### Outline

The ATMPINManagementRequestV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMPINManagementRequest  
Encrypted body of the message.
- C. ATMPINManagementRequest  
Information related to the request of a PIN management from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 23.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMPINMgmtReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			720
	<b>MessageFunction</b> <MsgFctn>	[1..1]			721
	<b>Function</b> <Fctn>	[1..1]	CodeSet		721
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		723
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		723
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		723
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		723
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		723
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		723
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		724
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		724
	<b>Traceability</b> <Tracblt>	[0..*]			724
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		724
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		724
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		725
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		725
	<b>ProtectedATMPINManagementRequest</b> <PrctcdATMPINMgmtReq>	[0..1]	±		725
	<b>ATMPINManagementRequest</b> <ATMPINMgmtReq>	[0..1]			725
	<b>Environment</b> <Envnt>	[1..1]			729
	<b>Acquirer</b> <Acqrr>	[0..1]	±		732
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		733
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		733
	<b>ATM</b> <ATM>	[1..1]			733
	<b>Identification</b> <Id>	[1..1]	Text		735
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		735
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		735
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	735
	<b>Location</b> <Lctn>	[0..1]			736

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		736
	<b>StreetName</b> <StrtNm>	[0..1]	Text		737
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		737
	<b>PostCode</b> <PstCd>	[0..1]	Text		737
	<b>TownName</b> <TwnNm>	[1..1]	Text		737
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		737
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	737
	<b>GeoLocation</b> <GLctn>	[0..1]			737
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		739
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		739
	<b>Capabilities</b> <Cpblties>	[0..1]			739
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		740
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		740
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		741
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		741
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		741
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		741
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		742
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		742
	<b>DepositedMedia</b> <DpstlMdia>	[0..*]	CodeSet		742
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			742
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	744
	<b>Equipment</b> <Eqpmnt>	[0..1]			744
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		744
	<b>Model</b> <Mdl>	[0..1]	Text		744
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		744
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		745
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		745
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		745
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		745
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			745
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746
	<b>Customer</b> <Cstmr>	[1..1]			746
	<b>Profile</b> <Prfl>	[0..1]			747
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		747
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		748
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		748
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	748
	<b>Authentication</b> <Authntcn>	[1..*]			748
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		749
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		749
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		749
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		749
	<b>CardholderOnLinePIN</b> <CrhldrOnLinePIN>	[0..1]	±		750
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			750
	<b>Method</b> <Mtd>	[1..1]	CodeSet		750
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		751
	<b>Result</b> <Rslt>	[0..1]	CodeSet		751
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		752
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		752
	<b>Card</b> <Card>	[0..1]			752

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		752
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		753
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		753
	<b>PlainCardData</b> <PlainCardData>	[0..1]			753
	<b>PAN</b> <PAN>	[0..1]	Text		754
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		754
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		754
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		754
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		754
	<b>Track1</b> <Trck1>	[0..1]	Text		755
	<b>Track2</b> <Trck2>	[0..1]	Text		755
	<b>Track3</b> <Trck3>	[0..1]	Text		755
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		755
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		755
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		755
	<b>Context</b> <Cntxt>	[1..1]			755
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		756
	<b>Service</b> <Svc>	[1..1]			756
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		756
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		756
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		756
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		757
	<b>Transaction</b> <Tx>	[1..1]			757
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		757
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		757
	<b>CardholderNewPIN</b> <CrhdldrNewPIN>	[0..1]	±		757
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		758
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			758
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		758
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		759

## 23.3 Constraints

### C1 **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C3 **ValidationByTable**

Must be a valid terrestrial language.

## 23.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 23.4.1 **Header <Hdr>**

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.



**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			721
	<b>Function</b> <Fctn>	[1..1]	CodeSet		721
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		723
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		723
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		723
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		723
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		723
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		723
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		724
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		724
	<b>Traceability</b> <Tracblt>	[0..*]			724
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		724
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		724
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		725
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		725

### 23.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		721
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		723
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		723

#### 23.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 23.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 23.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 23.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 23.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 23.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 23.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 23.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 23.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 23.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		724
	SequenceNumber <SeqNb>	[0..1]	Text		724
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		725
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		725

##### 23.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 23.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 23.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 23.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 23.4.2 ProtectedATMPINManagementRequest <PrtctdATMPINMgmtReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMPINManagementRequest <PrtctdATMPINMgmtReq>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 23.4.3 ATMPINManagementRequest <ATMPINMgmtReq>

*Presence:* [0..1]

*Definition:* Information related to the request of a PIN management from an ATM.

**ATMPINManagementRequest** <ATMPINMgmtReq> contains the following  
**ATMPINManagementRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			729
	<b>Acquirer</b> <Acqrr>	[0..1]	±		732
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		733
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		733
	<b>ATM</b> <ATM>	[1..1]			733
	<b>Identification</b> <Id>	[1..1]	Text		735
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		735
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		735
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	735
	<b>Location</b> <Lctn>	[0..1]			736
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		736
	<b>StreetName</b> <StrtNm>	[0..1]	Text		737
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		737
	<b>PostCode</b> <PstCd>	[0..1]	Text		737
	<b>TownName</b> <TwnNm>	[1..1]	Text		737
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		737
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	737
	<b>GeoLocation</b> <GLctn>	[0..1]			737
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		739
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		739
	<b>Capabilities</b> <Cpblties>	[0..1]			739
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		740
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		740
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		741

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		741
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		741
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		741
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		742
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		742
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		742
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			742
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	744
	<b>Equipment</b> <Eqpmnt>	[0..1]			744
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		744
	<b>Model</b> <Mdl>	[0..1]	Text		744
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		744
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		745
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		745
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		745
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		745
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			745
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746
	<b>Customer</b> <Cstmr>	[1..1]			746
	<b>Profile</b> <Prfl>	[0..1]			747
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		747
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		748
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		748
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	748
	<b>Authentication</b> <Authntcn>	[1..*]			748
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		749

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		749
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		749
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		749
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		750
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			750
	<b>Method</b> <Mtd>	[1..1]	CodeSet		750
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		751
	<b>Result</b> <Rslt>	[0..1]	CodeSet		751
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		752
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		752
	<b>Card</b> <Card>	[0..1]			752
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		752
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		753
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		753
	<b>PlainCardData</b> <PlainCardData>	[0..1]			753
	<b>PAN</b> <PAN>	[0..1]	Text		754
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		754
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		754
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		754
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		754
	<b>Track1</b> <Trck1>	[0..1]	Text		755
	<b>Track2</b> <Trck2>	[0..1]	Text		755
	<b>Track3</b> <Trck3>	[0..1]	Text		755
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		755
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		755
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		755
	<b>Context</b> <Cntxt>	[1..1]			755
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		756
	<b>Service</b> <Svc>	[1..1]			756
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		756
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		756



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		756
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		757
	<b>Transaction</b> <Tx>	[1..1]			757
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		757
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		757
	<b>CardholderNewPIN</b> <CrhdldrNewPIN>	[0..1]	±		757
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		758

### 23.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment in which the transaction is performed.

**Environment <Envt>** contains the following **ATMEnvironment11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		732
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		733
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		733
	<b>ATM</b> <ATM>	[1..1]			733
	<b>Identification</b> <Id>	[1..1]	Text		735
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		735
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		735
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	735
	<b>Location</b> <Lctn>	[0..1]			736
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		736
	<b>StreetName</b> <StrtNm>	[0..1]	Text		737
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		737
	<b>PostCode</b> <PstCd>	[0..1]	Text		737
	<b>TownName</b> <TwnNm>	[1..1]	Text		737
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		737
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	737
	<b>GeoLocation</b> <GLctn>	[0..1]			737
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		739
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		739
	<b>Capabilities</b> <Cpblties>	[0..1]			739
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		740
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		740
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		741
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		741
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		741

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		741
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		742
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		742
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		742
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			742
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlbfFrmnt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C3	744
	<b>Equipment</b> <Eqpmnt>	[0..1]			744
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		744
	<b>Model</b> <Mdl>	[0..1]	Text		744
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		744
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		745
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		745
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		745
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		745
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			745
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746
	<b>Customer</b> <Cstmr>	[1..1]			746
	<b>Profile</b> <Prfl>	[0..1]			747
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		747
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		748
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		748
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C3	748
	<b>Authentication</b> <Authntcn>	[1..*]			748
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		749
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		749
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		749

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		749
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		750
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			750
	<b>Method</b> <Mtd>	[1..1]	CodeSet		750
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		751
	<b>Result</b> <Rslt>	[0..1]	CodeSet		751
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		752
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		752
	<b>Card</b> <Card>	[0..1]			752
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		752
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		753
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		753
	<b>PlainCardData</b> <PlainCardData>	[0..1]			753
	<b>PAN</b> <PAN>	[0..1]	Text		754
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		754
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		754
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		754
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		754
	<b>Track1</b> <Trck1>	[0..1]	Text		755
	<b>Track2</b> <Trck2>	[0..1]	Text		755
	<b>Track3</b> <Trck3>	[0..1]	Text		755
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		755
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		755
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		755

#### 23.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**23.4.3.1.2 ATMManagerIdentification <ATMMgrId>***Presence:* [0..1]*Definition:* Identification of the ATM manager.*Datatype:* "Max35Text" on page 1317**23.4.3.1.3 HostingEntity <HstgNtty>***Presence:* [0..1]*Definition:* Entity hosting the ATM terminal.**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**23.4.3.1.4 ATM <ATM>***Presence:* [1..1]*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		735
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		735
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		735
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	735
	<b>Location</b> <Lctn>	[0..1]			736
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		736
	<b>StreetName</b> <StrtNm>	[0..1]	Text		737
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		737
	<b>PostCode</b> <PstCd>	[0..1]	Text		737
	<b>TownName</b> <TwnNm>	[1..1]	Text		737
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		737
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	737
	<b>GeoLocation</b> <GLctn>	[0..1]			737
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		739
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		739
	<b>Capabilities</b> <Cpblties>	[0..1]			739
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		740
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		740
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		741
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		741
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		741
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		741
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		742
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		742
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		742

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			742
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	744
	<b>Equipment</b> <Eqpmnt>	[0..1]			744
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		744
	<b>Model</b> <Mdl>	[0..1]	Text		744
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		744
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		745
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		745
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		745
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		745
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			745
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746

#### 23.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 23.4.3.1.4.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		736
	<b>StreetName</b> <StrtNm>	[0..1]	Text		737
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		737
	<b>PostCode</b> <PstCd>	[0..1]	Text		737
	<b>TownName</b> <TwnNm>	[1..1]	Text		737
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		737
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C2	737
	<b>GeoLocation</b> <GLctn>	[0..1]			737
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrd>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrd>	[1..1]	Quantity		739

#### 23.4.3.1.4.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318



**23.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**23.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**23.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**23.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**23.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**23.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C2 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**23.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			738
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			738
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		739

#### 23.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		738
	<b>Longitude</b> <Long>	[1..1]	Text		738

##### 23.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 23.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 23.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		739
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		739
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		739

#### 23.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 23.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 23.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 23.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 23.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpbilities>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		740
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		740
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		741
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		741
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		741
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		741
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		742
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		742
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		742
	<b>MessageCapabilities</b> <MsgCpbilities>	[0..*]			742
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	744

#### 23.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 23.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 23.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 23.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 23.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 23.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**23.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**23.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**23.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**23.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		743
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		743
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		743
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		743
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C3	744

#### 23.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 23.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 23.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 23.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**23.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C3 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**23.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		744
	<b>Model</b> <Mdl>	[0..1]	Text		744
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		744
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		745
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		745
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		745
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		745
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			745
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746

**23.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**23.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**23.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]



*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		745
	<b>Version</b> <Vrsn>	[1..1]	Text		746

##### 23.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

**23.4.3.1.4.8.8.2 Version <Vrsn>**

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

**23.4.3.1.5 Customer <Cstmr>**

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			747
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		747
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		748
	<b>CustomerIdentification &lt;Cstmrlid&gt;</b>	[0..1]	Text		748
	<b>SelectedLanguage &lt;SelctdLang&gt;</b>	[0..1]	CodeSet	C3	748
	<b>Authentication &lt;Authntcn&gt;</b>	[1..*]			748
	<b>AuthenticationMethod &lt;AuthntcnMtd&gt;</b>	[1..1]	CodeSet		749
	<b>TokenRequested &lt;TknReqd&gt;</b>	[0..1]	Indicator		749
	<b>AuthenticationValue &lt;AuthntcnVal&gt;</b>	[0..1]	Binary		749
	<b>ProtectedAuthenticationValue &lt;PrtctdAuthntcnVal&gt;</b>	[0..1]	±		749
	<b>CardholderOnLinePIN &lt;CrdhldrOnLinePIN&gt;</b>	[0..1]	±		750
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			750
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		750
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		751
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		751
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		752
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		752

#### 23.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		747
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		748
	<b>CustomerIdentification &lt;Cstmrlid&gt;</b>	[0..1]	Text		748

##### 23.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 23.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.5.1.3 CustomerIdentification <CstmrId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C3 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

#### Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

#### 23.4.3.1.5.3 Authentication <Authntcn>

*Presence:* [1..\*]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer and its card.

**Authentication <Authntcn>** contains the following **CardholderAuthentication8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		749
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		749
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		749
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		749
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		750

**23.4.3.1.5.3.1 AuthenticationMethod <AuthntcnMtd>**

*Presence:* [1..1]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer or its card.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**23.4.3.1.5.3.2 TokenRequested <TknReqd>**

*Presence:* [0..1]

*Definition:* True if an authentication token is requested to the host. This token will be provided to the ATM for further authentication.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**23.4.3.1.5.3.3 AuthenticationValue <AuthntcnVal>**

*Presence:* [0..1]

*Definition:* Value or token to be used for customer or card authentication.

*Datatype:* "Max5000Binary" on page 1271

**23.4.3.1.5.3.4 ProtectedAuthenticationValue <PrtctdAuthntcnVal>**

*Presence:* [0..1]

*Definition:* Protection of the authentication value.

**ProtectedAuthenticationValue <PrctcdAuthntcnVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 23.4.3.1.5.3.5 CardholderOnLinePIN <CrhdldrOnLinePIN>

*Presence:* [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderOnLinePIN <CrhdldrOnLinePIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 23.4.3.1.5.4 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		750
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		751
	<b>Result</b> <Rslt>	[0..1]	CodeSet		751
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		752
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		752

##### 23.4.3.1.5.4.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.

CodeName	Name	Definition
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 23.4.3.1.5.4.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 23.4.3.1.5.4.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

**23.4.3.1.5.4.4 AdditionalResult <AddtlRslt>***Presence:* [0..1]*Definition:* Additional result of the verification.*Datatype:* "Max500Text" on page 1318**23.4.3.1.5.4.5 AuthenticationToken <AuthntcnTkn>***Presence:* [0..1]*Definition:* Token provided to the ATM for further proof of authentication.*Datatype:* "Max140Binary" on page 1270**23.4.3.1.6 Card <Card>***Presence:* [0..1]*Definition:* Card performing the transaction.**Card <Card>** contains the following **PaymentCard22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		752
	<b>FallbackIndicator</b> <Fllbcklnd>	[0..1]	CodeSet		753
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		753
	<b>PlainCardData</b> <PlainCardData>	[0..1]			753
	<b>PAN</b> <PAN>	[0..1]	Text		754
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		754
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		754
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		754
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		754
	<b>Track1</b> <Trck1>	[0..1]	Text		755
	<b>Track2</b> <Trck2>	[0..1]	Text		755
	<b>Track3</b> <Trck3>	[0..1]	Text		755
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		755
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		755
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		755

**23.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>***Presence:* [1..1]*Definition:* Entry mode used to obtain the card data.*Datatype:* "CardDataReading1Code" on page 1291



CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

#### 23.4.3.1.6.2 FallbackIndicator <FllbckInd>

*Presence:* [0..1]

*Definition:* Indicates the occurrence of a fall-back on the card entry mode.

*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

#### 23.4.3.1.6.3 ProtectedCardData <PrctcdCardData>

*Presence:* [0..1]

*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.

**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 23.4.3.1.6.4 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		754
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		754
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		754
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		754
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		754
	<b>Track1</b> <Trck1>	[0..1]	Text		755
	<b>Track2</b> <Trck2>	[0..1]	Text		755
	<b>Track3</b> <Trck3>	[0..1]	Text		755
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		755

#### 23.4.3.1.6.4.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 23.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 23.4.3.1.6.4.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 23.4.3.1.6.4.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 23.4.3.1.6.4.5 ServiceCode <SvcCd>

*Presence:* [0..1]

*Definition:* Services attached to the card, as defined in ISO 7813.

*Datatype:* "Exact3NumericText" on page 1315

**23.4.3.1.6.4.6 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**23.4.3.1.6.4.7 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**23.4.3.1.6.4.8 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**23.4.3.1.6.4.9 CardholderName <CrhdldrNm>**

*Presence:* [0..1]

*Definition:* Name of the cardholder stored on the card.

*Datatype:* "Max45Text" on page 1318

**23.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

**23.4.3.1.6.6 CardCurrencyCode <CardCcyCd>**

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

**23.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		756
	<b>Service</b> <Svc>	[1..1]			756
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		756
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		756
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		756
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		757

#### 23.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 23.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Service <Svc>** contains the following **ATMService20** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		756
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		756
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		756
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		757

##### 23.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the withdrawal service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 23.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

##### 23.4.3.2.2.3 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of inquiry selected by the customer or the ATM.

Datatype: "ATMServiceType5Code" on page 1285

CodeName	Name	Definition
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.

#### 23.4.3.2.2.4 ServiceVariantIdentification <SvcVarntId>

Presence: [0..\*]

Definition: Identification of the variant of the service.

Datatype: "Max35Text" on page 1317

#### 23.4.3.3 Transaction <Tx>

Presence: [1..1]

Definition: Transaction for which the service is requested.

Transaction <Tx> contains the following **ATMTransaction9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		757
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		757
	<b>CardholderNewPIN</b> <CrhdldrNewPIN>	[0..1]	±		757
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		758

##### 23.4.3.3.1 TransactionIdentification <TxId>

Presence: [1..1]

Definition: Identification of the transaction assigned by the ATM.

**TransactionIdentification** <TxId> contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

##### 23.4.3.3.2 ReconciliationIdentification <RcncltnId>

Presence: [0..1]

Definition: Identification of the reconciliation period assigned by the ATM manager.

Datatype: "Max35Text" on page 1317

##### 23.4.3.3.3 CardholderNewPIN <CrhdldrNewPIN>

Presence: [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderNewPIN <CrddHldrNewPIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 23.4.3.3.4 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### 23.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		758
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		759

#### 23.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).

CodeName	Name	Definition
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 23.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **24      catp.011.001.02**

# **ATMPINManagementResponseV02**

### **24.1    MessageDefinition Functionality**

The ATMPINManagementResponse message is sent by an ATM manager or its agent to the ATM to provide the information and the outcome of the cardholder PIN operation requested in the ATMPINManagementRequest.

#### Outline

The ATMPINManagementResponseV02 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMPINManagementResponse  
Encrypted body of the message.
- C. ATMPINManagementResponse  
Information related to the response of an ATM PIN Management from an ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.



## 24.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMPINMgmtRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			763
	<b>MessageFunction</b> <MsgFctn>	[1..1]			764
	<b>Function</b> <Fctn>	[1..1]	CodeSet		764
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		766
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		766
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		766
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		766
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		766
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		767
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		767
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		767
	<b>Traceability</b> <Tracblt>	[0..*]			767
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		767
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		768
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		768
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		768
	<b>ProtectedATMPINManagementResponse</b> <PrctdATMPINMgmtRspn>	[0..1]	±		768
	<b>ATMPINManagementResponse</b> <ATMPINMgmtRspn>	[0..1]			768
	<b>Environment</b> <Envt>	[1..1]			770
	<b>Acquirer</b> <Acqrr>	[0..1]	±		771
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		772
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		772
	<b>ATM</b> <ATM>	[1..1]	±		772
	<b>Customer</b> <Cstmr>	[1..1]			773
	<b>Profile</b> <Prfl>	[0..1]			774
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		774
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		774
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			774

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		775
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		775
	<b>Result</b> <Rslt>	[0..1]	CodeSet		776
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		776
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		776
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		776
	<b>PlainCardData</b> <PlainCardData>	[0..1]			776
	<b>PAN</b> <PAN>	[0..1]	Text		777
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		777
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		777
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		777
	<b>Track1</b> <Trck1>	[0..1]	Text		777
	<b>Track2</b> <Trck2>	[0..1]	Text		778
	<b>Track3</b> <Trck3>	[0..1]	Text		778
	<b>Context</b> <Cntxt>	[1..1]			778
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		778
	<b>Service</b> <Svc>	[1..1]			778
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		779
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		779
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		779
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		779
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		779
	<b>Transaction</b> <Tx>	[1..1]			779
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		780
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		781
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		781
	<b>TransactionResponse</b> <TxRspn>	[1..1]			781
	<b>Response</b> <Rspn>	[1..1]	CodeSet		781
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		782
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		785
	<b>Action</b> <Actn>	[0..*]			785

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		786
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			786
	<b>Format</b> <Frmt>	[0..1]	CodeSet		787
	<b>Message</b> <Msg>	[0..1]	Text		787
	<b>Reference</b> <Ref>	[0..1]	Text		787
	<b>Device</b> <Dvc>	[0..1]	CodeSet		787
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		788
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		788
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		789
	<b>Command</b> <Cmd>	[0..*]			789
	<b>Type</b> <Tp>	[1..1]	CodeSet		790
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		790
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		791
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		791
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		791
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			791
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		792
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		792

## 24.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 24.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 24.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			764
	<b>Function</b> <Fctn>	[1..1]	CodeSet		764
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		766
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		766
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		766
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		766
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		766
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		767
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		767
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		767
	<b>Traceability</b> <Tracblt>	[0..*]			767
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		767
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		768
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		768
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		768

#### 24.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		764
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		766
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		766

##### 24.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 24.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 24.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 24.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 24.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 24.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

### 24.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

### 24.4.1.6 RecipientParty <RcptPty>

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

### 24.4.1.7 ProcessState <PrcStat>

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

### 24.4.1.8 Traceability <Tracblt>

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		767
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		768
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		768
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		768

#### 24.4.1.8.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

**24.4.1.8.2 SequenceNumber <SeqNb>***Presence:* [0..1]*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.*Datatype:* "Max35Text" on page 1317**24.4.1.8.3 TraceDateTimeln <TracDtTmln>***Presence:* [1..1]*Definition:* Date and time of incoming data exchange for relaying or processing.*Datatype:* "ISODateTime" on page 1312**24.4.1.8.4 TraceDateTimeOut <TracDtTmOut>***Presence:* [1..1]*Definition:* Date and time of the outgoing exchange for relaying or processing.*Datatype:* "ISODateTime" on page 1312**24.4.2 ProtectedATMPINManagementResponse  
<PrtctdATMPINMgmtRspn>***Presence:* [0..1]*Definition:* Encrypted body of the message.**ProtectedATMPINManagementResponse <PrtctdATMPINMgmtRspn>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**24.4.3 ATMPINManagementResponse <ATMPINMgmtRspn>***Presence:* [0..1]*Definition:* Information related to the response of an ATM PIN Management from an ATM manager.



**ATMPINManagementResponse <ATMPINMgmtRspn>** contains the following  
**ATMPINManagementResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envnt>	[1..1]			770
	<b>Acquirer</b> <Acqrr>	[0..1]	±		771
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		772
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		772
	<b>ATM</b> <ATM>	[1..1]	±		772
	<b>Customer</b> <Cstmr>	[1..1]			773
	<b>Profile</b> <Prfl>	[0..1]			774
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		774
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		774
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			774
	<b>Method</b> <Mtd>	[1..1]	CodeSet		775
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		775
	<b>Result</b> <Rslt>	[0..1]	CodeSet		776
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		776
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		776
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		776
	<b>PlainCardData</b> <PlainCardData>	[0..1]			776
	<b>PAN</b> <PAN>	[0..1]	Text		777
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		777
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		777
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		777
	<b>Track1</b> <Trck1>	[0..1]	Text		777
	<b>Track2</b> <Trck2>	[0..1]	Text		778
	<b>Track3</b> <Trck3>	[0..1]	Text		778
	<b>Context</b> <Cntxt>	[1..1]			778
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		778
	<b>Service</b> <Svc>	[1..1]			778
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		779
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		779
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		779

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		779
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		779
	<b>Transaction</b> <Tx>	[1..1]			779
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		780
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		781
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		781
	<b>TransactionResponse</b> <TxRspn>	[1..1]			781
	<b>Response</b> <Rspn>	[1..1]	CodeSet		781
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		782
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		785
	<b>Action</b> <Actn>	[0..*]			785
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		786
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			786
	<b>Format</b> <Frmt>	[0..1]	CodeSet		787
	<b>Message</b> <Msg>	[0..1]	Text		787
	<b>Reference</b> <Ref>	[0..1]	Text		787
	<b>Device</b> <Dvc>	[0..1]	CodeSet		787
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		788
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		788
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		789
	<b>Command</b> <Cmd>	[0..*]			789
	<b>Type</b> <Tp>	[1..1]	CodeSet		790
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		790
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		791
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		791
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		791

#### 24.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the PIN management transaction.

**Environment <Envt>** contains the following **ATMEnvironment12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		771
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		772
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		772
	<b>ATM</b> <ATM>	[1..1]	±		772
	<b>Customer</b> <Cstmr>	[1..1]			773
	<b>Profile</b> <Prfl>	[0..1]			774
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		774
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		774
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			774
	<b>Method</b> <Mtd>	[1..1]	CodeSet		775
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		775
	<b>Result</b> <Rslt>	[0..1]	CodeSet		776
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		776
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		776
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		776
	<b>PlainCardData</b> <PlainCardData>	[0..1]			776
	<b>PAN</b> <PAN>	[0..1]	Text		777
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		777
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		777
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		777
	<b>Track1</b> <Trck1>	[0..1]	Text		777
	<b>Track2</b> <Trck2>	[0..1]	Text		778
	<b>Track3</b> <Trck3>	[0..1]	Text		778

#### 24.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**24.4.3.1.2 ATMManager <ATMMgr>**

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMManager <ATMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

**24.4.3.1.3 HostingEntity <HstgNtty>**

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "[TerminalHosting1](#)" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**24.4.3.1.4 ATM <ATM>**

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine2" on page 1175 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 24.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			774
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		774
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		774
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			774
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		775
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		775
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		776
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		776
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		776

#### 24.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		774
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		774

##### 24.4.3.1.5.1.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

##### 24.4.3.1.5.1.2 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

##### 24.4.3.1.5.2 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		775
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		775
	<b>Result</b> <Rslt>	[0..1]	CodeSet		776
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		776
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		776

#### 24.4.3.1.5.2.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 24.4.3.1.5.2.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).

CodeName	Name	Definition
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 24.4.3.1.5.2.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 24.4.3.1.5.2.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 24.4.3.1.5.2.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 24.4.3.1.6 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Encryption of the sensitive card data.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 24.4.3.1.7 PlainCardData <PlainCardData>

*Presence:* [0..1]



*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		777
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		777
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		777
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		777
	<b>Track1</b> <Trck1>	[0..1]	Text		777
	<b>Track2</b> <Trck2>	[0..1]	Text		778
	<b>Track3</b> <Trck3>	[0..1]	Text		778

#### 24.4.3.1.7.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 24.4.3.1.7.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 24.4.3.1.7.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 24.4.3.1.7.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 24.4.3.1.7.5 Track1 <Trck1>

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**24.4.3.1.7.6 Track2 <Trck2>***Presence:* [0..1]*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.*Datatype:* "Max37Text" on page 1317**24.4.3.1.7.7 Track3 <Trck3>***Presence:* [0..1]*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.*Datatype:* "Max104Text" on page 1315**24.4.3.2 Context <Cntxt>***Presence:* [1..1]*Definition:* Context in which the transaction is performed.**Context <Cntxt>** contains the following **ATMContext17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		778
	<b>Service</b> <Svc>	[1..1]			778
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		779
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		779
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		779
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		779
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		779

**24.4.3.2.1 SessionReference <SsnRef>***Presence:* [0..1]*Definition:* Unique identification of the customer session in which the service is performed.*Datatype:* "Max35Text" on page 1317**24.4.3.2.2 Service <Svc>***Presence:* [1..1]*Definition:* Withdrawal service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService21** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		779
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		779
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		779
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		779
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		779

#### 24.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 24.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 24.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 24.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of withdrawal selected by the customer.

*Datatype:* "ATMServiceType5Code" on page 1285

CodeName	Name	Definition
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.

#### 24.4.3.2.2.5 ServiceVariantIdentification <SvcVarntld>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

### 24.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Response to the PIN management transaction.

**Transaction <Tx>** contains the following **ATMTransaction22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		780
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		781
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		781
	<b>TransactionResponse</b> <TxRspn>	[1..1]			781
	<b>Response</b> <Rspn>	[1..1]	CodeSet		781
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		782
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		785
	<b>Action</b> <Actn>	[0..*]			785
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		786
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			786
	<b>Format</b> <Frmt>	[0..1]	CodeSet		787
	<b>Message</b> <Msg>	[0..1]	Text		787
	<b>Reference</b> <Ref>	[0..1]	Text		787
	<b>Device</b> <Dvc>	[0..1]	CodeSet		787
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		788
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		788
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		789
	<b>Command</b> <Cmd>	[0..*]			789
	<b>Type</b> <Tp>	[1..1]	CodeSet		790
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		790
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		791
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		791
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		791

#### 24.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 24.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* ["Max35Text"](#) on page 1317

#### 24.4.3.3.3 CompletionRequired <CmpltnReqrd>

*Presence:* [0..1]

*Definition:* True if a completion advice has to be sent after the end of the transaction.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 24.4.3.3.4 TransactionResponse <TxRspn>

*Presence:* [1..1]

*Definition:* Result of the PIN service.

**TransactionResponse <TxRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		781
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		782
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		785

##### 24.4.3.3.4.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* ["Response4Code"](#) on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

**24.4.3.3.4.2 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.

CodeName	Name	Definition
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.

CodeName	Name	Definition
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SECO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.



CodeName	Name	Definition
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 24.4.3.3.4.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 24.4.3.3.5 Action <Actn>

*Presence:* [0..\*]

*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.

**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		786
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			786
	<b>Format</b> <Frmt>	[0..1]	CodeSet		787
	<b>Message</b> <Msg>	[0..1]	Text		787
	<b>Reference</b> <Ref>	[0..1]	Text		787
	<b>Device</b> <Dvc>	[0..1]	CodeSet		787
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		788
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		788

#### 24.4.3.3.5.1 ActionType <ActnTp>

*Presence:* [1..1]

*Definition:* Type of action to be performed by the card acceptor.

*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 24.4.3.3.5.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		787
	<b>Message</b> <Msg>	[0..1]	Text		787
	<b>Reference</b> <Ref>	[0..1]	Text		787
	<b>Device</b> <Dvc>	[0..1]	CodeSet		787
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		788

#### 24.4.3.3.5.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 24.4.3.3.5.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

#### 24.4.3.3.5.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

#### 24.4.3.3.5.2.4 Device <Dvc>

*Presence:* [0..1]

*Definition:* Device to be used.

*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.

CodeName	Name	Definition
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 24.4.3.3.5.2.5 MessageContentSignature <MsgCnttSgntr>

*Presence:* [0..1]

*Definition:* Electronic signature of the message to display or print.

*Datatype:* "Max35Binary" on page 1270

#### 24.4.3.3.5.3 RequestToPerform <ReqToPrfrm>

*Presence:* [0..1]

*Definition:* Message to send before the completion of the transaction.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CPMD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMIquiryRequest	Request for an inquiry.
INQP	ATMIquiryResponse	Response to an inquiry request.
KYAP	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.

CodeName	Name	Definition
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 24.4.3.3.6 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 24.4.3.3.7 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		790
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		790
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		791
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		791
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		791

#### 24.4.3.3.7.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 24.4.3.3.7.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

**24.4.3.3.7.3 DateTime <DtTm>***Presence:* [0..1]*Definition:* Date time on which the command must be performed.*Datatype:* "ISODateTime" on page 1312**24.4.3.3.7.4 CommandIdentification <CmdId>***Presence:* [0..1]*Definition:* Identification of the entity issuing the command.**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

**24.4.3.3.7.5 CommandParameters <CmdParams>***Presence:* [0..1]*Definition:* Specific parameters attached to the command.**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

**24.4.4 SecurityTrailer <SctyTrlr>***Presence:* [0..1]*Definition:* Trailer of the message containing a MAC.**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		792
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		792

#### 24.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 24.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233



## **25      catp.012.001.01          ATMDepositRequestV01**

### **25.1    MessageDefinition Functionality**

The ATMDepositRequest message is sent by an ATM to an acquirer or its agent to request the approval of a deposit transaction at an ATM, before or after deposit media inside the ATM.

#### Outline

The ATMDepositRequestV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDepositRequest  
Encrypted body of the message.
- C. ATMDepositRequest  
Information related to the request of a deposit transaction from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 25.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDpstReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			799
	<b>MessageFunction</b> <MsgFctn>	[1..1]			800
	<b>Function</b> <Fctn>	[1..1]	CodeSet		800
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		802
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		802
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		802
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		802
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		802
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		802
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		803
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		803
	<b>Traceability</b> <Tracblt>	[0..*]			803
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		803
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		803
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		804
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		804
	<b>ProtectedATMDepositRequest</b> <PrctdATMDpstReq>	[0..1]	±		804
	<b>ATMDepositRequest</b> <ATMDpstReq>	[0..1]			804
	<b>Environment</b> <Envt>	[1..1]			809
	<b>Acquirer</b> <Acqrr>	[0..1]	±		812
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		813
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		813
	<b>ATM</b> <ATM>	[1..1]			813
	<b>Identification</b> <Id>	[1..1]	Text		815
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		815
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		815
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	815
	<b>Location</b> <Lctn>	[0..1]			816
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		816

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StreetName</b> <StrtNm>	[0..1]	Text		817
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		817
	<b>PostCode</b> <PstCd>	[0..1]	Text		817
	<b>TownName</b> <TwnNm>	[1..1]	Text		817
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		817
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	817
	<b>GeoLocation</b> <GLctn>	[0..1]			817
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		819
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		819
	<b>Capabilities</b> <Cpblties>	[0..1]			819
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		820
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		820
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		821
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		821
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		821
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		821
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		822
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		822
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		822
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			822
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	824

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Equipment</b> <Eqpmnt>	[0..1]			824
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		824
	<b>Model</b> <Mdl>	[0..1]	Text		824
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		824
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		825
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		825
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		825
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		825
	<b>ConfigurationParameter</b> <CfgrParam>	[0..*]			825
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826
	<b>Customer</b> <Cstmr>	[1..1]			826
	<b>Profile</b> <Prfl>	[0..1]			827
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		827
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		828
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		828
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	828
	<b>Authentication</b> <Authntcn>	[1..*]			828
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		829
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		829
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		829
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		829
	<b>CardholderOnLinePIN</b> <CrhldrOnLinePIN>	[0..1]	±		830
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			830
	<b>Method</b> <Mtd>	[1..1]	CodeSet		830
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		831
	<b>Result</b> <Rslt>	[0..1]	CodeSet		831
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		832
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		832
	<b>Card</b> <Card>	[0..1]			832
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		832

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		833
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		833
	<b>PlainCardData</b> <PlainCardData>	[0..1]			833
	<b>PAN</b> <PAN>	[0..1]	Text		834
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		834
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		834
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		834
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		834
	<b>Track1</b> <Trck1>	[0..1]	Text		835
	<b>Track2</b> <Trck2>	[0..1]	Text		835
	<b>Track3</b> <Trck3>	[0..1]	Text		835
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		835
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		835
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		835
	<b>Context</b> <Cntxt>	[1..1]			835
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		836
	<b>Service</b> <Svc>	[0..1]			836
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		836
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		836
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		837
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		837
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		837
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		837
	<b>Transaction</b> <Tx>	[1..1]			837
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		839
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		839
	<b>AccountData</b> <AcctData>	[0..1]			839
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		840
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		840
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		841
	<b>AccountName</b> <AcctNm>	[0..1]	Text		841

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			842
	<b>Name</b> <Nm>	[1..1]	Text		842
	<b>Address</b> <Adr>	[1..1]	±		842
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	842
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			843
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	843
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		843
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		844
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			844
	<b>Identification</b> <Id>	[1..1]	Text		844
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		844
	<b>Servicer</b> <Svcr>	[0..1]			844
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	844
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		845
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		845
	<b>TotalAmount</b> <TtlAmt>	[0..1]	±		845
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			846
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		846
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		846
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	846
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		847
	<b>Fees</b> <Fees>	[0..*]	±		847
	<b>Donation</b> <Dontn>	[0..*]	±		847
	<b>DepositedMedia</b> <DpstMdia>	[0..*]			847
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		848
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		848
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		848
	<b>MediaItems</b> <Mdialtms>	[1..*]			849
	<b>Count</b> <Cnt>	[0..1]	Quantity		849
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		849
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	849

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		850
	<b>CodeLine</b> <CdLine>	[0..1]	Text		850
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		850
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		850
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		850
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		851
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			851
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		851
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		851

## 25.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 ValidationByTable

Must be a valid terrestrial language.

## 25.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 25.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			800
	<b>Function</b> <Fctn>	[1..1]	CodeSet		800
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		802
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		802
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		802
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		802
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		802
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		802
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		803
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		803
	<b>Traceability</b> <Tracblt>	[0..*]			803
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		803
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		803
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		804
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		804

#### 25.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		800
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		802
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		802

##### 25.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.



CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 25.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 25.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 25.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 25.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 25.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 25.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: "Max35Text" on page 1317

#### 25.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: "Max35Text" on page 1317

#### 25.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: "Max35Text" on page 1317

#### 25.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	SequenceNumber <SeqNb>	[0..1]	Text		803
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

##### 25.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 25.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### **25.4.1.8.3 TraceDateTimeln <TracDtTmln>**

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### **25.4.1.8.4 TraceDateTimeOut <TracDtTmOut>**

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### **25.4.2 ProtectedATMDepositRequest <PrtctdATMDpstReq>**

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDepositRequest <PrtctdATMDpstReq>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### **25.4.3 ATMDepositRequest <ATMDpstReq>**

*Presence:* [0..1]

*Definition:* Information related to the request of a deposit transaction from an ATM.

**ATMDepositRequest <ATMDpstReq>** contains the following **ATMDepositRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			809
	<b>Acquirer</b> <Acqrr>	[0..1]	±		812
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		813
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		813
	<b>ATM</b> <ATM>	[1..1]			813
	<b>Identification</b> <Id>	[1..1]	Text		815
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		815
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		815
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	815
	<b>Location</b> <Lctn>	[0..1]			816
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		816
	<b>StreetName</b> <StrtNm>	[0..1]	Text		817
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		817
	<b>PostCode</b> <PstCd>	[0..1]	Text		817
	<b>TownName</b> <TwnNm>	[1..1]	Text		817
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		817
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	817
	<b>GeoLocation</b> <GLctn>	[0..1]			817
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		819
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		819
	<b>Capabilities</b> <Cpblties>	[0..1]			819
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		820
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		820
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		821
	<b>PINLengthCapabilities</b> <PINLngthCpblties>	[0..1]	Quantity		821

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ApprovalCodeLength</b> <ApprvlCdLngth>	[0..1]	Quantity		821
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		821
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		822
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		822
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		822
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			822
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	824
	<b>Equipment</b> <Eqpmnt>	[0..1]			824
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		824
	<b>Model</b> <Mdl>	[0..1]	Text		824
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		824
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		825
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		825
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		825
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		825
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			825
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826
	<b>Customer</b> <Cstmr>	[1..1]			826
	<b>Profile</b> <Prfl>	[0..1]			827
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		827
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		828
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		828
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	828
	<b>Authentication</b> <Authntcn>	[1..*]			828
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		829
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		829

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		829
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		829
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		830
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			830
	<b>Method</b> <Mtd>	[1..1]	CodeSet		830
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		831
	<b>Result</b> <Rslt>	[0..1]	CodeSet		831
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		832
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		832
	<b>Card</b> <Card>	[0..1]			832
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		832
	<b>FallbackIndicator</b> <Flbcklnd>	[0..1]	CodeSet		833
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		833
	<b>PlainCardData</b> <PlainCardData>	[0..1]			833
	<b>PAN</b> <PAN>	[0..1]	Text		834
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		834
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		834
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		834
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		834
	<b>Track1</b> <Trck1>	[0..1]	Text		835
	<b>Track2</b> <Trck2>	[0..1]	Text		835
	<b>Track3</b> <Trck3>	[0..1]	Text		835
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		835
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		835
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		835
	<b>Context</b> <Cntxt>	[1..1]			835
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		836
	<b>Service</b> <Svc>	[0..1]			836
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		836
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		836
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		837

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		837
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		837
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		837
	<b>Transaction</b> <Tx>	[1..1]			837
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		839
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		839
	<b>AccountData</b> <AcctData>	[0..1]			839
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		840
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		840
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		841
	<b>AccountName</b> <AcctNm>	[0..1]	Text		841
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			842
	<b>Name</b> <Nm>	[1..1]	Text		842
	<b>Address</b> <Adr>	[1..1]	±		842
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	842
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			843
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	843
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		843
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		844
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			844
	<b>Identification</b> <ld>	[1..1]	Text		844
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		844
	<b>Servicer</b> <Svcr>	[0..1]			844
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	844
Or}	<b>ProprietaryIdentification</b> <Prtryld>	[1..1]	±		845
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		845
	<b>TotalAmount</b> <TtlAmt>	[0..1]	±		845
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			846
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		846
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		846
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	846



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		847
	<b>Fees</b> <Fees>	[0..*]	±		847
	<b>Donation</b> <Dontn>	[0..*]	±		847
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]			847
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		848
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		848
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		848
	<b>MediaItems</b> <Mdialtms>	[1..*]			849
	<b>Count</b> <Cnt>	[0..1]	Quantity		849
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		849
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	849
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		850
	<b>CodeLine</b> <CdLine>	[0..1]	Text		850
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		850
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		850
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		850
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		851

### 25.4.3.1 Environment <Env>

*Presence:* [1..1]

*Definition:* Environment in which the transaction is performed.

**Environment <Envt>** contains the following **ATMEnvironment11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		812
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		813
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		813
	<b>ATM</b> <ATM>	[1..1]			813
	<b>Identification</b> <Id>	[1..1]	Text		815
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		815
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		815
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	815
	<b>Location</b> <Lctn>	[0..1]			816
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		816
	<b>StreetName</b> <StrtNm>	[0..1]	Text		817
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		817
	<b>PostCode</b> <PstCd>	[0..1]	Text		817
	<b>TownName</b> <TwnNm>	[1..1]	Text		817
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		817
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	817
	<b>GeoLocation</b> <GLctn>	[0..1]			817
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		819
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		819
	<b>Capabilities</b> <Cpblties>	[0..1]			819
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		820
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		820
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		821
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		821
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		821

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		821
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		822
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		822
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		822
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			822
	<b>Destination</b> <Dstr>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlbfFmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	824
	<b>Equipment</b> <Eqpmnt>	[0..1]			824
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		824
	<b>Model</b> <Mdl>	[0..1]	Text		824
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		824
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		825
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		825
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		825
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		825
	<b>ConfigurationParameter</b> <CfgrnParam>	[0..*]			825
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826
	<b>Customer</b> <Cstmr>	[1..1]			826
	<b>Profile</b> <Prfl>	[0..1]			827
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		827
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		828
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		828
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	828
	<b>Authentication</b> <Authntcn>	[1..*]			828
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		829
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		829
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		829

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		829
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		830
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			830
	<b>Method</b> <Mtd>	[1..1]	CodeSet		830
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		831
	<b>Result</b> <Rslt>	[0..1]	CodeSet		831
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		832
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		832
	<b>Card</b> <Card>	[0..1]			832
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		832
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		833
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		833
	<b>PlainCardData</b> <PlainCardData>	[0..1]			833
	<b>PAN</b> <PAN>	[0..1]	Text		834
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		834
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		834
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		834
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		834
	<b>Track1</b> <Trck1>	[0..1]	Text		835
	<b>Track2</b> <Trck2>	[0..1]	Text		835
	<b>Track3</b> <Trck3>	[0..1]	Text		835
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		835
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		835
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		835

#### 25.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstr>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**25.4.3.1.2 ATMMgrIdentification <ATMMgrId>***Presence:* [0..1]*Definition:* Identification of the ATM manager.*Datatype:* "Max35Text" on page 1317**25.4.3.1.3 HostingEntity <HstgNtty>***Presence:* [0..1]*Definition:* Entity hosting the ATM terminal.**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**25.4.3.1.4 ATM <ATM>***Presence:* [1..1]*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		815
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		815
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		815
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	815
	<b>Location</b> <Lctn>	[0..1]			816
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		816
	<b>StreetName</b> <StrtNm>	[0..1]	Text		817
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		817
	<b>PostCode</b> <PstCd>	[0..1]	Text		817
	<b>TownName</b> <TwnNm>	[1..1]	Text		817
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		817
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	817
	<b>GeoLocation</b> <GLctn>	[0..1]			817
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		819
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		819
	<b>Capabilities</b> <Cpbilities>	[0..1]			819
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		820
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		820
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		821
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		821
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		821
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		821
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		822
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		822
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		822

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			822
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	824
	<b>Equipment</b> <Eqpmnt>	[0..1]			824
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		824
	<b>Model</b> <Mdl>	[0..1]	Text		824
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		824
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		825
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		825
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		825
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		825
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			825
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826

#### 25.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 25.4.3.1.4.5 Location <Lctn>

Presence: [0..1]

Definition: Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		816
	<b>StreetName</b> <StrtNm>	[0..1]	Text		817
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		817
	<b>PostCode</b> <PstCd>	[0..1]	Text		817
	<b>TownName</b> <TwnNm>	[1..1]	Text		817
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		817
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	817
	<b>GeoLocation</b> <GLctn>	[0..1]			817
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		819

#### 25.4.3.1.4.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 1318



**25.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**25.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**25.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**25.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**25.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**25.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**25.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			818
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			818
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		819

#### 25.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		818
	<b>Longitude</b> <Long>	[1..1]	Text		818

##### 25.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 25.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 25.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		819
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		819
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		819

#### 25.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 25.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 25.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 25.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 25.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		820
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		820
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		821
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		821
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		821
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		821
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		822
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		822
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		822
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			822
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	824

#### 25.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 25.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 25.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 25.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 25.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 25.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**25.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**25.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**25.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**25.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		823
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		823
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		823
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		823
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	824

#### 25.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 25.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 25.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 25.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**25.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**25.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		824
	<b>Model</b> <Mdl>	[0..1]	Text		824
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		824
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		825
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		825
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		825
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		825
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			825
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826

**25.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**25.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**25.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]



*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		825
	<b>Version</b> <Vrsn>	[1..1]	Text		826

##### 25.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

**25.4.3.1.4.8.8.2 Version <Vrsn>**

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

**25.4.3.1.5 Customer <Cstmr>**

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			827
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		827
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		828
	<b>CustomerIdentification &lt;Cstmrlid&gt;</b>	[0..1]	Text		828
	<b>SelectedLanguage &lt;SelctdLang&gt;</b>	[0..1]	CodeSet	C5	828
	<b>Authentication &lt;Authntcn&gt;</b>	[1..*]			828
	<b>AuthenticationMethod &lt;AuthntcnMtd&gt;</b>	[1..1]	CodeSet		829
	<b>TokenRequested &lt;TknReqd&gt;</b>	[0..1]	Indicator		829
	<b>AuthenticationValue &lt;AuthntcnVal&gt;</b>	[0..1]	Binary		829
	<b>ProtectedAuthenticationValue &lt;PrtctdAuthntcnVal&gt;</b>	[0..1]	±		829
	<b>CardholderOnLinePIN &lt;CrdhldrOnLinePIN&gt;</b>	[0..1]	±		830
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			830
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		830
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		831
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		831
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		832
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		832

#### 25.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode &lt;RtrvIMd&gt;</b>	[1..1]	CodeSet		827
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		828
	<b>CustomerIdentification &lt;Cstmrlid&gt;</b>	[0..1]	Text		828

##### 25.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 25.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.5.1.3 CustomerIdentification <CstmrId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

#### Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

#### 25.4.3.1.5.3 Authentication <Authntcn>

*Presence:* [1..\*]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer and its card.

**Authentication <Authntcn>** contains the following **CardholderAuthentication8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		829
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		829
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		829
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		829
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		830

**25.4.3.1.5.3.1 AuthenticationMethod <AuthntcnMtd>**

*Presence:* [1..1]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer or its card.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**25.4.3.1.5.3.2 TokenRequested <TknReqd>**

*Presence:* [0..1]

*Definition:* True if an authentication token is requested to the host. This token will be provided to the ATM for further authentication.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**25.4.3.1.5.3.3 AuthenticationValue <AuthntcnVal>**

*Presence:* [0..1]

*Definition:* Value or token to be used for customer or card authentication.

*Datatype:* "Max5000Binary" on page 1271

**25.4.3.1.5.3.4 ProtectedAuthenticationValue <PrtctdAuthntcnVal>**

*Presence:* [0..1]

*Definition:* Protection of the authentication value.

**ProtectedAuthenticationValue <PrctcdAuthntcnVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 25.4.3.1.5.3.5 CardholderOnLinePIN <CrhdldrOnLinePIN>

*Presence:* [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderOnLinePIN <CrhdldrOnLinePIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 25.4.3.1.5.4 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		830
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		831
	<b>Result</b> <Rslt>	[0..1]	CodeSet		831
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		832
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		832

##### 25.4.3.1.5.4.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.

CodeName	Name	Definition
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 25.4.3.1.5.4.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 25.4.3.1.5.4.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

**25.4.3.1.5.4.4 AdditionalResult <AddtlRslt>***Presence:* [0..1]*Definition:* Additional result of the verification.*Datatype:* "Max500Text" on page 1318**25.4.3.1.5.4.5 AuthenticationToken <AuthntcnTkn>***Presence:* [0..1]*Definition:* Token provided to the ATM for further proof of authentication.*Datatype:* "Max140Binary" on page 1270**25.4.3.1.6 Card <Card>***Presence:* [0..1]*Definition:* Card performing the transaction.**Card <Card>** contains the following **PaymentCard22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		832
	<b>FallbackIndicator</b> <Fllbcklnd>	[0..1]	CodeSet		833
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		833
	<b>PlainCardData</b> <PlainCardData>	[0..1]			833
	<b>PAN</b> <PAN>	[0..1]	Text		834
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		834
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		834
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		834
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		834
	<b>Track1</b> <Trck1>	[0..1]	Text		835
	<b>Track2</b> <Trck2>	[0..1]	Text		835
	<b>Track3</b> <Trck3>	[0..1]	Text		835
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		835
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		835
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		835

**25.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>***Presence:* [1..1]*Definition:* Entry mode used to obtain the card data.*Datatype:* "CardDataReading1Code" on page 1291



CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

#### 25.4.3.1.6.2 FallbackIndicator <FllbckInd>

*Presence:* [0..1]

*Definition:* Indicates the occurrence of a fall-back on the card entry mode.

*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

#### 25.4.3.1.6.3 ProtectedCardData <PrctcdCardData>

*Presence:* [0..1]

*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.

**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 25.4.3.1.6.4 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		834
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		834
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		834
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		834
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		834
	<b>Track1</b> <Trck1>	[0..1]	Text		835
	<b>Track2</b> <Trck2>	[0..1]	Text		835
	<b>Track3</b> <Trck3>	[0..1]	Text		835
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		835

#### 25.4.3.1.6.4.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 25.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 25.4.3.1.6.4.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 25.4.3.1.6.4.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 25.4.3.1.6.4.5 ServiceCode <SvcCd>

*Presence:* [0..1]

*Definition:* Services attached to the card, as defined in ISO 7813.

*Datatype:* "Exact3NumericText" on page 1315

**25.4.3.1.6.4.6 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**25.4.3.1.6.4.7 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**25.4.3.1.6.4.8 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**25.4.3.1.6.4.9 CardholderName <CrhdldrNm>**

*Presence:* [0..1]

*Definition:* Name of the cardholder stored on the card.

*Datatype:* "Max45Text" on page 1318

**25.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

**25.4.3.1.6.6 CardCurrencyCode <CardCcyCd>**

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

**25.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the deposit transaction is performed.

**Context <Cntxt>** contains the following **ATMContext10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		836
	<b>Service</b> <Svc>	[0..1]			836
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		836
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		836
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		837
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		837
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		837
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		837

#### 25.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.2.2 Service <Svc>

*Presence:* [0..1]

*Definition:* Deposit service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		836
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		836
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		837
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		837
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		837
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		837

##### 25.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the deposit service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

##### 25.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.2.2.3 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of deposit service selected by the customer.

*Datatype:* "ATMServiceType6Code" on page 1286

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### 25.4.3.2.2.4 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 25.4.3.2.2.5 CashBack <CshBck>

*Presence:* [0..1]

*Definition:* True if deposit with cash back transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 25.4.3.2.2.6 MultiAccount <MultiAcct>

*Presence:* [0..1]

*Definition:* True if the deposit transaction is split in multiple accounts.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 25.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Deposit transaction for which the service is requested.

**Transaction <Tx>** contains the following **ATMTransaction15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		839
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		839
	<b>AccountData</b> <AcctData>	[0..1]			839
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		840
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		840
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		841
	<b>AccountName</b> <AcctNm>	[0..1]	Text		841
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			842
	<b>Name</b> <Nm>	[1..1]	Text		842
	<b>Address</b> <Adr>	[1..1]	±		842
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	842
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			843
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	843
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		843
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		844
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			844
	<b>Identification</b> <Id>	[1..1]	Text		844
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		844
	<b>Servicer</b> <Svcr>	[0..1]			844
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	844
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		845
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		845
	<b>TotalAmount</b> <TtlAmt>	[0..1]	±		845
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			846
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		846
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		846
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	846
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		847
	<b>Fees</b> <Fees>	[0..*]	±		847
	<b>Donation</b> <Dontn>	[0..*]	±		847
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]			847

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		848
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		848
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		848
	<b>MediaItems</b> <MdiaItms>	[1..*]			849
	<b>Count</b> <Cnt>	[0..1]	Quantity		849
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		849
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	849
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		850
	<b>CodeLine</b> <CdLine>	[0..1]	Text		850
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		850
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		850
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		850
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		851

#### 25.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "[TransactionIdentifier1](#)" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 25.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "[Max35Text](#)" on page 1317

#### 25.4.3.3.3 AccountData <AcctData>

*Presence:* [0..1]

*Definition:* Unprotected account information.

**AccountData <AcctData>** contains the following **CardAccount9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		840
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		840
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		841
	<b>AccountName</b> <AcctNm>	[0..1]	Text		841
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			842
	<b>Name</b> <Nm>	[1..1]	Text		842
	<b>Address</b> <Adr>	[1..1]	±		842
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	842
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			843
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	843
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		843
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		844
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			844
	<b>Identification</b> <Id>	[1..1]	Text		844
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		844
	<b>Servicer</b> <Svcr>	[0..1]			844
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	844
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		845

#### 25.4.3.3.3.1 AccountSequenceNumber <AcctSeqNb>

*Presence:* [0..1]

*Definition:* Sequence number of the account data for multi-account deposit.

*Datatype:* "Number" on page 1314

#### 25.4.3.3.3.2 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.



CodeName	Name	Definition
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 25.4.3.3.3 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 25.4.3.3.4 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 25.4.3.3.3.5 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		842
	<b>Address</b> <Adr>	[1..1]	±		842

##### 25.4.3.3.3.5.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

##### 25.4.3.3.3.5.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

##### 25.4.3.3.3.6 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 25.4.3.3.3.7 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	843
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		843
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		844
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			844
	<b>Identification</b> <Id>	[1..1]	Text		844

#### 25.4.3.3.3.7.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

#### 25.4.3.3.3.7.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**25.4.3.3.3.7.3 UPIC <UPIC>**

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPIIdentifier" on page 1313

**25.4.3.3.3.7.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		844

**25.4.3.3.3.7.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**25.4.3.3.3.8 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**25.4.3.3.3.9 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	844
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		845

**25.4.3.3.3.9.1 AnyBIC <AnyBIC>**

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 25.4.3.3.9.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 25.4.3.3.4 ProtectedAccountData <PrctcdAcctData>

*Presence:* [0..1]

*Definition:* Encryption of account information.

**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 25.4.3.3.5 TotalAmount <TtlAmt>

*Presence:* [0..1]

*Definition:* Total amount of the deposit transaction.

**TotalAmount <TtlAmt>** contains the following elements (see ["AmountAndCurrency1"](#) on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

#### 25.4.3.3.6 DetailedRequestedAmount <DtldReqdAmt>

*Presence:* [0..\*]

*Definition:* Amounts of the deposit transaction.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following **DetailedAmount16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		846
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		846
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	846
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		847
	<b>Fees</b> <Fees>	[0..*]	±		847
	<b>Donation</b> <Dontn>	[0..*]	±		847

##### 25.4.3.3.6.1 AccountSequenceNumber <AcctSeqNb>

*Presence:* [0..1]

*Definition:* Link to the account for multi-account deposit.

*Datatype:* ["Number"](#) on page 1314

##### 25.4.3.3.6.2 AmountToDeposit <AmtToDpst>

*Presence:* [0..1]

*Definition:* Amount of the deposit to be made on the ATM after the approval of the deposit transaction.

*Datatype:* ["ImpliedCurrencyAndAmount"](#) on page 1269

##### 25.4.3.3.6.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount to deposit when different from the base currency of the ATM.

*Impacted by:* C1 ["ActiveCurrency"](#)

*Datatype:* ["ActiveCurrencyCode"](#) on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 25.4.3.3.6.4 CashBackAmount <CshBckAmt>

*Presence:* [0..1]

*Definition:* Cashback amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 25.4.3.3.6.5 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Deposit fees, accepted by the customer.

**Fees <Fees>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 25.4.3.3.6.6 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.

**Donation <Dontn>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 25.4.3.3.7 DepositedMedia <DpstdMdia>

*Presence:* [0..\*]

*Definition:* Deposited media put in the safe.

**DepositedMedia <DpstdMdia>** contains the following **ATMDepositedMedia1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		848
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		848
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		848
	<b>MediaItems</b> <Mdialtms>	[1..*]			849
	<b>Count</b> <Cnt>	[0..1]	Quantity		849
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		849
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	849
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		850
	<b>CodeLine</b> <CdLine>	[0..1]	Text		850
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		850
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		850

#### 25.4.3.3.7.1 AccountSequenceNumber <AcctSeqNb>

*Presence:* [0..1]

*Definition:* Link to the account for multi-account deposit.

*Datatype:* "Number" on page 1314

#### 25.4.3.3.7.2 MediaType <MdiaTp>

*Presence:* [1..1]

*Definition:* Type of deposited media.

*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

#### 25.4.3.3.7.3 MediaCategory <MdiaCtgy>

*Presence:* [0..1]

*Definition:* Category of deposited media items.



Datatype: "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### 25.4.3.3.7.4 Medialtems <Mdialtms>

Presence: [1..\*]

Definition: Media item that are deposited.

Medialtems <Mdialtms> contains the following ATMDepositedMedia2 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Count</b> <Cnt>	[0..1]	Quantity		849
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		849
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	849
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		850
	<b>CodeLine</b> <CdLine>	[0..1]	Text		850
	<b>ScannedValue</b> <ScrndVal>	[0..1]	Amount		850
	<b>ConfidenceLevel</b> <CnfdhcLvl>	[0..1]	Rate		850

##### 25.4.3.3.7.4.1 Count <Cnt>

Presence: [0..1]

Definition: Number of deposit media.

Datatype: "Number" on page 1314

##### 25.4.3.3.7.4.2 UnitValue <UnitVal>

Presence: [0..1]

Definition: Amount or denomination of one media item, if the media type is valued or entered by the customer.

Datatype: "ImpliedCurrencyAndAmount" on page 1269

##### 25.4.3.3.7.4.3 Currency <Ccy>

Presence: [0..1]

Definition: Currency of media items, if valued and different from base currency.

Impacted by: C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 25.4.3.3.7.4.4 CodeLineFormat <CdLineFrmt>

*Presence:* [0..1]

*Definition:* Format of the check code line.

*Datatype:* "CheckCodeLine1Code" on page 1293

CodeName	Name	Definition
CMC7	CMC7	Magnetic ink character digitally encoded with 7 sticks.
E13B	E13B	Magnetic ink character recognition.,conform to ISO 1004.
OCRA	OCRA	Optical character recognition font A, conform to ANSI X3.17:1981.
OCRB	OCRB	Optical character recognition font B, conform to ANSI X3.49:1975.
OCRF	OCRDefault	Default optical character recognition used.

#### 25.4.3.3.7.4.5 CodeLine <CdLine>

*Presence:* [0..1]

*Definition:* Check code line.

*Datatype:* "Max70Text" on page 1318

#### 25.4.3.3.7.4.6 ScannedValue <ScndVal>

*Presence:* [0..1]

*Definition:* Check amount scanned by the check reader.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 25.4.3.3.7.4.7 ConfidenceLevel <CnfdncLvl>

*Presence:* [0..1]

*Definition:* Percentage of the confidence in the check amount.

*Datatype:* "Percentage" on page 1315

#### 25.4.3.3.8 RequestedReceipt <ReqdRct>

*Presence:* [0..1]

*Definition:* True if a receipt has be requested by the customer.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 25.4.3.3.9 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### 25.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		851
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		851

#### 25.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 25.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **26      catp.013.001.01          ATMDepositResponseV01**

### **26.1    MessageDefinition Functionality**

The ATMDepositResponse message is sent by an ATM manager or its agent to inform the ATM of the approval or decline of the deposit transaction.

#### Outline

The ATMDepositResponseV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDepositResponse  
Encrypted body of the message.
- C. ATMDepositResponse  
Response to a deposit request.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 26.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDpstRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			859
	<b>MessageFunction</b> <MsgFctn>	[1..1]			859
	<b>Function</b> <Fctn>	[1..1]	CodeSet		860
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		861
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		861
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		861
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		862
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		862
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		862
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		862
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		862
	<b>Traceability</b> <Tracblt>	[0..*]			862
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		862
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		863
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		863
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		863
	<b>ProtectedATMDepositResponse</b> <PrctcdATMDpstRspn>	[0..1]	±		863
	<b>ATMDepositResponse</b> <ATMDpstRspn>	[0..1]			863
	<b>Environment</b> <Envt>	[1..1]			867
	<b>Acquirer</b> <Acqrr>	[0..1]	±		868
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		869
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		869
	<b>ATM</b> <ATM>	[1..1]	±		869
	<b>Customer</b> <Cstmr>	[1..1]			870
	<b>Profile</b> <Prfl>	[0..1]			871
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		871
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		871
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			871
	<b>Method</b> <Mtd>	[1..1]	CodeSet		872

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		872
	<b>Result</b> <RsIt>	[0..1]	CodeSet		873
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		873
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		873
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		873
	<b>PlainCardData</b> <PlainCardData>	[0..1]			873
	<b>PAN</b> <PAN>	[0..1]	Text		874
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		874
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		874
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		874
	<b>Track1</b> <Trck1>	[0..1]	Text		874
	<b>Track2</b> <Trck2>	[0..1]	Text		875
	<b>Track3</b> <Trck3>	[0..1]	Text		875
	<b>Context</b> <Cntxt>	[1..1]			875
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		875
	<b>Service</b> <Svc>	[0..1]			875
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		876
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		876
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		876
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		876
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		876
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		877
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		877
	<b>Transaction</b> <Tx>	[1..1]			877
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		880
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		880
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		881
	<b>AccountData</b> <AcctData>	[0..1]			881
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		883
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		883
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		883

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountName</b> <AcctNm>	[0..1]	Text		884
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			884
	<b>Name</b> <Nm>	[1..1]	Text		885
	<b>Address</b> <Adr>	[1..1]	±		885
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	885
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			886
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	886
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		886
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		886
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			887
	<b>Identification</b> <Id>	[1..1]	Text		887
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		887
	<b>Servicer</b> <Svcr>	[0..1]			887
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	887
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		888
	<b>Balance</b> <Bal>	[0..1]			888
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	888
	<b>Sign</b> <Sgn>	[0..1]	Indicator		888
	<b>Date</b> <Dt>	[0..1]	Date		889
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		889
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		889
	<b>Limits</b> <Lmts>	[0..1]			889
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	890
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		890
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		890
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			891
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Lbl>	[0..1]	Text		891
	<b>DepositLimits</b> <DpstLmts>	[0..*]			892



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		893
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		893
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		894
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			894
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		894
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		894
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	894
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		895
	<b>Fees</b> <Fees>	[0..*]	±		895
	<b>Donation</b> <Dontn>	[0..*]	±		895
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		895
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			896
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		896
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			897
	<b>Response</b> <Rspn>	[1..1]	CodeSet		897
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		897
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		901
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			901
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		901
	<b>Codification</b> <Cdfctn>	[0..1]	Text		902
	<b>Response</b> <Rspn>	[1..1]	Text		902
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		902
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		902
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		902
	<b>Action</b> <Actn>	[0..*]			902
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		903

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			903
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		904
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		906
	<b>Command</b> <Cmd>	[0..*]			906
	<b>Type</b> <Tp>	[1..1]	CodeSet		906
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		907
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		907
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		907
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		908
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			908
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		908
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		909

## 26.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**C5 ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 26.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 26.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			859
	<b>Function</b> <Fctn>	[1..1]	CodeSet		860
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		861
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		861
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		861
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		862
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		862
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		862
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		862
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		862
	<b>Traceability</b> <Tracblt>	[0..*]			862
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		862
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		863
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		863
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		863

#### 26.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		860
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		861
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		861

#### 26.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.

CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 26.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 26.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 26.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**26.4.1.3 ExchangeIdentification <XchgId>***Presence:* [1..1]*Definition:* Unique identification of an exchange occurrence.*Datatype:* "Max3NumericText" on page 1317**26.4.1.4 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**26.4.1.5 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**26.4.1.6 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**26.4.1.7 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**26.4.1.8 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		862
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		863
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		863
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		863

**26.4.1.8.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "GenericIdentification77" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 26.4.1.8.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 26.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 26.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 26.4.2 ProtectedATMDepositResponse <PrtctdATMDpstRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDepositResponse <PrtctdATMDpstRspn>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 26.4.3 ATMDepositResponse <ATMDpstRspn>

*Presence:* [0..1]

*Definition:* Response to a deposit request.

**ATMDepositResponse** <ATMDpstRspn> contains the following **ATMDepositResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			867
	<b>Acquirer</b> <Acqrr>	[0..1]	±		868
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		869
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		869
	<b>ATM</b> <ATM>	[1..1]	±		869
	<b>Customer</b> <Cstmr>	[1..1]			870
	<b>Profile</b> <Prfl>	[0..1]			871
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		871
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		871
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			871
	<b>Method</b> <Mtd>	[1..1]	CodeSet		872
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		872
	<b>Result</b> <Rslt>	[0..1]	CodeSet		873
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		873
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		873
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		873
	<b>PlainCardData</b> <PlainCardData>	[0..1]			873
	<b>PAN</b> <PAN>	[0..1]	Text		874
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		874
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		874
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		874
	<b>Track1</b> <Trck1>	[0..1]	Text		874
	<b>Track2</b> <Trck2>	[0..1]	Text		875
	<b>Track3</b> <Trck3>	[0..1]	Text		875
	<b>Context</b> <Cntxt>	[1..1]			875
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		875
	<b>Service</b> <Svc>	[0..1]			875
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		876
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		876
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		876
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		876



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		876
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		877
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		877
	<b>Transaction</b> <Tx>	[1..1]			877
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		880
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		880
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		881
	<b>AccountData</b> <AcctData>	[0..1]			881
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		883
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		883
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		883
	<b>AccountName</b> <AcctNm>	[0..1]	Text		884
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			884
	<b>Name</b> <Nm>	[1..1]	Text		885
	<b>Address</b> <Adr>	[1..1]	±		885
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	885
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			886
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	886
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		886
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		886
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			887
	<b>Identification</b> <Id>	[1..1]	Text		887
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		887
	<b>Servicer</b> <Svcr>	[0..1]			887
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	887
Or}	<b>ProprietaryIdentification</b> <Prtryld>	[1..1]	±		888
	<b>Balance</b> <Bal>	[0..1]			888
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	888
	<b>Sign</b> <Sgn>	[0..1]	Indicator		888
	<b>Date</b> <Dt>	[0..1]	Date		889
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		889

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		889
	<b>Limits</b> <Lmts>	[0..1]			889
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	890
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		890
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		890
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			891
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Lbl>	[0..1]	Text		891
	<b>DepositLimits</b> <DpstLmts>	[0..*]			892
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		893
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		893
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		894
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			894
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		894
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		894
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	894
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		895
	<b>Fees</b> <Fees>	[0..*]	±		895
	<b>Donation</b> <Dontn>	[0..*]	±		895
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		895
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			896
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		896
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			897
	<b>Response</b> <Rspn>	[1..1]	CodeSet		897

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		897
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		901
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			901
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		901
	<b>Codification</b> <Cdfctn>	[0..1]	Text		902
	<b>Response</b> <Rspn>	[1..1]	Text		902
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		902
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		902
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		902
	<b>Action</b> <Actn>	[0..*]			902
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		903
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			903
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		904
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		906
	<b>Command</b> <Cmd>	[0..*]			906
	<b>Type</b> <Tp>	[1..1]	CodeSet		906
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		907
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		907
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		907
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		908

### 26.4.3.1 Environment <Env>

*Presence:* [1..1]

*Definition:* Environment of the deposit transaction.

**Environment <Envt>** contains the following **ATMEnvironment12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		868
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		869
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		869
	<b>ATM</b> <ATM>	[1..1]	±		869
	<b>Customer</b> <Cstmr>	[1..1]			870
	<b>Profile</b> <Prfl>	[0..1]			871
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		871
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		871
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			871
	<b>Method</b> <Mtd>	[1..1]	CodeSet		872
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		872
	<b>Result</b> <Rslt>	[0..1]	CodeSet		873
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		873
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		873
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		873
	<b>PlainCardData</b> <PlainCardData>	[0..1]			873
	<b>PAN</b> <PAN>	[0..1]	Text		874
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		874
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		874
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		874
	<b>Track1</b> <Trck1>	[0..1]	Text		874
	<b>Track2</b> <Trck2>	[0..1]	Text		875
	<b>Track3</b> <Trck3>	[0..1]	Text		875

#### 26.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

### 26.4.3.1.2 ATMManager <ATMMgr>

*Presence:* [0..1]

*Definition:* Institution in charge of managing the ATM.

**ATMManager <ATMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

### 26.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "[TerminalHosting1](#)" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

### 26.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine2" on page 1175 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 26.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			871
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		871
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		871
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			871
	<b>Method</b> <Mtd>	[1..1]	CodeSet		872
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		872
	<b>Result</b> <Rslt>	[0..1]	CodeSet		873
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		873
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		873

#### 26.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		871
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		871

##### 26.4.3.1.5.1.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

##### 26.4.3.1.5.1.2 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

##### 26.4.3.1.5.2 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		872
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		872
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		873
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		873
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		873

#### 26.4.3.1.5.2.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 26.4.3.1.5.2.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).



CodeName	Name	Definition
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 26.4.3.1.5.2.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 26.4.3.1.5.2.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 26.4.3.1.5.2.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 26.4.3.1.6 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Encryption of the sensitive card data.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 26.4.3.1.7 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		874
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		874
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		874
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		874
	<b>Track1</b> <Trck1>	[0..1]	Text		874
	<b>Track2</b> <Trck2>	[0..1]	Text		875
	<b>Track3</b> <Trck3>	[0..1]	Text		875

#### 26.4.3.1.7.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 26.4.3.1.7.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 26.4.3.1.7.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 26.4.3.1.7.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 26.4.3.1.7.5 Track1 <Trck1>

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**26.4.3.1.7.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**26.4.3.1.7.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**26.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		875
	<b>Service</b> <Svc>	[0..1]			875
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		876
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		876
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		876
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		876
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		876
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		877
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		877

**26.4.3.2.1 SessionReference <SsnRef>**

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

**26.4.3.2.2 Service <Svc>**

*Presence:* [0..1]

*Definition:* Deposit service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		876
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		876
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		876
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		876
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		876
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		877
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		877

#### 26.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the deposit service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### 26.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 26.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 26.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of deposit service selected by the customer.

*Datatype:* "ATMServiceType6Code" on page 1286

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### 26.4.3.2.2.5 ServiceVariantIdentification <SvcVarntld>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### **26.4.3.2.2.6 CashBack <CshBck>**

*Presence:* [0..1]

*Definition:* True if deposit with cash back transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **26.4.3.2.2.7 MultiAccount <MultiAcct>**

*Presence:* [0..1]

*Definition:* True if the deposit transaction is split in multiple accounts.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **26.4.3.3 Transaction <Tx>**

*Presence:* [1..1]

*Definition:* Response to the deposit request.

**Transaction <Tx>** contains the following **ATMTransaction16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		880
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		880
	<b>CompletionRequired</b> <CmpltnReqrd>	[0..1]	Indicator		881
	<b>AccountData</b> <AcctData>	[0..1]			881
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		883
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		883
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		883
	<b>AccountName</b> <AcctNm>	[0..1]	Text		884
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			884
	<b>Name</b> <Nm>	[1..1]	Text		885
	<b>Address</b> <Adr>	[1..1]	±		885
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	885
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			886
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	886
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		886
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		886
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			887
	<b>Identification</b> <Id>	[1..1]	Text		887
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		887
	<b>Servicer</b> <Svcr>	[0..1]			887
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	887
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		888
	<b>Balance</b> <Bal>	[0..1]			888
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	888
	<b>Sign</b> <Sgn>	[0..1]	Indicator		888
	<b>Date</b> <Dt>	[0..1]	Date		889
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		889
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		889
	<b>Limits</b> <Lmts>	[0..1]			889
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	890
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		890

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		890
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			891
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Labl>	[0..1]	Text		891
	<b>DepositLimits</b> <DpstLmts>	[0..*]			892
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893
	<b>ProtectedAccountData</b> <PrtctdAcctData>	[0..1]	±		893
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		893
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		894
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..*]			894
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		894
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		894
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	894
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		895
	<b>Fees</b> <Fees>	[0..*]	±		895
	<b>Donation</b> <Dontn>	[0..*]	±		895
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		895
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			896
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		896
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			897
	<b>Response</b> <Rspn>	[1..1]	CodeSet		897
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		897
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		901
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			901
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		901

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Codification</b> <Cdfctn>	[0..1]	Text		902
	<b>Response</b> <Rspn>	[1..1]	Text		902
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		902
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		902
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		902
	<b>Action</b> <Actn>	[0..*]			902
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		903
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			903
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		904
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		906
	<b>Command</b> <Cmd>	[0..*]			906
	<b>Type</b> <Tp>	[1..1]	CodeSet		906
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		907
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		907
	<b>CommandIdentification</b> <Cmdld>	[0..1]	±		907
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		908

#### 26.4.3.3.1 TransactionIdentification <Txld>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <Txld>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 26.4.3.3.2 ReconciliationIdentification <Rcncltnld>

*Presence:* [0..1]



*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### **26.4.3.3.3 CompletionRequired <CmpltnReqrd>**

*Presence:* [0..1]

*Definition:* True if a completion advice has to be sent after the end of the transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **26.4.3.3.4 AccountData <AcctData>**

*Presence:* [0..1]

*Definition:* Unprotected account information.

**AccountData <AcctData>** contains the following **CardAccount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		883
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		883
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		883
	<b>AccountName</b> <AcctNm>	[0..1]	Text		884
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			884
	<b>Name</b> <Nm>	[1..1]	Text		885
	<b>Address</b> <Adr>	[1..1]	±		885
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	885
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			886
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	886
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		886
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		886
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			887
	<b>Identification</b> <Id>	[1..1]	Text		887
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		887
	<b>Servicer</b> <Svcr>	[0..1]			887
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	887
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		888
	<b>Balance</b> <Bal>	[0..1]			888
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	888
	<b>Sign</b> <Sgn>	[0..1]	Indicator		888
	<b>Date</b> <Dt>	[0..1]	Date		889
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		889
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		889
	<b>Limits</b> <Lmts>	[0..1]			889
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	890
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		890
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		890
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			891
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Labl>	[0..1]	Text		891
	<b>DepositLimits</b> <DpstLmts>	[0..*]			892
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893

#### 26.4.3.3.4.1 AccountSequenceNumber <AcctSeqNb>

*Presence:* [0..1]

*Definition:* Sequence number of the account data for multi-account deposit.

*Datatype:* "Number" on page 1314

#### 26.4.3.3.4.2 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 26.4.3.3.4.3 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.

CodeName	Name	Definition
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 26.4.3.3.4.4 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 26.4.3.3.4.5 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name &lt;Nm&gt;</b>	[1..1]	Text		885
	<b>Address &lt;Adr&gt;</b>	[1..1]	±		885

#### 26.4.3.3.4.5.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

#### 26.4.3.3.4.5.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

#### 26.4.3.3.4.6 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 26.4.3.3.4.7 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	886
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		886
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		886
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			887
	<b>Identification</b> <Id>	[1..1]	Text		887

##### 26.4.3.3.4.7.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

##### 26.4.3.3.4.7.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

##### 26.4.3.3.4.7.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

**26.4.3.3.4.7.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		887

**26.4.3.3.4.7.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**26.4.3.3.4.8 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**26.4.3.3.4.9 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	887
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		888

**26.4.3.3.4.9.1 AnyBIC <AnyBIC>**

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**26.4.3.3.4.9.2 ProprietaryIdentification <Prtryld>**

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <Prtryld>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

**26.4.3.3.4.10 Balance <Bal>**

*Presence:* [0..1]

*Definition:* Balance of the account.

**Balance <Bal>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	888
	<b>Sign</b> <Sgn>	[0..1]	Indicator		888
	<b>Date</b> <Dt>	[0..1]	Date		889

**26.4.3.3.4.10.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* [C5 "ValidationByTable"](#)

*Datatype:* "[CurrencyAndAmount](#)" on page 1269

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**26.4.3.3.4.10.2 Sign <Sgn>**

*Presence:* [0..1]



*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator"](#) on page 1314):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

#### **26.4.3.3.4.10.3 Date <Dt>**

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate"](#) on page 1312

#### **26.4.3.3.4.11 BalanceDisplayFlag <BalDispFlg>**

*Presence:* [0..1]

*Definition:* Indicates if the balance must be displayed to the customer on the ATM.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **26.4.3.3.4.12 DefaultAccountIndicator <DfltAcctInd>**

*Presence:* [0..1]

*Definition:* Indicates if this is the default account.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **26.4.3.3.4.13 Limits <Lmts>**

*Presence:* [0..1]

*Definition:* Limit of amounts for the customer.

**Limits <Lmts>** contains the following **ATMTransactionAmounts8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	890
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		890
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		890
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			891
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Labl>	[0..1]	Text		891
	<b>DepositLimits</b> <DpstLmts>	[0..*]			892
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893

#### 26.4.3.3.4.13.1 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Default currency of the limits.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 26.4.3.3.4.13.2 MaximumPossibleAmount <MaxPssblAmt>

*Presence:* [0..1]

*Definition:* Maximum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 26.4.3.3.4.13.3 MinimumPossibleAmount <MinPssblAmt>

*Presence:* [0..1]

*Definition:* Minimum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 26.4.3.3.4.13.4 AdditionalAmount <AddtlAmt>

*Presence:* [0..\*]

*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.

**AdditionalAmount <AddtlAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	Text		891
	<b>Amount</b> <Amt>	[1..1]	Amount		891
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	891
	<b>Label</b> <Labl>	[0..1]	Text		891

##### 26.4.3.3.4.13.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of amount.

*Datatype:* "Max35Text" on page 1317

##### 26.4.3.3.4.13.4.2 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 26.4.3.3.4.13.4.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

##### 26.4.3.3.4.13.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Description of the amount that may be provided to the customer.

*Datatype:* "Max70Text" on page 1318

**26.4.3.3.4.13.5 DepositLimits <DpstLmts>***Presence:* [0..\*]*Definition:* Limit of deposited media for the customer.**DepositLimits <DpstLmts>** contains the following **ATMTransactionAmounts9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		892
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	892
	<b>MinimumNumber</b> <MinNb>	[0..1]	Quantity		893
	<b>MaximumNumber</b> <MaxNb>	[0..1]	Quantity		893
	<b>DisplayFlag</b> <DispFlg>	[0..1]	Indicator		893

**26.4.3.3.4.13.5.1 MediaType <MdiaTp>***Presence:* [1..1]*Definition:* Type of media.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**26.4.3.3.4.13.5.2 Currency <Ccy>***Presence:* [0..1]*Definition:* Currency of the media.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 26.4.3.3.4.13.5.3 MinimumNumber <MinNb>

*Presence:* [0..1]

*Definition:* Minimum number of media.

*Datatype:* "Number" on page 1314

#### 26.4.3.3.4.13.5.4 MaximumNumber <MaxNb>

*Presence:* [0..1]

*Definition:* Maximum number of media.

*Datatype:* "Number" on page 1314

#### 26.4.3.3.4.13.5.5 DisplayFlag <DispFlg>

*Presence:* [0..1]

*Definition:* True if limits may be displayed to the customer on the ATM.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 26.4.3.3.5 ProtectedAccountData <PrctcdAcctData>

*Presence:* [0..1]

*Definition:* Encryption of account information.

**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 26.4.3.3.6 TotalAuthorisedAmount <TtlAuthrsdAmt>

*Presence:* [1..1]

*Definition:* Total authorised amount of the deposit transaction.

**TotalAuthorisedAmount <TtlAuthrsdAmt>** contains the following elements (see "AmountAndCurrency1" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

**26.4.3.3.7 TotalRequestedAmount <TtlReqdAmt>***Presence:* [0..1]*Definition:* Total requested amount.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**26.4.3.3.8 DetailedRequestedAmount <DtldReqdAmt>***Presence:* [0..\*]*Definition:* Detail of the requested amounts for the deposit transaction.**DetailedRequestedAmount <DtldReqdAmt>** contains the following **DetailedAmount16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		894
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		894
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	894
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		895
	<b>Fees</b> <Fees>	[0..*]	±		895
	<b>Donation</b> <Dontn>	[0..*]	±		895

**26.4.3.3.8.1 AccountSequenceNumber <AcctSeqNb>***Presence:* [0..1]*Definition:* Link to the account for multi-account deposit.*Datatype:* "Number" on page 1314**26.4.3.3.8.2 AmountToDeposit <AmtToDpst>***Presence:* [0..1]*Definition:* Amount of the deposit to be made on the ATM after the approval of the deposit transaction.*Datatype:* "ImpliedCurrencyAndAmount" on page 1269**26.4.3.3.8.3 Currency <Ccy>***Presence:* [0..1]*Definition:* Currency of the amount to deposit when different from the base currency of the ATM.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 26.4.3.3.8.4 CashBackAmount <CshBckAmt>

*Presence:* [0..1]

*Definition:* Cashback amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 26.4.3.3.8.5 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Deposit fees, accepted by the customer.

**Fees <Fees>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 26.4.3.3.8.6 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.

**Donation <Dontn>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 26.4.3.3.9 AdditionalCharge <AddtlChrg>

*Presence:* [0..\*]

*Definition:* Additional charge (for instance tax or fee).

**AdditionalCharge <AddtlChrg>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

**26.4.3.3.10 AuthorisationResult <AuthstnRsIt>***Presence:* [0..1]*Definition:* Outcome of the deposit authorisation.**AuthorisationResult <AuthstnRsIt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		896
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			897
	<b>Response</b> <Rspn>	[1..1]	CodeSet		897
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		897
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		901
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			901
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		901
	<b>Codification</b> <Cdfctn>	[0..1]	Text		902
	<b>Response</b> <Rspn>	[1..1]	Text		902
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		902
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		902
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		902
	<b>Action</b> <Actn>	[0..*]			902
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		903
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			903
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		904

**26.4.3.3.10.1 AuthorisationEntity <AuthstnNtty>***Presence:* [0..1]*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.



CodeName	Name	Definition
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 26.4.3.3.10.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		897
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		897
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		901

##### 26.4.3.3.10.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 26.4.3.3.10.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.

CodeName	Name	Definition
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.

CodeName	Name	Definition
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.

CodeName	Name	Definition
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnline	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffline	Transaction cannot be processed offline.

CodeName	Name	Definition
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 26.4.3.3.10.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 26.4.3.3.10.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		901
	<b>Codification</b> <Cdfctn>	[0..1]	Text		902
	<b>Response</b> <Rspn>	[1..1]	Text		902
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		902
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		902

#### 26.4.3.3.10.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

**26.4.3.3.10.3.2 Codification <Cdfctn>***Presence:* [0..1]*Definition:* Codification of the response (for instance ISO 8583, IFX).*Datatype:* "Max35Text" on page 1317**26.4.3.3.10.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**26.4.3.3.10.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**26.4.3.3.10.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**26.4.3.3.10.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**26.4.3.3.10.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		903
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			903
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		904

**26.4.3.3.10.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

**26.4.3.3.10.5.2 MessageToPresent <MsgToPres>***Presence:* [0..1]*Definition:* Information to display, print or log.**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		903
	<b>Message</b> <Msg>	[0..1]	Text		904
	<b>Reference</b> <Ref>	[0..1]	Text		904
	<b>Device</b> <Dvc>	[0..1]	CodeSet		904
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		904

**26.4.3.3.10.5.2.1 Format <Frmt>***Presence:* [0..1]*Definition:* Information format.*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 26.4.3.3.10.5.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

#### 26.4.3.3.10.5.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

#### 26.4.3.3.10.5.2.4 Device <Dvc>

*Presence:* [0..1]

*Definition:* Device to be used.

*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 26.4.3.3.10.5.2.5 MessageContentSignature <MsgCnttSgntr>

*Presence:* [0..1]

*Definition:* Electronic signature of the message to display or print.

*Datatype:* "Max35Binary" on page 1270

#### 26.4.3.3.10.5.3 RequestToPerform <ReqToPrfrm>

*Presence:* [0..1]



**Definition:** Message to send before the completion of the transaction.

**Datatype:** "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.

CodeName	Name	Definition
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 26.4.3.3.11 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 26.4.3.3.12 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		906
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		907
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		907
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		907
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		908

##### 26.4.3.3.12.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 26.4.3.3.12.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 26.4.3.3.12.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODateTime" on page 1312

#### 26.4.3.3.12.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcr>	[0..1]	Text		1170

#### 26.4.3.3.12.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 26.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		908
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		909

### 26.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).

CodeName	Name	Definition
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 26.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on [page 1231](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **27      catp.014.001.01**

# **ATMDepositCompletionAdviceV01**

### **27.1    MessageDefinition Functionality**

The ATMDepositCompletionAdvice message is sent by an ATM to an acquirer or its agent to inform of the result of a deposit transaction at an ATM.

If the ATM is configured to only send negative completion, a generic completion message should be used instead of ATMCompletionAdvice.

This message can be used each time a bundle is put in the ATM safe and/or at the end of a multi bundle deposit.

#### **Outline**

The ATMDepositCompletionAdviceV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

A. Header

Information related to the protocol management on a segment of the path from the ATM to the acquirer.

B. ProtectedATMDepositCompletionAdvice

Encrypted body of the message.

C. ATMDepositCompletionAdvice

Information related to the completion of a deposit transaction on the ATM.

D. SecurityTrailer

Trailer of the message containing a MAC.

## 27.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDpstCmpltnAdvc>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			919
	<b>MessageFunction</b> <MsgFctn>	[1..1]			919
	<b>Function</b> <Fctn>	[1..1]	CodeSet		920
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		921
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		921
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		921
	<b>Exchangeldentification</b> <Xchgld>	[1..1]	Text		922
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		922
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		922
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		922
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		922
	<b>ProcessState</b> <PrclStat>	[0..1]	Text		922
	<b>Traceability</b> <Tracblt>	[0..*]			922
	<b>RelayIdentification</b> <Rlayld>	[1..1]	±		923
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		923
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		923
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		923
	<b>ProtectedATMDepositCompletionAdvice</b> <PrctdATMDpstCmpltnAdvc>	[0..1]	±		923
	<b>ATMDepositCompletionAdvice</b> <ATMDpstCmpltnAdvc>	[0..1]			924
	<b>Environment</b> <Envt>	[1..1]			931
	<b>Acquirer</b> <Acqrr>	[0..1]	±		934
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		934
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		934
	<b>ATM</b> <ATM>	[1..1]			935
	<b>Identification</b> <Id>	[1..1]	Text		937
	<b>AdditionalIdentification</b> <Addtlld>	[0..1]	Text		937
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		937
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	937

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Location</b> <Lctn>	[0..1]			938
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		938
	<b>StreetName</b> <StrtNm>	[0..1]	Text		939
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		939
	<b>PostCode</b> <PstCd>	[0..1]	Text		939
	<b>TownName</b> <TwnNm>	[1..1]	Text		939
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		939
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	939
	<b>GeoLocation</b> <GLctn>	[0..1]			939
{Or	<b>GeographicCoordinates</b> <GeogCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		941
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		941
	<b>Capabilities</b> <Cpblties>	[0..1]			941
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		942
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		942
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		943
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		943
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		943
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		943
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		944
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		944
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		944
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			944
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	946
	<b>Equipment</b> <Eqpmnt>	[0..1]			946
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		946
	<b>Model</b> <Mdl>	[0..1]	Text		946
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		946
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		947
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		947
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		947
	<b>ApprovalNumber</b> <AprvlNb>	[0..1]	Text		947
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			947
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948
	<b>Customer</b> <Cstmr>	[1..1]			948
	<b>Profile</b> <Prfl>	[0..1]			948
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		949
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		949
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		949
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	949
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			950
	<b>Method</b> <Mtd>	[1..1]	CodeSet		950
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		950
	<b>Result</b> <Rslt>	[0..1]	CodeSet		951
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		951
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		951
	<b>Card</b> <Card>	[0..1]			951
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		952
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		953
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		953
	<b>PlainCardData</b> <PlainCardData>	[0..1]			953
	<b>PAN</b> <PAN>	[0..1]	Text		954

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		954
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		954
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		954
	<b>Track1</b> <Trck1>	[0..1]	Text		954
	<b>Track2</b> <Trck2>	[0..1]	Text		954
	<b>Track3</b> <Trck3>	[0..1]	Text		954
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		954
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		955
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	955
	<b>Context</b> <Cntxt>	[1..1]			955
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		955
	<b>Service</b> <Svc>	[0..1]			956
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		956
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		956
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		956
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		956
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		957
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		957
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		957
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		957
	<b>Transaction</b> <Tx>	[1..1]			957
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		961
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		961
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		962
	<b>Incident</b> <Incdnt>	[0..*]	CodeSet		962
	<b>IncidentDetail</b> <IncdntDtl>	[0..*]	Text		963
	<b>AccountData</b> <AcctData>	[0..1]			963
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		964
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		965
	<b>AccountName</b> <AcctNm>	[0..1]	Text		966
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			966

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		966
	<b>Address</b> <Adr>	[1..1]	±		966
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	966
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			967
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	967
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		967
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		968
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			968
	<b>Identification</b> <Id>	[1..1]	Text		968
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		968
	<b>Servicer</b> <Svcr>	[0..1]			968
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	968
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		969
	<b>Balance</b> <Bal>	[0..1]			969
	<b>Amount</b> <Amt>	[1..1]	Amount	C6	969
	<b>Sign</b> <Sgn>	[0..1]	Indicator		970
	<b>Date</b> <Dt>	[0..1]	Date		970
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		970
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		970
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		970
	<b>TotalDepositedAmount</b> <TtlDpstdAmt>	[1..1]	±		971
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	Amount		971
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		971
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			971
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		971
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		971
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	972
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		972
	<b>Fees</b> <Fees>	[0..*]	±		972
	<b>Donation</b> <Dontn>	[0..*]	±		972
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		973

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		973
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		973
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			973
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		974
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			975
	<b>Response</b> <Rspn>	[1..1]	CodeSet		975
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		975
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		979
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			979
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		979
	<b>Codification</b> <Cdfctn>	[0..1]	Text		979
	<b>Response</b> <Rspn>	[1..1]	Text		980
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		980
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		980
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		980
	<b>Action</b> <Actn>	[0..*]			980
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		980
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			981
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		982
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]			984
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		984
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		985
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		985
	<b>MediaItems</b> <MdiaItms>	[1..*]			985
	<b>Count</b> <Cnt>	[0..1]	Quantity		986
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		986

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	986
	<b>CodeLineFormat</b> <CdLineFmt>	[0..1]	CodeSet		986
	<b>CodeLine</b> <CdLine>	[0..1]	Text		987
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		987
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		987
	<b>ToBeReconciledMediaCounters</b> <ToBeRcnldMdiaCntrs>	[0..*]			987
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		988
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		988
	<b>MediaItems</b> <MdiaItms>	[1..*]			989
	<b>Count</b> <Cnt>	[0..1]	Quantity		989
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		989
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	989
	<b>CodeLineFormat</b> <CdLineFmt>	[0..1]	CodeSet		990
	<b>CodeLine</b> <CdLine>	[0..1]	Text		990
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		990
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		990
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		990
	<b>Cassette</b> <Csstt>	[0..*]			991
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		992
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		992
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		993
	<b>Type</b> <Tp>	[1..1]	CodeSet		993
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		993
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		993
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			994
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		994
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	994
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		995
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		995
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		995
	<b>FlowTotals</b> <FlowTtls>	[0..*]			995

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		997
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			997
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		998
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		998

## 27.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 ValidationByTable

Must be a valid terrestrial language.

### C6 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 27.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 27.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			919
	<b>Function</b> <Fctn>	[1..1]	CodeSet		920
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		921
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		921
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		921
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		922
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		922
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		922
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		922
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		922
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		922
	<b>Traceability</b> <Tracblt>	[0..*]			922
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		923
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		923
	<b>TraceDateTimeIn</b> <TracDtTmIn>	[1..1]	DateTime		923
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		923

#### 27.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		920
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		921
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		921

#### 27.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.



CodeName	Name	Definition
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 27.4.1.1.2 ATMSvcCd <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 27.4.1.1.3 HstSvcCd <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 27.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

**27.4.1.3 ExchangeIdentification <XchgId>**

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

**27.4.1.4 ReTransmissionCounter <ReTrnsmsnCnt>**

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**27.4.1.5 CreationDateTime <CreDtTm>**

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

**27.4.1.6 InitiatingParty <InitgPty>**

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

*Datatype:* "Max35Text" on page 1317

**27.4.1.7 RecipientParty <RcptPty>**

*Presence:* [0..1]

*Definition:* Unique identification of the partner that is the recipient of the message exchange.

*Datatype:* "Max35Text" on page 1317

**27.4.1.8 ProcessState <PrcStat>**

*Presence:* [0..1]

*Definition:* State of the sender of the message inside the process flow.

*Datatype:* "Max35Text" on page 1317

**27.4.1.9 Traceability <Tracblt>**

*Presence:* [0..\*]

*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		923
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		923
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		923
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		923

#### 27.4.1.9.1 RelayIdentification <RlayId>

*Presence:* [1..1]

*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 27.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 27.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 27.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

## 27.4.2 ProtectedATMDepositCompletionAdvice <PrtctdATMDpstCmpltnAdv>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDepositCompletionAdvice** <PrctcdATMDpstCmpltnAdv< contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 27.4.3      **ATMDepositCompletionAdvice** **<ATMDpstCmpltnAdv<**

*Presence:* [0..1]

*Definition:* Information related to the completion of a deposit transaction on the ATM.

**ATMDepositCompletionAdvice <ATMDpstCmpltnAdv>** contains the following  
**ATMDepositCompletionAdvice1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			931
	<b>Acquirer</b> <Acqrr>	[0..1]	±		934
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		934
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		934
	<b>ATM</b> <ATM>	[1..1]			935
	<b>Identification</b> <Id>	[1..1]	Text		937
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		937
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		937
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	937
	<b>Location</b> <Lctn>	[0..1]			938
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		938
	<b>StreetName</b> <StrtNm>	[0..1]	Text		939
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		939
	<b>PostCode</b> <PstCd>	[0..1]	Text		939
	<b>TownName</b> <TwnNm>	[1..1]	Text		939
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		939
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	939
	<b>GeoLocation</b> <GLctn>	[0..1]			939
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		941
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		941
	<b>Capabilities</b> <Cpblties>	[0..1]			941
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		942
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		942
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		943

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		943
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		943
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		943
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		944
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		944
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		944
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			944
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	946
	<b>Equipment</b> <Eqpmnt>	[0..1]			946
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		946
	<b>Model</b> <Mdl>	[0..1]	Text		946
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		946
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		947
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		947
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		947
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		947
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			947
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948
	<b>Customer</b> <Cstmr>	[1..1]			948
	<b>Profile</b> <Prfl>	[0..1]			948
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		949
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		949
	<b>CustomerIdentification</b> <CstmrId>	[0..1]	Text		949
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	949
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			950
	<b>Method</b> <Mtd>	[1..1]	CodeSet		950

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		950
	<b>Result</b> <RsIt>	[0..1]	CodeSet		951
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		951
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		951
	<b>Card</b> <Card>	[0..1]			951
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		952
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		953
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		953
	<b>PlainCardData</b> <PlainCardData>	[0..1]			953
	<b>PAN</b> <PAN>	[0..1]	Text		954
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		954
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		954
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		954
	<b>Track1</b> <Trck1>	[0..1]	Text		954
	<b>Track2</b> <Trck2>	[0..1]	Text		954
	<b>Track3</b> <Trck3>	[0..1]	Text		954
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		954
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		955
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	955
	<b>Context</b> <Cntxt>	[1..1]			955
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		955
	<b>Service</b> <Svc>	[0..1]			956
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		956
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		956
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		956
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		956
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		957
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		957
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		957
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		957
	<b>Transaction</b> <Tx>	[1..1]			957

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		961
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		961
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		962
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		962
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		963
	<b>AccountData</b> <AcctData>	[0..1]			963
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		964
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		965
	<b>AccountName</b> <AcctNm>	[0..1]	Text		966
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			966
	<b>Name</b> <Nm>	[1..1]	Text		966
	<b>Address</b> <Adr>	[1..1]	±		966
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	966
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			967
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	967
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		967
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		968
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			968
	<b>Identification</b> <Id>	[1..1]	Text		968
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		968
	<b>Servicer</b> <Svcr>	[0..1]			968
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	968
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		969
	<b>Balance</b> <Bal>	[0..1]			969
	<b>Amount</b> <Amt>	[1..1]	Amount	C6	969
	<b>Sign</b> <Sgn>	[0..1]	Indicator		970
	<b>Date</b> <Dt>	[0..1]	Date		970
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		970
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		970
	<b>ProtectedAccountData</b> <PrctdAcctData>	[0..1]	±		970
	<b>TotalDepositedAmount</b> <TtlDpstdAmt>	[1..1]	±		971



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	Amount		971
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		971
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			971
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		971
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		971
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	972
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		972
	<b>Fees</b> <Fees>	[0..*]	±		972
	<b>Donation</b> <Dontn>	[0..*]	±		972
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		973
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		973
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		973
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			973
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		974
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			975
	<b>Response</b> <Rspn>	[1..1]	CodeSet		975
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		975
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		979
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			979
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		979
	<b>Codification</b> <Cdfctn>	[0..1]	Text		979
	<b>Response</b> <Rspn>	[1..1]	Text		980
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		980
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		980
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		980
	<b>Action</b> <Actn>	[0..*]			980
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		980
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			981
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		982
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]			984
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		984
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		985
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		985
	<b>MediaItems</b> <Mdialtms>	[1..*]			985
	<b>Count</b> <Cnt>	[0..1]	Quantity		986
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		986
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	986
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		986
	<b>CodeLine</b> <CdLine>	[0..1]	Text		987
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		987
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		987
	<b>ToBeReconciledMediaCounters</b> <ToBeRcnclMdiaCntrs>	[0..*]			987
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		988
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		988
	<b>MediaItems</b> <Mdialtms>	[1..*]			989
	<b>Count</b> <Cnt>	[0..1]	Quantity		989
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		989
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	989
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		990
	<b>CodeLine</b> <CdLine>	[0..1]	Text		990
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		990
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		990
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		990
	<b>Cassette</b> <Csstt>	[0..*]			991
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		992
	<b>LogicalIdentification</b> <Logclld>	[1..1]	Text		992
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		993

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		993
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		993
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		993
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			994
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		994
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	994
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		995
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		995
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		995
	<b>FlowTotals</b> <FlowTtls>	[0..*]			995
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstndNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		997

#### 27.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the deposit transaction.

**Environment <Envt>** contains the following **ATMEnvironment13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		934
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		934
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		934
	<b>ATM</b> <ATM>	[1..1]			935
	<b>Identification</b> <Id>	[1..1]	Text		937
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		937
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		937
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	937
	<b>Location</b> <Lctn>	[0..1]			938
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		938
	<b>StreetName</b> <StrtNm>	[0..1]	Text		939
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		939
	<b>PostCode</b> <PstCd>	[0..1]	Text		939
	<b>TownName</b> <TwnNm>	[1..1]	Text		939
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		939
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	939
	<b>GeoLocation</b> <GLctn>	[0..1]			939
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		941
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		941
	<b>Capabilities</b> <Cpblties>	[0..1]			941
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		942
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		942
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		943
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		943
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		943

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		943
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		944
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		944
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		944
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			944
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlbfFrmnt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	946
	<b>Equipment</b> <Eqpmnt>	[0..1]			946
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		946
	<b>Model</b> <Mdl>	[0..1]	Text		946
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		946
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		947
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		947
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		947
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		947
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			947
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948
	<b>Customer</b> <Cstmr>	[1..1]			948
	<b>Profile</b> <Prfl>	[0..1]			948
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		949
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		949
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		949
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	949
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			950
	<b>Method</b> <Mtd>	[1..1]	CodeSet		950
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		950
	<b>Result</b> <Rslt>	[0..1]	CodeSet		951

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		951
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		951
	<b>Card</b> <Card>	[0..1]			951
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		952
	<b>FallbackIndicator</b> <FlbckInd>	[0..1]	CodeSet		953
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		953
	<b>PlainCardData</b> <PlainCardData>	[0..1]			953
	<b>PAN</b> <PAN>	[0..1]	Text		954
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		954
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		954
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		954
	<b>Track1</b> <Trck1>	[0..1]	Text		954
	<b>Track2</b> <Trck2>	[0..1]	Text		954
	<b>Track3</b> <Trck3>	[0..1]	Text		954
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		954
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		955
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	955

#### 27.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

#### 27.4.3.1.2 ATMMManagerIdentification <ATMMgrld>

*Presence:* [0..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.3 HostingEntity <HstgNtty>

*Presence:* [0..1]

*Definition:* Entity hosting the ATM terminal.

**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 27.4.3.1.4 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		937
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		937
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		937
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	937
	<b>Location</b> <Lctn>	[0..1]			938
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		938
	<b>StreetName</b> <StrtNm>	[0..1]	Text		939
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		939
	<b>PostCode</b> <PstCd>	[0..1]	Text		939
	<b>TownName</b> <TwnNm>	[1..1]	Text		939
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		939
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	939
	<b>GeoLocation</b> <GLctn>	[0..1]			939
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		941
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		941
	<b>Capabilities</b> <Cpbilities>	[0..1]			941
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		942
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		942
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		943
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		943
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		943
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		943
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		944
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		944
	<b>DepositedMedia</b> <DpstMdia>	[0..*]	CodeSet		944



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			944
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	946
	<b>Equipment</b> <Eqpmnt>	[0..1]			946
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		946
	<b>Model</b> <Mdl>	[0..1]	Text		946
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		946
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		947
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		947
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		947
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		947
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			947
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948

#### 27.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 27.4.3.1.4.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		938
	<b>StreetName</b> <StrtNm>	[0..1]	Text		939
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		939
	<b>PostCode</b> <PstCd>	[0..1]	Text		939
	<b>TownName</b> <TwnNm>	[1..1]	Text		939
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		939
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	939
	<b>GeoLocation</b> <GLctn>	[0..1]			939
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwrd>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwrd>	[1..1]	Quantity		941

#### 27.4.3.1.4.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

**27.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**27.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**27.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**27.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**27.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**27.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**27.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			940
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			940
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		941

#### 27.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		940
	<b>Longitude</b> <Long>	[1..1]	Text		940

##### 27.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 27.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 27.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		941
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		941
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		941

#### 27.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 27.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 27.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 27.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 27.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		942
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		942
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		943
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		943
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		943
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		943
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		944
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		944
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		944
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			944
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	946

#### 27.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 27.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 27.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 27.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 27.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 27.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**27.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**27.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**27.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**27.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.



**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		945
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		945
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		945
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		945
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	946

#### 27.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 27.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 27.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 27.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**27.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**27.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		946
	<b>Model</b> <Mdl>	[0..1]	Text		946
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		946
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		947
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		947
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		947
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		947
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			947
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948

**27.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**27.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**27.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		947
	<b>Version</b> <Vrsn>	[1..1]	Text		948

##### 27.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 27.4.3.1.4.8.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			948
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		949
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		949
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		949
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	949
	<b>AuthenticationResult</b> <AuthntcnRslt>	[1..*]			950
	<b>Method</b> <Mtd>	[1..1]	CodeSet		950
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		950
	<b>Result</b> <Rslt>	[0..1]	CodeSet		951
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		951
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		951

#### 27.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the service.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		949
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		949
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		949

#### 27.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 27.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.5.1.3 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**27.4.3.1.5.3 AuthenticationResult <AuthntcnRslt>**

*Presence:* [1..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		950
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		950
	<b>Result</b> <Rslt>	[0..1]	CodeSet		951
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		951
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		951

**27.4.3.1.5.3.1 Method <Mtd>**

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**27.4.3.1.5.3.2 VerificationEntity <VrfctnNtty>**

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 27.4.3.1.5.3.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 27.4.3.1.5.3.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 27.4.3.1.5.3.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 27.4.3.1.6 Card <Card>

*Presence:* [0..1]

*Definition:* Card performing the transaction.

**Card <Card>** contains the following **PaymentCard23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		952
	<b>FallbackIndicator</b> <FlfbckInd>	[0..1]	CodeSet		953
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		953
	<b>PlainCardData</b> <PlainCardData>	[0..1]			953
	<b>PAN</b> <PAN>	[0..1]	Text		954
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		954
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		954
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		954
	<b>Track1</b> <Trck1>	[0..1]	Text		954
	<b>Track2</b> <Trck2>	[0..1]	Text		954
	<b>Track3</b> <Trck3>	[0..1]	Text		954
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		954
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		955
	<b>ElectronicPurseBalance</b> <ElctrncPrsBal>	[0..1]	Amount	C6	955

#### 27.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>

*Presence:* [1..1]

*Definition:* Entry mode that used to obtain the card data.

*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).



**27.4.3.1.6.2 FallbackIndicator <FllbckInd>***Presence:* [0..1]*Definition:* Indicate the occurrence of a fall-back on the card entry mode.*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

**27.4.3.1.6.3 ProtectedCardData <PrctcdCardData>***Presence:* [0..1]*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.**ProtectedCardData <PrctcdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**27.4.3.1.6.4 PlainCardData <PlainCardData>***Presence:* [0..1]*Definition:* Sensitive data associated with the card performing the transaction.**PlainCardData <PlainCardData>** contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		954
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		954
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		954
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		954
	<b>Track1</b> <Trck1>	[0..1]	Text		954
	<b>Track2</b> <Trck2>	[0..1]	Text		954
	<b>Track3</b> <Trck3>	[0..1]	Text		954

**27.4.3.1.6.4.1 PAN <PAN>**

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

**27.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>**

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

**27.4.3.1.6.4.3 EffectiveDate <FctvDt>**

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**27.4.3.1.6.4.4 ExpiryDate <XpryDt>**

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

**27.4.3.1.6.4.5 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**27.4.3.1.6.4.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**27.4.3.1.6.4.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**27.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

#### 27.4.3.1.6.6 CardCurrencyCode <CardCcyCd>

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

#### 27.4.3.1.6.7 ElectronicPurseBalance <ElctrncPrsBal>

*Presence:* [0..1]

*Definition:* Balance of the captured card or epurse if available.

*Impacted by:* C6 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

#### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 27.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.

**Context <Cntxt>** contains the following **ATMContext12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		955
	<b>Service</b> <Svc>	[0..1]			956
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		956
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		956
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		956
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		956
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		957
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		957
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		957
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		957

##### 27.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

Datatype: "Max35Text" on page 1317

#### 27.4.3.2.2 Service <Svc>

Presence: [0..1]

Definition: Deposit service provided by the ATM inside the session.

Service <Svc> contains the following **ATMService13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		956
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		956
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		956
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		956
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		957
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		957
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		957
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		957

##### 27.4.3.2.2.1 ServiceReference <SvcRef>

Presence: [0..1]

Definition: Unique identification of the deposit service provided by the ATM inside the session.

Datatype: "Max35Text" on page 1317

##### 27.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

Presence: [0..1]

Definition: Codification of the type of service for the ATM.

Datatype: "Max35Text" on page 1317

##### 27.4.3.2.2.3 HostServiceCode <HstSvcCd>

Presence: [0..1]

Definition: Codification of the type of service for the host.

Datatype: "Max35Text" on page 1317

##### 27.4.3.2.2.4 ServiceType <SvcTp>

Presence: [1..1]

Definition: Describes the type of deposit service selected by the customer.

Datatype: "ATMServiceType6Code" on page 1286

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.

CodeName	Name	Definition
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### 27.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.2.2.6 CashBack <CshBck>

*Presence:* [0..1]

*Definition:* True if deposit with cash back transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 27.4.3.2.2.7 MultiAccount <MultiAcct>

*Presence:* [0..1]

*Definition:* True if the deposit transaction is split in multiple accounts.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 27.4.3.2.2.8 PartialDeposit <PrtlDpst>

*Presence:* [0..1]

*Definition:* True if this is not the final deposit.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 27.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Deposit transaction for which the completion is sent.

**Transaction <Tx>** contains the following **ATMTransaction19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		961
	<b>TransactionStatus</b> <TxSts>	[1..1]	CodeSet		961
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		962
	<b>Incident</b> <IncDnt>	[0..*]	CodeSet		962
	<b>IncidentDetail</b> <IncDntDtl>	[0..*]	Text		963
	<b>AccountData</b> <AcctData>	[0..1]			963
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		964
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		965
	<b>AccountName</b> <AcctNm>	[0..1]	Text		966
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			966
	<b>Name</b> <Nm>	[1..1]	Text		966
	<b>Address</b> <Adr>	[1..1]	±		966
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	966
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			967
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	967
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		967
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		968
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			968
	<b>Identification</b> <Id>	[1..1]	Text		968
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		968
	<b>Servicer</b> <Svcr>	[0..1]			968
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	968
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		969
	<b>Balance</b> <Bal>	[0..1]			969
	<b>Amount</b> <Amt>	[1..1]	Amount	C6	969
	<b>Sign</b> <Sgn>	[0..1]	Indicator		970
	<b>Date</b> <Dt>	[0..1]	Date		970
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		970
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		970
	<b>ProtectedAccountData</b> <PrctcdAcctData>	[0..1]	±		970
	<b>TotalDepositedAmount</b> <TtlDpstdAmt>	[1..1]	±		971

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	Amount		971
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		971
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			971
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		971
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		971
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	972
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		972
	<b>Fees</b> <Fees>	[0..*]	±		972
	<b>Donation</b> <Dontn>	[0..*]	±		972
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]	±		973
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		973
	<b>ReceiptPrinted</b> <RctPrtd>	[0..1]	Indicator		973
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			973
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		974
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			975
	<b>Response</b> <Rspn>	[1..1]	CodeSet		975
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		975
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		979
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			979
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		979
	<b>Codification</b> <Cdfctn>	[0..1]	Text		979
	<b>Response</b> <Rspn>	[1..1]	Text		980
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		980
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		980
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		980
	<b>Action</b> <Actn>	[0..*]			980
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		980
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			981
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		982
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]			984
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		984
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		985
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		985
	<b>MediaItems</b> <Mdialtms>	[1..*]			985
	<b>Count</b> <Cnt>	[0..1]	Quantity		986
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		986
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	986
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		986
	<b>CodeLine</b> <CdLine>	[0..1]	Text		987
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		987
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		987
	<b>ToBeReconciledMediaCounters</b> <ToBeRcnclMdiaCntrs>	[0..*]			987
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		988
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		988
	<b>MediaItems</b> <Mdialtms>	[1..*]			989
	<b>Count</b> <Cnt>	[0..1]	Quantity		989
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		989
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	989
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		990
	<b>CodeLine</b> <CdLine>	[0..1]	Text		990
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		990
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		990
	<b>ATMTotals</b> <ATMTtls>	[0..*]	±		990
	<b>Cassette</b> <Csstt>	[0..*]			991
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		992
	<b>LogicalIdentification</b> <LogclId>	[1..1]	Text		992
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		993



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		993
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		993
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		993
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			994
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		994
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	994
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		995
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		995
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		995
	<b>FlowTotals</b> <FlowTtls>	[0..*]			995
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcyclNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		997

#### 27.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "[TransactionIdentifier1](#)" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 27.4.3.3.2 TransactionStatus <TxSts>

*Presence:* [1..1]

*Definition:* Outcome of the financial transaction for the customer.

*Datatype:* "ATMTransactionStatus1Code" on page 1288

CodeName	Name	Definition
DOBT	Doubt	Undetermined status, for instance possibly forgotten notes.
FAIL	Failure	Transaction failed.
SCSS	Success	Transaction was successfully completed.

#### 27.4.3.3.3 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.3.4 Incident <IncDnt>

*Presence:* [0..\*]

*Definition:* Incident occurring during the processing of the transaction.

*Datatype:* "FailureReason7Code" on page 1297

CodeName	Name	Definition
CDCP	CardCaptured	ATM manager has requested to capture the card.
CDCL	CardDeclined	Integrated circuit card declines the transaction before or after the authorisation.
CDER	CardError	Unable to complete transaction with the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CUDC	CustomerDecline	Customer has declined additional fees or a lower amount, transaction fails.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
FILL	FulfilmentError	Unable to fulfil, for instance dispensing the cash.
MALF	Malfunction	Suspected malfunction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
TIMO	TimeOut	Timeout while waiting for a response to a request message, or no response was received (for example connection release before receiving the response).

CodeName	Name	Definition
LATE	TooLateResponse	Response to the previous message was received too late.
UCPT	UnableToCapture	Unable to capture the card as requested.
UCMP	UnableToComplete	Unable to complete the transaction after the authorisation response.
USND	UnableToSend	Unable to deliver the request message to the recipient party.
CSRV	OutOfCustomerService	ATM manager has requested to the ATM to stop customer services.
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CUTO	CustomerTimeOut	Customer has not been performed in time an action.

#### 27.4.3.3.5 IncidentDetail <IncDntDtl>

*Presence:* [0..\*]

*Definition:* Explanation of the incident.

*Datatype:* "Max70Text" on page 1318

#### 27.4.3.3.6 AccountData <AcctData>

*Presence:* [0..1]

*Definition:* Unprotected account information.

**AccountData <AcctData>** contains the following **CardAccount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		964
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		965
	<b>AccountName</b> <AcctNm>	[0..1]	Text		966
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			966
	<b>Name</b> <Nm>	[1..1]	Text		966
	<b>Address</b> <Adr>	[1..1]	±		966
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	966
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			967
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	967
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		967
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		968
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			968
	<b>Identification</b> <Id>	[1..1]	Text		968
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		968
	<b>Servicer</b> <Svcr>	[0..1]			968
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	968
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		969
	<b>Balance</b> <Bal>	[0..1]			969
	<b>Amount</b> <Amt>	[1..1]	Amount	C6	969
	<b>Sign</b> <Sgn>	[0..1]	Indicator		970
	<b>Date</b> <Dt>	[0..1]	Date		970
	<b>BalanceDisplayFlag</b> <BalDispFlg>	[0..1]	Indicator		970
	<b>DefaultAccountIndicator</b> <DfltAcctInd>	[0..1]	Indicator		970

#### 27.4.3.3.6.1 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.

CodeName	Name	Definition
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 27.4.3.3.6.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

**27.4.3.3.6.3 AccountName <AcctNm>***Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.*Datatype:* "Max70Text" on page 1318**27.4.3.3.6.4 AccountOwner <AcctOwnr>***Presence:* [0..1]*Definition:* Party that legally owns the account.**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name</b> <Nm>	[1..1]	Text		966
	<b>Address</b> <Adr>	[1..1]	±		966

**27.4.3.3.6.4.1 Name <Nm>***Presence:* [1..1]*Definition:* Name by which a party is known and is usually used to identify that identity.*Datatype:* "Max70Text" on page 1318**27.4.3.3.6.4.2 Address <Adr>***Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

**27.4.3.3.6.5 Currency <Ccy>***Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 27.4.3.3.6.6 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	967
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		967
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		968
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			968
	<b>Identification</b> <Id>	[1..1]	Text		968

#### 27.4.3.3.6.6.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

#### 27.4.3.3.6.6.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

**27.4.3.3.6.6.3 UPIC <UPIC>**

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPIIdentifier" on page 1313

**27.4.3.3.6.6.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		968

**27.4.3.3.6.6.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**27.4.3.3.6.6.7 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**27.4.3.3.6.6.8 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	968
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		969

**27.4.3.3.6.8.1 AnyBIC <AnyBIC>**

*Presence:* [1..1]



*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

#### 27.4.3.3.6.8.2 ProprietaryIdentification <PrtryId>

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 27.4.3.3.6.9 Balance <Bal>

*Presence:* [0..1]

*Definition:* Balance of the account.

**Balance <Bal>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C6	969
	<b>Sign</b> <Sgn>	[0..1]	Indicator		970
	<b>Date</b> <Dt>	[0..1]	Date		970

#### 27.4.3.3.6.9.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* C6 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**27.4.3.3.6.9.2 Sign <Sgn>**

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator" on page 1314](#)):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

**27.4.3.3.6.9.3 Date <Dt>**

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate" on page 1312](#)

**27.4.3.3.6.10 BalanceDisplayFlag <BalDispFlg>**

*Presence:* [0..1]

*Definition:* Indicates if the balance must be displayed to the customer on the ATM.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**27.4.3.3.6.11 DefaultAccountIndicator <DfltAcctInd>**

*Presence:* [0..1]

*Definition:* Indicates if this is the default account.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator" on page 1314](#)):

- *Meaning When True:* True
- *Meaning When False:* False

**27.4.3.3.7 ProtectedAccountData <PrctcdAcctData>**

*Presence:* [0..1]

*Definition:* Encryption of account information.

**ProtectedAccountData <PrctcdAcctData>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

**27.4.3.3.8 TotalDepositedAmount <TtIDpstdAmt>***Presence:* [1..1]*Definition:* Total amount deposited by the customer.**TotalDepositedAmount <TtIDpstdAmt>** contains the following elements (see "[AmountAndCurrency1](#)" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

**27.4.3.3.9 TotalAuthorisedAmount <TtIAuthrsdAmt>***Presence:* [1..1]*Definition:* Total authorised amount of the deposit transaction.*Datatype:* "[ImpliedCurrencyAndAmount](#)" on page 1269**27.4.3.3.10 TotalRequestedAmount <TtIReqdAmt>***Presence:* [0..1]*Definition:* Total requested amount.*Datatype:* "[ImpliedCurrencyAndAmount](#)" on page 1269**27.4.3.3.11 DetailedRequestedAmount <DtIdReqdAmt>***Presence:* [0..1]*Definition:* Amounts of the deposit transaction.**DetailedRequestedAmount <DtIdReqdAmt>** contains the following **DetailedAmount16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		971
	<b>AmountToDeposit</b> <AmtToDpst>	[0..1]	Amount		971
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	972
	<b>CashBackAmount</b> <CshBckAmt>	[0..1]	Amount		972
	<b>Fees</b> <Fees>	[0..*]	±		972
	<b>Donation</b> <Dontr>	[0..*]	±		972

**27.4.3.3.11.1 AccountSequenceNumber <AcctSeqNb>***Presence:* [0..1]*Definition:* Link to the account for multi-account deposit.*Datatype:* "[Number](#)" on page 1314**27.4.3.3.11.2 AmountToDeposit <AmtToDpst>***Presence:* [0..1]

*Definition:* Amount of the deposit to be made on the ATM after the approval of the deposit transaction.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 27.4.3.3.11.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount to deposit when different from the base currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 27.4.3.3.11.4 CashBackAmount <CshBckAmt>

*Presence:* [0..1]

*Definition:* Cashback amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 27.4.3.3.11.5 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Deposit fees, accepted by the customer.

**Fees <Fees>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 27.4.3.3.11.6 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.

**Donation <Dontn>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

**27.4.3.3.12 AdditionalCharge <AddtlChrg>**

*Presence:* [0..\*]

*Definition:* Additional charge (for instance tax or fee).

**AdditionalCharge <AddtlChrg>** contains the following elements (see "[DetailedAmount13](#)" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

**27.4.3.3.13 RequestedReceipt <ReqdRct>**

*Presence:* [0..1]

*Definition:* True if the customer has requested a receipt.

*Datatype:* One of the following values must be used (see "[TrueFalseIndicator](#)" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**27.4.3.3.14 ReceiptPrinted <RctPrtd>**

*Presence:* [0..1]

*Definition:* True if a receipt has been printed and presented to the customer.

*Datatype:* One of the following values must be used (see "[TrueFalseIndicator](#)" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**27.4.3.3.15 AuthorisationResult <AuthstnRslt>**

*Presence:* [0..1]

*Definition:* Outcome of the deposit authorisation.

**AuthorisationResult <AuthstnRslt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		974
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			975
	<b>Response</b> <Rspn>	[1..1]	CodeSet		975
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		975
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		979
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			979
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		979
	<b>Codification</b> <Cdfctn>	[0..1]	Text		979
	<b>Response</b> <Rspn>	[1..1]	Text		980
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		980
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		980
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		980
	<b>Action</b> <Actn>	[0..*]			980
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		980
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			981
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		982

#### 27.4.3.3.15.1 AuthorisationEntity <AuthstnNtty>

*Presence:* [0..1]

*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).

*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.

CodeName	Name	Definition
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 27.4.3.3.15.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		975
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		975
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		979

##### 27.4.3.3.15.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 27.4.3.3.15.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.

CodeName	Name	Definition
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.



CodeName	Name	Definition
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.

CodeName	Name	Definition
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.

CodeName	Name	Definition
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 27.4.3.3.15.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 27.4.3.3.15.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		979
	<b>Codification</b> <Cdfctn>	[0..1]	Text		979
	<b>Response</b> <Rspn>	[1..1]	Text		980
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		980
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		980

#### 27.4.3.3.15.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.3.15.3.2 Codification <Cdfctn>

*Presence:* [0..1]

*Definition:* Codification of the response (for instance ISO 8583, IFX).

*Datatype:* "Max35Text" on page 1317

**27.4.3.3.15.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**27.4.3.3.15.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**27.4.3.3.15.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**27.4.3.3.15.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**27.4.3.3.15.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		980
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			981
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		982

**27.4.3.3.15.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 27.4.3.3.15.5.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		981
	<b>Message</b> <Msg>	[0..1]	Text		982
	<b>Reference</b> <Ref>	[0..1]	Text		982
	<b>Device</b> <Dvc>	[0..1]	CodeSet		982
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		982

#### 27.4.3.3.15.5.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.

CodeName	Name	Definition
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

**27.4.3.3.15.5.2.2 Message <Msg>***Presence:* [0..1]*Definition:* Content of the message.*Datatype:* "Max20000Text" on page 1316**27.4.3.3.15.5.2.3 Reference <Ref>***Presence:* [0..1]*Definition:* Message content if this is a message reference or screen reference.*Datatype:* "Max35Text" on page 1317**27.4.3.3.15.5.2.4 Device <Dvc>***Presence:* [0..1]*Definition:* Device to be used.*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

**27.4.3.3.15.5.2.5 MessageContentSignature <MsgCnttSgntr>***Presence:* [0..1]*Definition:* Electronic signature of the message to display or print.*Datatype:* "Max35Binary" on page 1270**27.4.3.3.15.5.3 RequestToPerform <ReqToPrfrm>***Presence:* [0..1]*Definition:* Message to send before the completion of the transaction.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAP	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 27.4.3.3.16 DepositedMedia <DpstdMdia>

*Presence:* [0..\*]

*Definition:* Deposited media put in the safe.

**DepositedMedia <DpstdMdia>** contains the following **ATMDepositedMedia1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountSequenceNumber</b> <AcctSeqNb>	[0..1]	Quantity		984
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		985
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		985
	<b>MediaItems</b> <Mdialtms>	[1..*]			985
	<b>Count</b> <Cnt>	[0..1]	Quantity		986
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		986
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	986
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		986
	<b>CodeLine</b> <CdLine>	[0..1]	Text		987
	<b>ScannedValue</b> <ScnndVal>	[0..1]	Amount		987
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		987

##### 27.4.3.3.16.1 AccountSequenceNumber <AcctSeqNb>

*Presence:* [0..1]

*Definition:* Link to the account for multi-account deposit.

*Datatype:* "Number" on page 1314



**27.4.3.3.16.2 MediaType <MdiaTp>***Presence:* [1..1]*Definition:* Type of deposited media.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**27.4.3.3.16.3 MediaCategory <MdiaCtgy>***Presence:* [0..1]*Definition:* Category of deposited media items.*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

**27.4.3.3.16.4 MediaItems <Mdialtms>***Presence:* [1..\*]*Definition:* Media item that are deposited.

**MediaItems <Mdialtms>** contains the following **ATMDepositedMedia2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Count</b> <Cnt>	[0..1]	Quantity		986
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		986
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	986
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		986
	<b>CodeLine</b> <CdLine>	[0..1]	Text		987
	<b>ScannedValue</b> <ScrndVal>	[0..1]	Amount		987
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		987

#### 27.4.3.3.16.4.1 Count <Cnt>

*Presence:* [0..1]

*Definition:* Number of deposit media.

*Datatype:* "Number" on page 1314

#### 27.4.3.3.16.4.2 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount or denomination of one media item, if the media type is valued or entered by the customer.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 27.4.3.3.16.4.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of media items, if valued and different from base currency.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 27.4.3.3.16.4.4 CodeLineFormat <CdLineFrmt>

*Presence:* [0..1]

*Definition:* Format of the check code line.

*Datatype:* "CheckCodeLine1Code" on page 1293

CodeName	Name	Definition
CMC7	CMC7	Magnetic ink character digitally encoded with 7 sticks.
E13B	E13B	Magnetic ink character recognition.,conform to ISO 1004.
OCRA	OCRA	Optical character recognition font A, conform to ANSI X3.17:1981.
OCRB	OCRB	Optical character recognition font B, conform to ANSI X3.49:1975.
OCRF	OCRDefault	Default optical character recognition used.

#### 27.4.3.3.16.4.5 CodeLine <CdLine>

*Presence:* [0..1]

*Definition:* Check code line.

*Datatype:* "Max70Text" on page 1318

#### 27.4.3.3.16.4.6 ScannedValue <ScnndVal>

*Presence:* [0..1]

*Definition:* Check amount scanned by the check reader.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 27.4.3.3.16.4.7 ConfidenceLevel <CnfdncLvl>

*Presence:* [0..1]

*Definition:* Percentage of the confidence in the check amount.

*Datatype:* "Percentage" on page 1315

#### 27.4.3.3.17 ToBeReconciledMediaCounters <ToBeRcnclMdiaCntrs>

*Presence:* [0..\*]

*Definition:* Media unit not put in the safe. These deposits have to be reconciliated.

**ToBeReconciledMediaCounters <ToBeRcncldMdiaCntrs>** contains the following **ATMDepositedMedia3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MediaType</b> <MdiaTp>	[1..1]	CodeSet		988
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		988
	<b>MediaItems</b> <Mdialtms>	[1..*]			989
	<b>Count</b> <Cnt>	[0..1]	Quantity		989
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		989
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	989
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		990
	<b>CodeLine</b> <CdLine>	[0..1]	Text		990
	<b>ScannedValue</b> <ScrndVal>	[0..1]	Amount		990
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		990

#### 27.4.3.3.17.1 MediaType <MdiaTp>

*Presence:* [1..1]

*Definition:* Type of deposited media.

*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

#### 27.4.3.3.17.2 MediaCategory <MdiaCtgy>

*Presence:* [0..1]

*Definition:* Category of deposited media items.

*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.

CodeName	Name	Definition
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### 27.4.3.3.17.3 Medialtems <Mdialtms>

*Presence:* [1..\*]

*Definition:* Media item that are deposited.

**Medialtems <Mdialtms>** contains the following **ATMDepositedMedia2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Count</b> <Cnt>	[0..1]	Quantity		989
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		989
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	989
	<b>CodeLineFormat</b> <CdLineFrmt>	[0..1]	CodeSet		990
	<b>CodeLine</b> <CdLine>	[0..1]	Text		990
	<b>ScannedValue</b> <ScrndVal>	[0..1]	Amount		990
	<b>ConfidenceLevel</b> <CnfdncLvl>	[0..1]	Rate		990

##### 27.4.3.3.17.3.1 Count <Cnt>

*Presence:* [0..1]

*Definition:* Number of deposit media.

*Datatype:* "Number" on page 1314

##### 27.4.3.3.17.3.2 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount or denomination of one media item, if the media type is valued or entered by the customer.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 27.4.3.3.17.3.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of media items, if valued and different from base currency.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**27.4.3.3.17.3.4 CodeLineFormat <CdLineFrmt>**

*Presence:* [0..1]

*Definition:* Format of the check code line.

*Datatype:* "CheckCodeLine1Code" on page 1293

CodeName	Name	Definition
CMC7	CMC7	Magnetic ink character digitally encoded with 7 sticks.
E13B	E13B	Magnetic ink character recognition.,conform to ISO 1004.
OCRA	OCRA	Optical character recognition font A, conform to ANSI X3.17:1981.
OCRB	OCRB	Optical character recognition font B, conform to ANSI X3.49:1975.
OCRF	OCRDefault	Default optical character recognition used.

**27.4.3.3.17.3.5 CodeLine <CdLine>**

*Presence:* [0..1]

*Definition:* Check code line.

*Datatype:* "Max70Text" on page 1318

**27.4.3.3.17.3.6 ScannedValue <ScnndVal>**

*Presence:* [0..1]

*Definition:* Check amount scanned by the check reader.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

**27.4.3.3.17.3.7 ConfidenceLevel <CnfdncLvl>**

*Presence:* [0..1]

*Definition:* Percentage of the confidence in the check amount.

*Datatype:* "Percentage" on page 1315

**27.4.3.3.18 ATMTotals <ATMTtls>**

*Presence:* [0..\*]

*Definition:* Current totals of the ATM.

**ATMTotals <ATMTtls>** contains the following elements (see "ATMTotals1" on page 1182 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MediaType <MdiaTp>	[0..1]	CodeSet		1182
	Currency <Ccy>	[0..1]	CodeSet	C1	1183
	ATMBalance <ATMBal>	[0..1]	Amount		1183
	ATMCurrent <ATMCur>	[0..1]	Amount		1183
	ATMBalanceNumber <ATMBalNb>	[0..1]	Quantity		1183
	ATMCurrentNumber <ATMCurNb>	[0..1]	Quantity		1183

#### 27.4.3.3.19 Cassette <Csstt>

*Presence:* [0..\*]

*Definition:* Information on the cassettes of the ATM.

**Cassette <Csst>** contains the following **ATMCassette2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PhysicalIdentification</b> <PhysId>	[0..1]	Text		992
	<b>LogicalIdentification</b> <LogcId>	[1..1]	Text		992
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		993
	<b>Type</b> <Tp>	[1..1]	CodeSet		993
	<b>SubType</b> <SubTp>	[0..*]	CodeSet		993
	<b>MediaType</b> <MdiaTp>	[0..1]	CodeSet		993
	<b>MediaCounters</b> <MdiaCntrs>	[0..*]			994
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		994
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	994
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		995
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		995
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		995
	<b>FlowTotals</b> <FlowTtls>	[0..*]			995
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997

#### 27.4.3.3.19.1 PhysicalIdentification <PhysId>

*Presence:* [0..1]

*Definition:* Physical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 27.4.3.3.19.2 LogicalIdentification <LogcId>

*Presence:* [1..1]

*Definition:* Logical identification of the cassette for the ATM.

*Datatype:* "Max35Text" on page 1317



**27.4.3.3.19.3 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number or unique identification of the cassette hardware.*Datatype:* "Max35Text" on page 1317**27.4.3.3.19.4 Type <Tp>***Presence:* [1..1]*Definition:* Type of cassette.*Datatype:* "ATMCassetteType1Code" on page 1276

CodeName	Name	Definition
DPST	In	Cassette for deposits.
DISP	Out	Cassette for dispense.
RCYC	Recycling	Cassette for recycling.
RJCT	Reject	Cassette for reject.
RPLT	Replenishment	Cassette for replenishment.
RTRC	Retract	Cassette for retract.

**27.4.3.3.19.5 SubType <SubTp>***Presence:* [0..\*]*Definition:* Type of items the cash-in takes*Datatype:* "ATMNoteType1Code" on page 1282

CodeName	Name	Definition
ALLT	All	All fit bank note types.
CNTR	Counterfeit	Detected counterfeit notes.
IDVD	Individual	All types of fit bank notes specified in an individual list.
SCNT	SuspectedCounterfeit	Suspected counterfeit notes.
UNFT	Unfit	Unfit bank notes (unacceptable quality).

**27.4.3.3.19.6 MediaType <MdiaTp>***Presence:* [0..1]*Definition:* Type of media inside the cassette.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.

CodeName	Name	Definition
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

#### 27.4.3.3.19.7 MediaCounters <MdiaCntrs>

*Presence:* [0..\*]

*Definition:* Counter per unit value or globally.

**MediaCounters <MdiaCntrs>** contains the following **ATMCassetteCounters3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UnitValue</b> <UnitVal>	[0..1]	Amount		994
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	994
	<b>MediaCategory</b> <MdiaCtgy>	[0..1]	CodeSet		995
	<b>CurrentNumber</b> <CurNb>	[1..1]	Quantity		995
	<b>CurrentAmount</b> <CurAmt>	[0..1]	Amount		995
	<b>FlowTotals</b> <FlowTtls>	[0..*]			995
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997

##### 27.4.3.3.19.7.1 UnitValue <UnitVal>

*Presence:* [0..1]

*Definition:* Amount of one media unit, if the media type is valued.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

##### 27.4.3.3.19.7.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the media, if the media type is valued and different from the currency of the requested amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **27.4.3.3.19.7.3 MediaCategory <MdiaCtgy>**

*Presence:* [0..1]

*Definition:* Category of media items.

*Datatype:* "ATMMediaType3Code" on page 1282

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

#### **27.4.3.3.19.7.4 CurrentNumber <CurNb>**

*Presence:* [1..1]

*Definition:* Current number of media present in the cassette.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.5 CurrentAmount <CurAmt>**

*Presence:* [0..1]

*Definition:* Current amount in the cassette.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### **27.4.3.3.19.7.6 FlowTotals <FlowTtls>**

*Presence:* [0..\*]

*Definition:* Counters of media inside the cassette.

**FlowTotals <FlowTtls>** contains the following **ATMCassetteCounters4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		996
	<b>AddedNumber</b> <AddedNb>	[0..1]	Quantity		996
	<b>RemovedNumber</b> <RmvdNb>	[0..1]	Quantity		996
	<b>DispensedNumber</b> <DspnsdNb>	[0..1]	Quantity		996
	<b>DepositedNumber</b> <DpstdNb>	[0..1]	Quantity		997
	<b>RecycledNumber</b> <RcycldNb>	[0..1]	Quantity		997
	<b>RetractedNumber</b> <RtrctdNb>	[0..1]	Quantity		997
	<b>RejectedNumber</b> <RjctdNb>	[0..1]	Quantity		997
	<b>PresentedNumber</b> <PresntdNb>	[0..1]	Quantity		997

#### 27.4.3.3.19.7.6.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of counters.

*Datatype:* "ATMCounterType1Code" on page 1279

CodeName	Name	Definition
INQU	CountersInquiry	Counters since the last counters inquiry.
CTXN	CustomerTransaction	Counters for a customer transaction.
CTOF	CutOff	Counters since the last cut-off.
BDAY	BusinessDay	Counters since the beginning of the business day.
PRTN	Operation	Counters for an operation performed by an operator on the ATM.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

#### 27.4.3.3.19.7.6.2 AddedNumber <AddedNb>

*Presence:* [0..1]

*Definition:* Number of added media during servicing operations.

*Datatype:* "Number" on page 1314

#### 27.4.3.3.19.7.6.3 RemovedNumber <RmvdNb>

*Presence:* [0..1]

*Definition:* Number of removed media during servicing operations.

*Datatype:* "Number" on page 1314

#### 27.4.3.3.19.7.6.4 DispensedNumber <DspnsdNb>

*Presence:* [0..1]

*Definition:* Total number of media out of the cassette.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.6.5 DepositedNumber <DpstdNb>**

*Presence:* [0..1]

*Definition:* Total number of media deposited in the cassette.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.6.6 RecycledNumber <RcycldNb>**

*Presence:* [0..1]

*Definition:* Total number of recycled media from the cassette.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.6.7 RetractedNumber <RtrctdNb>**

*Presence:* [0..1]

*Definition:* Total number of retracted media originating from the cassette.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.6.8 RejectedNumber <RjctdNb>**

*Presence:* [0..1]

*Definition:* Total number of media from this cassette which are on the reject bin.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.19.7.6.9 PresentedNumber <PresntdNb>**

*Presence:* [0..1]

*Definition:* Total number of media presented to the customer.

*Datatype:* "Number" on page 1314

#### **27.4.3.3.20 ICCRelatedData <ICCRltdData>**

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### **27.4.4 SecurityTrailer <SctyTrlr>**

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		998
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		998

#### 27.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 27.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "AuthenticatedData4" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **28      catp.015.001.01 ATMDepositCompletionAcknowledgementV0 1**

### **28.1    MessageDefinition Functionality**

The ATMDepositCompletionAcknowledgement message is sent by an acquirer or its agent to an ATM to acknowledge the receipt of an ATMDepositCompletionAdvice message.

#### Outline

The ATMDepositCompletionAcknowledgementV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMDepositCompletionAcknowledgement  
Encrypted body of the message.
- C. ATMDepositCompletionAcknowledgement  
Information related to the acknowledgement of an ATM deposit transaction from the ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 28.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMDpstCmpltnAck>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			1001
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1002
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1002
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1004
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1004
	<b>ProtocolVersion</b> <PrtolVrsn>	[1..1]	Text		1004
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1004
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		1004
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1005
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1005
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1005
	<b>ProcessState</b> <PrctStat>	[0..1]	Text		1005
	<b>Traceability</b> <Tracblt>	[0..*]			1005
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1005
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1006
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		1006
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1006
	<b>ProtectedATMDepositCompletionAcknowledgement</b> <PrctcdATMDpstCmpltnAck>	[0..1]	±		1006
	<b>ATMDepositCompletionAcknowledgement</b> <ATMDpstCmpltnAck>	[0..1]			1006
	<b>ATM</b> <ATM>	[1..1]	±		1007
	<b>Context</b> <Cntxt>	[1..1]			1008
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1009
	<b>Service</b> <Svc>	[0..1]			1009
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1009
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1010
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1010
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1010
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1010



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		1010
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		1010
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		1011
	<b>Transaction</b> <Tx>	[1..1]			1011
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1011
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1011
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1012
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1015
	<b>Command</b> <Cmd>	[0..*]			1015
	<b>Type</b> <Tp>	[1..1]	CodeSet		1016
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1016
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1017
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1017
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1017
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			1017
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1018
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1018

## 28.3 Constraints

### C1 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 28.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 28.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1002
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1002
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1004
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1004
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		1004
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1004
	<b>ReTransmissionCounter</b> <ReTrnsmssnCntr>	[0..1]	Quantity		1004
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1005
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1005
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1005
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		1005
	<b>Traceability</b> <Tracblt>	[0..*]			1005
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1005
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1006
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		1006
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1006

#### 28.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1002
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1004
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1004

##### 28.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAP	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 28.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 28.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 28.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 28.4.1.3 ExchangeIdentification <Xchgld>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 28.4.1.4 ReTransmissionCounter <ReTrnsmssnCntr>

*Presence:* [0..1]

*Definition:* Retransmission counter of this advice, 0 for the first transmission.

*Datatype:* "Number" on page 1314

**28.4.1.5 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 1312**28.4.1.6 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.*Datatype:* "Max35Text" on page 1317**28.4.1.7 RecipientParty <RcptPty>***Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.*Datatype:* "Max35Text" on page 1317**28.4.1.8 ProcessState <PrcStat>***Presence:* [0..1]*Definition:* State of the sender of the message inside the process flow.*Datatype:* "Max35Text" on page 1317**28.4.1.9 Traceability <Tracblt>***Presence:* [0..\*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.**Traceability <Tracblt>** contains the following **Traceability4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1005
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1006
	<b>TraceDateTimeln</b> <TracDtTmln>	[1..1]	DateTime		1006
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1006

**28.4.1.9.1 RelayIdentification <RlayId>***Presence:* [1..1]*Definition:* Identification of a partner of a message exchange.

**RelayIdentification <RlayId>** contains the following elements (see "[GenericIdentification77](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 28.4.1.9.2 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "[Max35Text](#)" on page 1317

#### 28.4.1.9.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

#### 28.4.1.9.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "[ISODatetime](#)" on page 1312

### 28.4.2 ProtectedATMDepositCompletionAcknowledgement <PrtctdATMDpstCmpltnAck>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMDepositCompletionAcknowledgement <PrtctdATMDpstCmpltnAck>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 28.4.3 ATMDepositCompletionAcknowledgement <ATMDpstCmpltnAck>

*Presence:* [0..1]

*Definition:* Information related to the acknowledgement of an ATM deposit transaction from the ATM manager.

**ATMDepositCompletionAcknowledgement <ATMDpstCmpltnAck>** contains the following **ATMDepositCompletionAcknowledgement1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ATM</b> <ATM>	[1..1]	±		1007
	<b>Context</b> <Cntxt>	[1..1]			1008
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1009
	<b>Service</b> <Svc>	[0..1]			1009
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1009
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1010
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1010
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1010
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1010
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		1010
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		1010
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		1011
	<b>Transaction</b> <Tx>	[1..1]			1011
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1011
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1011
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1012
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1015
	<b>Command</b> <Cmd>	[0..*]			1015
	<b>Type</b> <Tp>	[1..1]	CodeSet		1016
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1016
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1017
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1017
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1017

#### 28.4.3.1 ATM <ATM>

*Presence:* [1..1]

*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine3" on page 1223 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtlId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

### 28.4.3.2 Context <Cntxt>

*Presence:* [1..1]

*Definition:* Context in which the transaction is performed.



**Context <Cntxt>** contains the following **ATMContext12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1009
	<b>Service</b> <Svc>	[0..1]			1009
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1009
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1010
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1010
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1010
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1010
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		1010
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		1010
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		1011

#### 28.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the service is performed.

*Datatype:* "Max35Text" on page 1317

#### 28.4.3.2.2 Service <Svc>

*Presence:* [0..1]

*Definition:* Deposit service provided by the ATM inside the session.

**Service <Svc>** contains the following **ATMService13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1009
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1010
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1010
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1010
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1010
	<b>CashBack</b> <CshBck>	[0..1]	Indicator		1010
	<b>MultiAccount</b> <MultiAcct>	[0..1]	Indicator		1010
	<b>PartialDeposit</b> <PrtlDpst>	[0..1]	Indicator		1011

##### 28.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the deposit service provided by the ATM inside the session.

*Datatype:* "Max35Text" on page 1317

#### **28.4.3.2.2.2 ATMSERVICECODE <ATMSvcCd>**

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### **28.4.3.2.2.3 HostServiceCode <HstSvcCd>**

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### **28.4.3.2.2.4 ServiceType <SvcTp>**

*Presence:* [1..1]

*Definition:* Describes the type of deposit service selected by the customer.

*Datatype:* "ATMSERVICEType6Code" on page 1286

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

#### **28.4.3.2.2.5 ServiceVariantIdentification <SvcVarntId>**

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### **28.4.3.2.2.6 CashBack <CshBck>**

*Presence:* [0..1]

*Definition:* True if deposit with cash back transaction.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### **28.4.3.2.2.7 MultiAccount <MultiAcct>**

*Presence:* [0..1]

*Definition:* True if the deposit transaction is split in multiple accounts.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**28.4.3.2.2.8 PartialDeposit <PrtlDpst>***Presence:* [0..1]*Definition:* True if this is not the final deposit.*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**28.4.3.3 Transaction <Tx>***Presence:* [1..1]*Definition:* Acknowledgement of the deposit completion advice.**Transaction <Tx>** contains the following **ATMTransaction18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1011
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1011
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1012
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1015
	<b>Command</b> <Cmd>	[0..*]			1015
	<b>Type</b> <Tp>	[1..1]	CodeSet		1016
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1016
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1017
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1017
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1017

**28.4.3.3.1 TransactionIdentification <TxId>***Presence:* [1..1]*Definition:* Identification of the transaction assigned by the ATM.**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

**28.4.3.3.2 Response <Rspn>***Presence:* [1..1]*Definition:* Response to the advice.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

#### 28.4.3.3.3 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.

CodeName	Name	Definition
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.

CodeName	Name	Definition
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.

CodeName	Name	Definition
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 28.4.3.3.4 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 28.4.3.3.5 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		1016
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1016
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1017
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1017
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1017

#### 28.4.3.3.5.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 28.4.3.3.5.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session



**28.4.3.3.5.3 DateTime <DtTm>***Presence:* [0..1]*Definition:* Date time on which the command must be performed.*Datatype:* ["ISODateTime" on page 1312](#)**28.4.3.3.5.4 CommandIdentification <CmdId>***Presence:* [0..1]*Definition:* Identification of the entity issuing the command.**CommandIdentification <CmdId>** contains the following elements (see ["ATMCommandIdentification1" on page 1169](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

**28.4.3.3.5.5 CommandParameters <CmdParams>***Presence:* [0..1]*Definition:* Specific parameters attached to the command.**CommandParameters <CmdParams>** contains one of the following elements (see ["ATMCommandParameters1Choice" on page 1193](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

**28.4.4 SecurityTrailer <SctyTrlr>***Presence:* [0..1]*Definition:* Trailer of the message containing a MAC.**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1018
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1018

#### 28.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 28.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **29      catp.016.001.01          ATMTransferRequestV01**

### **29.1    MessageDefinition Functionality**

The ATMTransferRequest message is sent by an ATM to an ATM manager to request the approval of a fund transfer at the ATM.

#### Outline

The ATMTransferRequestV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMTransferRequest  
Encrypted body of the message.
- C. ATMTransferRequest  
Information related to the request of a fund transfer from an ATM.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 29.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMTrfReq>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			1026
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1027
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1027
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1029
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1029
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		1029
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1029
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1029
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1029
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1030
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		1030
	<b>Traceability</b> <Tracblt>	[0..*]			1030
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1030
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1030
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		1031
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1031
	<b>ProtectedATMTransferRequest</b> <PrctcdATMTrfReq>	[0..1]	±		1031
	<b>ATMTransferRequest</b> <ATMTrfReq>	[0..1]			1031
	<b>Environment</b> <Envt>	[1..1]			1037
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1040
	<b>ATMManagerIdentification</b> <ATMMgrId>	[0..1]	Text		1041
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1041
	<b>ATM</b> <ATM>	[1..1]			1041
	<b>Identification</b> <Id>	[1..1]	Text		1043
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		1043
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1043
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	1043
	<b>Location</b> <Lctn>	[0..1]			1044
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		1044

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StreetName</b> <StrtNm>	[0..1]	Text		1045
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		1045
	<b>PostCode</b> <PstCd>	[0..1]	Text		1045
	<b>TownName</b> <TwnNm>	[1..1]	Text		1045
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		1045
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	1045
	<b>GeoLocation</b> <GLctn>	[0..1]			1045
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		1047
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		1047
	<b>Capabilities</b> <Cpblties>	[0..1]			1047
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		1048
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		1048
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		1049
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		1049
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		1049
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		1049
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		1050
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		1050
	<b>DepositedMedia</b> <DpstlMdia>	[0..*]	CodeSet		1050
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			1050
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	1052

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Equipment</b> <Eqpmnt>	[0..1]			1052
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		1052
	<b>Model</b> <Mdl>	[0..1]	Text		1052
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		1052
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		1053
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		1053
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		1053
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		1053
	<b>ConfigurationParameter</b> <CfgrParam>	[0..*]			1053
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054
	<b>Customer</b> <Cstmr>	[1..1]			1054
	<b>Profile</b> <Prfl>	[0..1]			1055
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		1055
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1056
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		1056
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	1056
	<b>Authentication</b> <Authntcn>	[1..*]			1056
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		1057
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		1057
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		1057
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		1057
	<b>CardholderOnLinePIN</b> <CrhldrOnLinePIN>	[0..1]	±		1058
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1058
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1058
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1059
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1059
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1060
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1060
	<b>Card</b> <Card>	[0..1]			1060
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		1060

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		1061
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		1061
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1061
	<b>PAN</b> <PAN>	[0..1]	Text		1062
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1062
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1062
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1062
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		1062
	<b>Track1</b> <Trck1>	[0..1]	Text		1063
	<b>Track2</b> <Trck2>	[0..1]	Text		1063
	<b>Track3</b> <Trck3>	[0..1]	Text		1063
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		1063
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		1063
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		1063
	<b>Context</b> <Cntxt>	[0..1]			1063
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1064
	<b>Service</b> <Svc>	[1..1]			1064
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1064
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1064
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1064
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1065
	<b>Transaction</b> <Tx>	[1..1]			1065
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1068
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		1068
	<b>CreditorLabel</b> <CdtrLbl>	[0..1]	Text		1068
	<b>DebtorLabel</b> <DbtrLbl>	[0..1]	Text		1068
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1068
	<b>AccountFrom</b> <AcctFr>	[0..1]			1068
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1069
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1069
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1070

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1070
	<b>Name</b> <Nm>	[1..1]	Text		1071
	<b>Address</b> <Adr>	[1..1]	±		1071
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1071
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1072
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1072
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1072
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1072
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1073
	<b>Identification</b> <Id>	[1..1]	Text		1073
	<b>Servicer</b> <Svcr>	[0..1]			1073
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1073
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1073
	<b>ProtectedAccountFrom</b> <PrctdAcctFr>	[0..1]	±		1074
	<b>AccountTo</b> <AcctTo>	[0..*]			1074
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1075
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1075
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1076
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1076
	<b>Name</b> <Nm>	[1..1]	Text		1077
	<b>Address</b> <Adr>	[1..1]	±		1077
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1077
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1078
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1078
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1078
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1078
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1079
	<b>Identification</b> <Id>	[1..1]	Text		1079
	<b>Servicer</b> <Svcr>	[0..1]			1079
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1079
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1079



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProtectedAccountTo</b> <PrtctdAcctTo>	[0..1]	±		1080
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1080
	<b>DetailedRequestedAmount</b> <DtlReqdAmt>	[0..1]			1080
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1081
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1081
	<b>Fees</b> <Fees>	[0..*]			1081
	<b>Amount</b> <Amt>	[1..1]	Amount		1082
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1082
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1082
	<b>Label</b> <Labl>	[0..1]	Text		1082
	<b>Donation</b> <Dontn>	[0..*]			1082
	<b>Amount</b> <Amt>	[1..1]	Amount		1083
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1083
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1083
	<b>Label</b> <Labl>	[0..1]	Text		1083
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1083
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1084
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1084
	<b>StartDate</b> <StartDt>	[1..1]	Date		1084
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1084
	<b>EndDate</b> <EndDt>	[1..1]	Date		1084
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1084
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1085
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		1085
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		1085
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			1085
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1086
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1086

## 29.3 Constraints

### C1 **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 **ValidationByTable**

Must be a valid terrestrial language.

## 29.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 29.4.1 **Header <Hdr>**

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1027
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1027
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1029
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1029
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		1029
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1029
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1029
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1029
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1030
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		1030
	<b>Traceability</b> <Tracblt>	[0..*]			1030
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1030
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1030
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		1031
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1031

#### 29.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1027
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1029
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1029

##### 29.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.

CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 29.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 29.4.1.1.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 29.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 29.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 29.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 29.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: ["Max35Text" on page 1317](#)

#### 29.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: ["Max35Text" on page 1317](#)

#### 29.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: ["Max35Text" on page 1317](#)

#### 29.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		1030
	SequenceNumber <SeqNb>	[0..1]	Text		1030
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		1031
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		1031

##### 29.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see ["GenericIdentification77" on page 1229](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 29.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* "Max35Text" on page 1317

#### 29.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

#### 29.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* "ISODateTime" on page 1312

### 29.4.2 ProtectedATMTransferRequest <PrtctdATMTrfReq>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMTransferRequest <PrtctdATMTrfReq>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 29.4.3 ATMTransferRequest <ATMTrfReq>

*Presence:* [0..1]

*Definition:* Information related to the request of a fund transfer from an ATM.

**ATMTransferRequest <ATMTrfReq>** contains the following **ATMTransferRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			1037
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1040
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		1041
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1041
	<b>ATM</b> <ATM>	[1..1]			1041
	<b>Identification</b> <Id>	[1..1]	Text		1043
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		1043
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1043
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	1043
	<b>Location</b> <Lctn>	[0..1]			1044
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		1044
	<b>StreetName</b> <StrtNm>	[0..1]	Text		1045
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		1045
	<b>PostCode</b> <PstCd>	[0..1]	Text		1045
	<b>TownName</b> <TwnNm>	[1..1]	Text		1045
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		1045
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	1045
	<b>GeoLocation</b> <GLctn>	[0..1]			1045
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		1047
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		1047
	<b>Capabilities</b> <Cpblties>	[0..1]			1047
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		1048
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		1048
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		1049
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		1049



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ApprovalCodeLength</b> <ApprvlCdLngth>	[0..1]	Quantity		1049
	<b>MaxScriptLength</b> <MxScptLngth>	[0..1]	Quantity		1049
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		1050
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		1050
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		1050
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			1050
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	1052
	<b>Equipment</b> <Eqpmnt>	[0..1]			1052
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		1052
	<b>Model</b> <Mdl>	[0..1]	Text		1052
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		1052
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		1053
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		1053
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		1053
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		1053
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			1053
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054
	<b>Customer</b> <Cstmr>	[1..1]			1054
	<b>Profile</b> <Prfl>	[0..1]			1055
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		1055
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1056
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		1056
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	1056
	<b>Authentication</b> <Authntcn>	[1..*]			1056
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		1057
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		1057

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		1057
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		1057
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		1058
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1058
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1058
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1059
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1059
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1060
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1060
	<b>Card</b> <Card>	[0..1]			1060
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		1060
	<b>FallbackIndicator</b> <Flbcklnd>	[0..1]	CodeSet		1061
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		1061
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1061
	<b>PAN</b> <PAN>	[0..1]	Text		1062
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1062
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1062
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1062
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		1062
	<b>Track1</b> <Trck1>	[0..1]	Text		1063
	<b>Track2</b> <Trck2>	[0..1]	Text		1063
	<b>Track3</b> <Trck3>	[0..1]	Text		1063
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		1063
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		1063
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		1063
	<b>Context</b> <Cntxt>	[0..1]			1063
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1064
	<b>Service</b> <Svc>	[1..1]			1064
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1064
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1064
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1064

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		1065
	<b>Transaction</b> <Tx>	[1..1]			1065
	<b>TransactionIdentification</b> <Txld>	[1..1]	±		1068
	<b>ReconciliationIdentification</b> <Rcncltnld>	[0..1]	Text		1068
	<b>CreditorLabel</b> <CdtrLabl>	[0..1]	Text		1068
	<b>DebtorLabel</b> <DbtrLabl>	[0..1]	Text		1068
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1068
	<b>AccountFrom</b> <AcctFr>	[0..1]			1068
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1069
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1069
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1070
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1070
	<b>Name</b> <Nm>	[1..1]	Text		1071
	<b>Address</b> <Adr>	[1..1]	±		1071
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1071
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			1072
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1072
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1072
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1072
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1073
	<b>Identification</b> <Id>	[1..1]	Text		1073
	<b>Servicer</b> <Svcr>	[0..1]			1073
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1073
Or}	<b>ProprietaryIdentification</b> <Prtryld>	[1..1]	±		1073
	<b>ProtectedAccountFrom</b> <PrtctdAcctFr>	[0..1]	±		1074
	<b>AccountTo</b> <AcctTo>	[0..*]			1074
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1075
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1075
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1076
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1076
	<b>Name</b> <Nm>	[1..1]	Text		1077

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Address</b> <Adr>	[1..1]	±		1077
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1077
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1078
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1078
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1078
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1078
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1079
	<b>Identification</b> <Id>	[1..1]	Text		1079
	<b>Servicer</b> <Svcr>	[0..1]			1079
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1079
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1079
	<b>ProtectedAccountTo</b> <PrctdAcctTo>	[0..1]	±		1080
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1080
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			1080
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1081
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1081
	<b>Fees</b> <Fees>	[0..*]			1081
	<b>Amount</b> <Amt>	[1..1]	Amount		1082
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1082
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1082
	<b>Label</b> <Lbl>	[0..1]	Text		1082
	<b>Donation</b> <Dontn>	[0..*]			1082
	<b>Amount</b> <Amt>	[1..1]	Amount		1083
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1083
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1083
	<b>Label</b> <Lbl>	[0..1]	Text		1083
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1083
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1084
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1084
	<b>StartDate</b> <StartDt>	[1..1]	Date		1084
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1084

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>EndDate</b> <EndDt>	[1..1]	Date		1084
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1084
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1085
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		1085
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1085

### 29.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment in which the fund transfer is performed.

**Environment <Envt>** contains the following **ATMEnvironment11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1040
	<b>ATMManagerIdentification</b> <ATMMgrld>	[0..1]	Text		1041
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1041
	<b>ATM</b> <ATM>	[1..1]			1041
	<b>Identification</b> <Id>	[1..1]	Text		1043
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		1043
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1043
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	1043
	<b>Location</b> <Lctn>	[0..1]			1044
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		1044
	<b>StreetName</b> <StrtNm>	[0..1]	Text		1045
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		1045
	<b>PostCode</b> <PstCd>	[0..1]	Text		1045
	<b>TownName</b> <TwnNm>	[1..1]	Text		1045
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		1045
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	1045
	<b>GeoLocation</b> <GLctn>	[0..1]			1045
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		1047
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		1047
	<b>Capabilities</b> <Cpblties>	[0..1]			1047
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		1048
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		1048
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		1049
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		1049
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		1049

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MaxScriptLength</b> <MxScrpLngth>	[0..1]	Quantity		1049
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		1050
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		1050
	<b>DepositedMedia</b> <DpstdMdia>	[0..*]	CodeSet		1050
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			1050
	<b>Destination</b> <Dstrn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlbfFrmnt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlbfLang>	[0..*]	CodeSet	C5	1052
	<b>Equipment</b> <Eqpmnt>	[0..1]			1052
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		1052
	<b>Model</b> <Mdl>	[0..1]	Text		1052
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		1052
	<b>ApplicationProvider</b> <AppIPrvdr>	[0..1]	Text		1053
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		1053
	<b>ApplicationVersion</b> <AppIVrsn>	[0..1]	Text		1053
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		1053
	<b>ConfigurationParameter</b> <CfgrtnParam>	[0..*]			1053
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054
	<b>Customer</b> <Cstmr>	[1..1]			1054
	<b>Profile</b> <Prfl>	[0..1]			1055
	<b>RetrievalMode</b> <RtrvlMd>	[1..1]	CodeSet		1055
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1056
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		1056
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	1056
	<b>Authentication</b> <Authntcn>	[1..*]			1056
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		1057
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		1057
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		1057

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		1057
	<b>CardholderOnLinePIN</b> <CrhdldrOnLinePIN>	[0..1]	±		1058
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1058
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1058
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1059
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1059
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1060
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1060
	<b>Card</b> <Card>	[0..1]			1060
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		1060
	<b>FallbackIndicator</b> <FllbckInd>	[0..1]	CodeSet		1061
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		1061
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1061
	<b>PAN</b> <PAN>	[0..1]	Text		1062
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1062
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1062
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1062
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		1062
	<b>Track1</b> <Trck1>	[0..1]	Text		1063
	<b>Track2</b> <Trck2>	[0..1]	Text		1063
	<b>Track3</b> <Trck3>	[0..1]	Text		1063
	<b>CardholderName</b> <CrhdldrNm>	[0..1]	Text		1063
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		1063
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		1063

#### 29.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transaction, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstr>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166



**29.4.3.1.2 ATMMManagerIdentification <ATMMgrId>***Presence:* [0..1]*Definition:* Identification of the ATM manager.*Datatype:* "Max35Text" on page 1317**29.4.3.1.3 HostingEntity <HstgNtty>***Presence:* [0..1]*Definition:* Entity hosting the ATM terminal.**HostingEntity <HstgNtty>** contains the following elements (see "TerminalHosting1" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**29.4.3.1.4 ATM <ATM>***Presence:* [1..1]*Definition:* ATM information.

**ATM <ATM>** contains the following **AutomatedTellerMachine9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification</b> <Id>	[1..1]	Text		1043
	<b>AdditionalIdentification</b> <AddtlId>	[0..1]	Text		1043
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1043
	<b>BaseCurrency</b> <BaseCcy>	[1..1]	CodeSet	C1	1043
	<b>Location</b> <Lctn>	[0..1]			1044
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		1044
	<b>StreetName</b> <StrtNm>	[0..1]	Text		1045
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		1045
	<b>PostCode</b> <PstCd>	[0..1]	Text		1045
	<b>TownName</b> <TwnNm>	[1..1]	Text		1045
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		1045
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	1045
	<b>GeoLocation</b> <GLctn>	[0..1]			1045
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		1047
	<b>LocationCategory</b> <LctnCtgy>	[0..1]	CodeSet		1047
	<b>Capabilities</b> <Cpbilities>	[0..1]			1047
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		1048
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		1048
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		1049
	<b>PINLengthCapabilities</b> <PINLnghCpbilities>	[0..1]	Quantity		1049
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		1049
	<b>MaxScriptLength</b> <MxScrpLngh>	[0..1]	Quantity		1049
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		1050
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		1050
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		1050

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			1050
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	1052
	<b>Equipment</b> <Eqpmnt>	[0..1]			1052
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		1052
	<b>Model</b> <Mdl>	[0..1]	Text		1052
	<b>SerialNumber</b> <SrlNb>	[0..1]	Text		1052
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		1053
	<b>ApplicationName</b> <ApplNm>	[0..1]	Text		1053
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		1053
	<b>ApprovalNumber</b> <ApprvlNb>	[0..1]	Text		1053
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			1053
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054

#### 29.4.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.1.4.5 Location <Lctn>

Presence: [0..1]

Definition: Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AddressLine</b> <AdrLine>	[0..2]	Text		1044
	<b>StreetName</b> <StrtNm>	[0..1]	Text		1045
	<b>BuildingNumber</b> <BldgNb>	[0..1]	Text		1045
	<b>PostCode</b> <PstCd>	[0..1]	Text		1045
	<b>TownName</b> <TwnNm>	[1..1]	Text		1045
	<b>CountrySubDivision</b> <CtrySubDvsn>	[0..2]	Text		1045
	<b>Country</b> <Ctry>	[1..1]	CodeSet	C3	1045
	<b>GeoLocation</b> <GLctn>	[0..1]			1045
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwrdr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwrdr>	[1..1]	Quantity		1047

#### 29.4.3.1.4.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 1318

**29.4.3.1.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**29.4.3.1.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**29.4.3.1.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**29.4.3.1.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**29.4.3.1.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**29.4.3.1.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C3 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**29.4.3.1.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>GeographicCoordinates</b> <GeogcCordints>	[1..1]			1046
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046
Or}	<b>UTMCoordinates</b> <UTMCordints>	[1..1]			1046
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		1047

#### 29.4.3.1.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Latitude</b> <Lat>	[1..1]	Text		1046
	<b>Longitude</b> <Long>	[1..1]	Text		1046

##### 29.4.3.1.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 29.4.3.1.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 29.4.3.1.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>UTMZone</b> <UTMZone>	[1..1]	Text		1047
	<b>UTMEastward</b> <UTMEstwr>	[1..1]	Quantity		1047
	<b>UTMNorthward</b> <UTMNrthwr>	[1..1]	Quantity		1047

#### 29.4.3.1.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 29.4.3.1.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 29.4.3.1.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 29.4.3.1.4.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

#### 29.4.3.1.4.7 Capabilities <Cpblties>

*Presence:* [0..1]

*Definition:* Capabilities of the ATM terminal performing the transaction.

**Capabilities <Cpblties>** contains the following **PointOfInteractionCapabilities7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardReadData</b> <CardRdData>	[0..*]	CodeSet		1048
	<b>CardWriteData</b> <CardWrtData>	[0..*]	CodeSet		1048
	<b>Authentication</b> <Authntcn>	[0..*]	CodeSet		1049
	<b>PINLengthCapabilities</b> <PINLnghCpblties>	[0..1]	Quantity		1049
	<b>ApprovalCodeLength</b> <ApprvlCdLngh>	[0..1]	Quantity		1049
	<b>MaxScriptLength</b> <MxScrptLngh>	[0..1]	Quantity		1049
	<b>CardCaptureCapable</b> <CardCaptrCpbl>	[0..1]	Indicator		1050
	<b>WithdrawalMedia</b> <WdrwlMdia>	[0..*]	CodeSet		1050
	<b>DepositedMedia</b> <DpstddMdia>	[0..*]	CodeSet		1050
	<b>MessageCapabilities</b> <MsgCpblties>	[0..*]			1050
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	1052

#### 29.4.3.1.4.7.1 CardReadData <CardRdData>

*Presence:* [0..\*]

*Definition:* Card reading capabilities of the ATM performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 29.4.3.1.4.7.2 CardWriteData <CardWrtData>

*Presence:* [0..\*]

*Definition:* Card writing capabilities of the terminal performing the transaction.

*Datatype:* "CardDataReading4Code" on page 1292



CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

#### 29.4.3.1.4.7.3 Authentication <Authntcn>

*Presence:* [0..\*]

*Definition:* Customer and card authentication capabilities available at the ATM.

*Datatype:* "CardholderVerificationCapability3Code" on page 1292

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

#### 29.4.3.1.4.7.4 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the ATM is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

#### 29.4.3.1.4.7.5 ApprovalCodeLength <ApprvICdLngh>

*Presence:* [0..1]

*Definition:* Maximum number of characters of the approval code the ATM is able to manage.

*Datatype:* "Number" on page 1314

#### 29.4.3.1.4.7.6 MaxScriptLength <MxScrpLngh>

*Presence:* [0..1]

*Definition:* Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

*Datatype:* "Number" on page 1314

**29.4.3.1.4.7.7 CardCaptureCapable <CardCaptrCpbl>***Presence:* [0..1]*Definition:* True if the ATM is able to capture card.*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**29.4.3.1.4.7.8 WithdrawalMedia <WdrwlMdia>***Presence:* [0..\*]*Definition:* Type of media the ATM is able to dispense.*Datatype:* "ATMMediaType1Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

**29.4.3.1.4.7.9 DepositedMedia <DpstdMdia>***Presence:* [0..\*]*Definition:* Type of media the customer is able to deposit in the ATM.*Datatype:* "ATMMediaType2Code" on page 1281

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

**29.4.3.1.4.7.10 MessageCapabilities <MsgCpblties>***Presence:* [0..\*]*Definition:* Capabilities of the terminal to display or print message to the cardholder and the merchant.

**MessageCapabilities <MsgCpblties>** contains the following **DisplayCapabilities5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Destination</b> <Dstn>	[1..*]	CodeSet		1051
	<b>AvailableFormat</b> <AvlblFrmt>	[0..*]	CodeSet		1051
	<b>NumberOfLines</b> <NbOfLines>	[0..1]	Quantity		1051
	<b>LineWidth</b> <LineWidth>	[0..1]	Quantity		1051
	<b>AvailableLanguage</b> <AvlblLang>	[0..*]	CodeSet	C5	1052

#### 29.4.3.1.4.7.10.1 Destination <Dstn>

*Presence:* [1..\*]

*Definition:* Destination of the message to present.

*Datatype:* "UserInterface5Code" on page 1311

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

#### 29.4.3.1.4.7.10.2 AvailableFormat <AvlblFrmt>

*Presence:* [0..\*]

*Definition:* Available message format.

*Datatype:* "OutputFormat1Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 29.4.3.1.4.7.10.3 NumberOfLines <NbOfLines>

*Presence:* [0..1]

*Definition:* Number of lines of the display.

*Datatype:* "Number" on page 1314

#### 29.4.3.1.4.7.10.4 LineWidth <LineWidth>

*Presence:* [0..1]

*Definition:* Number of columns of the display or printer.

*Datatype:* "Number" on page 1314

**29.4.3.1.4.7.10.5 AvailableLanguage <AvlblLang>***Presence:* [0..\*]*Definition:* Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).*Impacted by:* C5 "ValidationByTable"*Datatype:* "LanguageCode" on page 1299**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**29.4.3.1.4.8 Equipment <Eqpmnt>***Presence:* [0..1]*Definition:* ATM terminal equipment.**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Manufacturer</b> <Manfctr>	[0..1]	Text		1052
	<b>Model</b> <Mdl>	[0..1]	Text		1052
	<b>SerialNumber</b> <SrINb>	[0..1]	Text		1052
	<b>ApplicationProvider</b> <ApplPrvdr>	[0..1]	Text		1053
	<b>ApplicationName</b> <AppINm>	[0..1]	Text		1053
	<b>ApplicationVersion</b> <ApplVrsn>	[0..1]	Text		1053
	<b>ApprovalNumber</b> <ApprvINb>	[0..1]	Text		1053
	<b>ConfigurationParameter</b> <CfgtnParam>	[0..*]			1053
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054

**29.4.3.1.4.8.1 Manufacturer <Manfctr>***Presence:* [0..1]*Definition:* ATM Manufacturer.*Datatype:* "Max35Text" on page 1317**29.4.3.1.4.8.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**29.4.3.1.4.8.3 SerialNumber <SrINb>***Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.8.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.8.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.8.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.8.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.4.8.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		1053
	<b>Version</b> <Vrsn>	[1..1]	Text		1054

##### 29.4.3.1.4.8.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.

CodeName	Name	Definition
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

**29.4.3.1.4.8.8.2 Version <Vrsn>**

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

**29.4.3.1.5 Customer <Cstmr>**

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile</b> <Prfl>	[0..1]			1055
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		1055
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1056
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		1056
	<b>SelectedLanguage</b> <SelctdLang>	[0..1]	CodeSet	C5	1056
	<b>Authentication</b> <Authntcn>	[1..*]			1056
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		1057
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		1057
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		1057
	<b>ProtectedAuthenticationValue</b> <PrtctdAuthntcnVal>	[0..1]	±		1057
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		1058
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1058
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1058
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1059
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1059
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1060
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1060

#### 29.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RetrievalMode</b> <RtrvIMd>	[1..1]	CodeSet		1055
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1056
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		1056

##### 29.4.3.1.5.1.1 RetrievalMode <RtrvIMd>

*Presence:* [1..1]

*Definition:* Describes the main way customer information was collected to build up the customer menu and to provide the service.

*Datatype:* "ATMCustomerProfile1Code" on page 1279

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

#### 29.4.3.1.5.1.2 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.5.1.3 CustomerIdentification <CstmrId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.1.5.2 SelectedLanguage <SelctdLang>

*Presence:* [0..1]

*Definition:* Language selected by the customer at the ATM for the customer session. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "LanguageCode" on page 1299

#### Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

#### 29.4.3.1.5.3 Authentication <Authntcn>

*Presence:* [1..\*]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer and its card.

**Authentication <Authntcn>** contains the following **CardholderAuthentication8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthenticationMethod</b> <AuthntcnMtd>	[1..1]	CodeSet		1057
	<b>TokenRequested</b> <TknReqd>	[0..1]	Indicator		1057
	<b>AuthenticationValue</b> <AuthntcnVal>	[0..1]	Binary		1057
	<b>ProtectedAuthenticationValue</b> <PrctcdAuthntcnVal>	[0..1]	±		1057
	<b>CardholderOnLinePIN</b> <CrdhldrOnLinePIN>	[0..1]	±		1058



**29.4.3.1.5.3.1 AuthenticationMethod <AuthntcnMtd>**

*Presence:* [1..1]

*Definition:* Method and data intended to be used for this transaction to authenticate the customer or its card.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

**29.4.3.1.5.3.2 TokenRequested <TknReqd>**

*Presence:* [0..1]

*Definition:* True if an authentication token is requested to the host. This token will be provided to the ATM for further authentication.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

**29.4.3.1.5.3.3 AuthenticationValue <AuthntcnVal>**

*Presence:* [0..1]

*Definition:* Value or token to be used for customer or card authentication.

*Datatype:* "Max5000Binary" on page 1271

**29.4.3.1.5.3.4 ProtectedAuthenticationValue <PrtctdAuthntcnVal>**

*Presence:* [0..1]

*Definition:* Protection of the authentication value.

**ProtectedAuthenticationValue <PrctcdAuthntcnVal>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 29.4.3.1.5.3.5 CardholderOnLinePIN <CrhdldrOnLinePIN>

*Presence:* [0..1]

*Definition:* Encrypted personal identification number (PIN) and related information.

**CardholderOnLinePIN <CrhdldrOnLinePIN>** contains the following elements (see "OnLinePIN5" on page 1170 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 29.4.3.1.5.4 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1058
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1059
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1059
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1060
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1060

##### 29.4.3.1.5.4.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.

CodeName	Name	Definition
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 29.4.3.1.5.4.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 29.4.3.1.5.4.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

**29.4.3.1.5.4.4 AdditionalResult <AddtlRslt>***Presence:* [0..1]*Definition:* Additional result of the verification.*Datatype:* "Max500Text" on page 1318**29.4.3.1.5.4.5 AuthenticationToken <AuthntcnTkn>***Presence:* [0..1]*Definition:* Token provided to the ATM for further proof of authentication.*Datatype:* "Max140Binary" on page 1270**29.4.3.1.6 Card <Card>***Presence:* [0..1]*Definition:* Card performing the transaction.**Card <Card>** contains the following **PaymentCard22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CardDataEntryMode</b> <CardDataNtryMd>	[1..1]	CodeSet		1060
	<b>FallbackIndicator</b> <Flbcklnd>	[0..1]	CodeSet		1061
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		1061
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1061
	<b>PAN</b> <PAN>	[0..1]	Text		1062
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1062
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1062
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1062
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		1062
	<b>Track1</b> <Trck1>	[0..1]	Text		1063
	<b>Track2</b> <Trck2>	[0..1]	Text		1063
	<b>Track3</b> <Trck3>	[0..1]	Text		1063
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		1063
	<b>CardCountryCode</b> <CardCtryCd>	[0..1]	Text		1063
	<b>CardCurrencyCode</b> <CardCcyCd>	[0..1]	Text		1063

**29.4.3.1.6.1 CardDataEntryMode <CardDataNtryMd>***Presence:* [1..1]*Definition:* Entry mode used to obtain the card data.*Datatype:* "CardDataReading1Code" on page 1291

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

#### 29.4.3.1.6.2 FallbackIndicator <FllbckInd>

*Presence:* [0..1]

*Definition:* Indicates the occurrence of a fall-back on the card entry mode.

*Datatype:* "CardFallback1Code" on page 1292

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

#### 29.4.3.1.6.3 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Replacement of the message element PlainCardData by a digital envelope using a cryptographic key.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 29.4.3.1.6.4 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		1062
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1062
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1062
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1062
	<b>ServiceCode</b> <SvcCd>	[0..1]	Text		1062
	<b>Track1</b> <Trck1>	[0..1]	Text		1063
	<b>Track2</b> <Trck2>	[0..1]	Text		1063
	<b>Track3</b> <Trck3>	[0..1]	Text		1063
	<b>CardholderName</b> <CrdhldrNm>	[0..1]	Text		1063

#### 29.4.3.1.6.4.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 29.4.3.1.6.4.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 29.4.3.1.6.4.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 29.4.3.1.6.4.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 29.4.3.1.6.4.5 ServiceCode <SvcCd>

*Presence:* [0..1]

*Definition:* Services attached to the card, as defined in ISO 7813.

*Datatype:* "Exact3NumericText" on page 1315

**29.4.3.1.6.4.6 Track1 <Trck1>**

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318

**29.4.3.1.6.4.7 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**29.4.3.1.6.4.8 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**29.4.3.1.6.4.9 CardholderName <CrhdldrNm>**

*Presence:* [0..1]

*Definition:* Name of the cardholder stored on the card.

*Datatype:* "Max45Text" on page 1318

**29.4.3.1.6.5 CardCountryCode <CardCtryCd>**

*Presence:* [0..1]

*Definition:* Country code assigned to the card by the card issuer.

*Datatype:* "Max3Text" on page 1317

**29.4.3.1.6.6 CardCurrencyCode <CardCcyCd>**

*Presence:* [0..1]

*Definition:* Currency code of the card issuer (ISO 4217 numeric code).

*Datatype:* "Exact3AlphaNumericText" on page 1315

**29.4.3.2 Context <Cntxt>**

*Presence:* [0..1]

*Definition:* Context in which the fund transfer is performed.

**Context <Cntxt>** contains the following **ATMContext18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1064
	<b>Service</b> <Svc>	[1..1]			1064
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1064
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1064
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1064
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		1065

#### 29.4.3.2.1 SessionReference <SsnRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the transfer is performed.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.2.2 Service <Svc>

*Presence:* [1..1]

*Definition:* Fund transfer service requested by the ATM inside the session.

**Service <Svc>** contains the following **ATMService22** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1064
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1064
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1064
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		1065

##### 29.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the transfer is performed.

*Datatype:* "Max35Text" on page 1317

##### 29.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

##### 29.4.3.2.2.3 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of fund transfer selected by the customer or the ATM.



*Datatype:* "ATMServiceType9Code" on page 1287

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.

#### 29.4.3.2.2.4 ServiceVariantIdentification <SvcVarntId>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Transfer information for the transaction.

**Transaction <Tx>** contains the following **ATMTransaction23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1068
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		1068
	<b>CreditorLabel</b> <CdtrLbl>	[0..1]	Text		1068
	<b>DebtorLabel</b> <DbtrLbl>	[0..1]	Text		1068
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1068
	<b>AccountFrom</b> <AcctFr>	[0..1]			1068
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1069
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1069
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1070
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1070
	<b>Name</b> <Nm>	[1..1]	Text		1071
	<b>Address</b> <Adr>	[1..1]	±		1071
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1071
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1072
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1072
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1072
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1072
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1073
	<b>Identification</b> <Id>	[1..1]	Text		1073
	<b>Servicer</b> <Svcr>	[0..1]			1073
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1073
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1073
	<b>ProtectedAccountFrom</b> <PrctdAcctFr>	[0..1]	±		1074
	<b>AccountTo</b> <AcctTo>	[0..*]			1074
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1075
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1075
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1076
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1076
	<b>Name</b> <Nm>	[1..1]	Text		1077
	<b>Address</b> <Adr>	[1..1]	±		1077
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1077

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1078
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1078
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1078
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1078
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1079
	<b>Identification</b> <Id>	[1..1]	Text		1079
	<b>Servicer</b> <Svcr>	[0..1]			1079
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1079
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1079
	<b>ProtectedAccountTo</b> <PrctdAcctTo>	[0..1]	±		1080
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1080
	<b>DetailedRequestedAmount</b> <DtlReqdAmt>	[0..1]			1080
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1081
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1081
	<b>Fees</b> <Fees>	[0..*]			1081
	<b>Amount</b> <Amt>	[1..1]	Amount		1082
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1082
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1082
	<b>Label</b> <Lbl>	[0..1]	Text		1082
	<b>Donation</b> <Dontn>	[0..*]			1082
	<b>Amount</b> <Amt>	[1..1]	Amount		1083
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1083
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1083
	<b>Label</b> <Lbl>	[0..1]	Text		1083
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1083
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1084
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1084
	<b>StartDate</b> <StartDt>	[1..1]	Date		1084
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1084
	<b>EndDate</b> <EndDt>	[1..1]	Date		1084
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1084

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1085
	<b>RequestedReceipt</b> <ReqdRct>	[0..1]	Indicator		1085
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1085

#### 29.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see ["TransactionIdentifier1"](#) on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 29.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* ["Max35Text"](#) on page 1317

#### 29.4.3.3.3 CreditorLabel <CdtrLbl>

*Presence:* [0..1]

*Definition:* Description of the transfer for the creditor.

*Datatype:* ["Max35Text"](#) on page 1317

#### 29.4.3.3.4 DebtorLabel <DbtrLbl>

*Presence:* [0..1]

*Definition:* Description of the transfer for the debtor.

*Datatype:* ["Max35Text"](#) on page 1317

#### 29.4.3.3.5 PaymentReference <PmtRef>

*Presence:* [0..1]

*Definition:* Reference of the payment.

*Datatype:* ["Max35Text"](#) on page 1317

#### 29.4.3.3.6 AccountFrom <AcctFr>

*Presence:* [0..1]

*Definition:* Information about the source account of the transfer.

**AccountFrom** <AcctFr> contains the following **CardAccount7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1069
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1069
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1070
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1070
	<b>Name</b> <Nm>	[1..1]	Text		1071
	<b>Address</b> <Adr>	[1..1]	±		1071
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1071
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1072
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1072
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1072
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1072
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1073
	<b>Identification</b> <Id>	[1..1]	Text		1073
	<b>Servicer</b> <Svcr>	[0..1]			1073
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1073
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1073

#### 29.4.3.3.6.1 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 29.4.3.3.6.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 29.4.3.3.6.3 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.6.4 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name &lt;Nm&gt;</b>	[1..1]	Text		1071
	<b>Address &lt;Adr&gt;</b>	[1..1]	±		1071

#### 29.4.3.3.6.4.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.6.4.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "PostalAddress1" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

#### 29.4.3.3.6.5 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.3.6.6 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1072
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1072
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1072
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1073
	<b>Identification</b> <Id>	[1..1]	Text		1073

##### 29.4.3.3.6.6.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

##### 29.4.3.3.6.6.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

##### 29.4.3.3.6.6.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313



**29.4.3.3.6.6.4 DomesticAccount <DmstAcct>***Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		1073

**29.4.3.3.6.6.4.1 Identification <Id>***Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**29.4.3.3.6.7 Servicer <Svcr>***Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	1073
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		1073

**29.4.3.3.6.7.1 AnyBIC <AnyBIC>***Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**29.4.3.3.6.7.2 ProprietaryIdentification <PrtryId>***Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 29.4.3.3.7 ProtectedAccountFrom <PrtctdAcctFr>

*Presence:* [0..1]

*Definition:* Encryption of the source account information.

**ProtectedAccountFrom <PrtctdAcctFr>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 29.4.3.3.8 AccountTo <AcctTo>

*Presence:* [0..\*]

*Definition:* Information about the destination account of the transfer.

**AccountTo <AcctTo>** contains the following **CardAccount7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SelectionMethod</b> <SelctnMtd>	[0..1]	CodeSet		1075
	<b>SelectedAccountType</b> <SelctdAcctTp>	[0..1]	CodeSet		1075
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1076
	<b>AccountOwner</b> <AcctOwnr>	[0..1]			1076
	<b>Name</b> <Nm>	[1..1]	Text		1077
	<b>Address</b> <Adr>	[1..1]	±		1077
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1077
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1078
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1078
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1078
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1078
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1079
	<b>Identification</b> <Id>	[1..1]	Text		1079
	<b>Servicer</b> <Svcr>	[0..1]			1079
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1079
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1079

#### 29.4.3.3.8.1 SelectionMethod <SelctnMtd>

*Presence:* [0..1]

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Datatype:* "AccountChoiceMethod1Code" on page 1271

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

#### 29.4.3.3.8.2 SelectedAccountType <SelctdAcctTp>

*Presence:* [0..1]

*Definition:* Type of cardholder account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 29.4.3.3.8.3 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.8.4 AccountOwner <AcctOwnr>

*Presence:* [0..1]

*Definition:* Party that legally owns the account.

**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Name &lt;Nm&gt;</b>	[1..1]	Text		1077
	<b>Address &lt;Adr&gt;</b>	[1..1]	±		1077

#### 29.4.3.3.8.4.1 Name <Nm>

*Presence:* [1..1]

*Definition:* Name by which a party is known and is usually used to identify that identity.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.8.4.2 Address <Adr>

*Presence:* [1..1]

*Definition:* Postal address of a party.

**Address <Adr>** contains the following elements (see "[PostalAddress1](#)" on page 1267 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

#### 29.4.3.3.8.5 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* [C1 "ActiveCurrency"](#)

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.3.8.6 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1078
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1078
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1078
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1079
	<b>Identification</b> <Id>	[1..1]	Text		1079

##### 29.4.3.3.8.6.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

##### 29.4.3.3.8.6.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

##### 29.4.3.3.8.6.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

**29.4.3.3.8.6.4 DomesticAccount <DmstAcct>***Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		1079

**29.4.3.3.8.6.4.1 Identification <Id>***Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**29.4.3.3.8.7 Servicer <Svcr>***Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	1079
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		1079

**29.4.3.3.8.7.1 AnyBIC <AnyBIC>***Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**29.4.3.3.8.7.2 ProprietaryIdentification <PrtryId>***Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 29.4.3.3.9 ProtectedAccountTo <PrctcdAcctTo>

*Presence:* [0..1]

*Definition:* Encryption of the destination account information.

**ProtectedAccountTo <PrctcdAcctTo>** contains the following elements (see "[ContentInformationType10](#)" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 29.4.3.3.10 TotalRequestedAmount <TtlReqdAmt>

*Presence:* [0..1]

*Definition:* Amount of the transaction to be authorised.

*Datatype:* "[ImpliedCurrencyAndAmount](#)" on page 1269

#### 29.4.3.3.11 DetailedRequestedAmount <DtldReqdAmt>

*Presence:* [0..1]

*Definition:* Details of the transfer transaction amounts.



**DetailedRequestedAmount <DtldReqdAmt>** contains the following **DetailedAmount17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1081
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1081
	<b>Fees</b> <Fees>	[0..*]			1081
	<b>Amount</b> <Amt>	[1..1]	Amount		1082
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1082
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1082
	<b>Label</b> <Labl>	[0..1]	Text		1082
	<b>Donation</b> <Dontn>	[0..*]			1082
	<b>Amount</b> <Amt>	[1..1]	Amount		1083
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1083
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1083
	<b>Label</b> <Labl>	[0..1]	Text		1083

#### 29.4.3.3.11.1 AmountToTransfer <AmtToTrf>

*Presence:* [1..1]

*Definition:* Amount to be transferred from the source account to the destination account.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 29.4.3.3.11.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount to be transferred.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.3.11.3 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Transfer fees, accepted by the customer.

**Fees <Fees>** contains the following **DetailedAmount18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1082
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1082
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1082
	<b>Label</b> <Labl>	[0..1]	Text		1082

#### 29.4.3.3.11.3.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 29.4.3.3.11.3.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.3.11.3.3 ChargeAccountTo <ChrgAcctTo>

*Presence:* [0..1]

*Definition:* True if amount charged to the source account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 29.4.3.3.11.3.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.11.4 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.

**Donation <Dontn>** contains the following **DetailedAmount18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1083
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1083
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1083
	<b>Label</b> <Labl>	[0..1]	Text		1083

#### 29.4.3.3.11.4.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 29.4.3.3.11.4.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 29.4.3.3.11.4.3 ChargeAccountTo <ChrgAcctTo>

*Presence:* [0..1]

*Definition:* True if amount charged to the source account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 29.4.3.3.11.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* "Max70Text" on page 1318

#### 29.4.3.3.12 RequestedExecutionDate <ReqdExctnDt>

*Presence:* [0..1]

*Definition:* Requested date of the execution of the transfer.

*Datatype:* "ISODate" on page 1312

#### 29.4.3.3.13 InstantTransferProgram <InstntTrfPrgm>

*Presence:* [0..1]

*Definition:* Identifies the instant transfer program.

*Datatype:* "Max35Text" on page 1317

#### 29.4.3.3.14 RecurringTransfer <RcrngTrf>

*Presence:* [0..1]

*Definition:* Information for recurring transfer or standing orders.

**RecurringTransfer <RcrngTrf>** contains the following **RecurringTransaction3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StartDate</b> <StartDt>	[1..1]	Date		1084
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1084
	<b>EndDate</b> <EndDt>	[1..1]	Date		1084
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1084
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1085

##### 29.4.3.3.14.1 StartDate <StartDt>

*Presence:* [1..1]

*Definition:* Date of first transfer.

*Datatype:* "ISODate" on page 1312

##### 29.4.3.3.14.2 NumberOfOccurrences <NbOfOcrncs>

*Presence:* [0..1]

*Definition:* Number of transfers to perform.

*Datatype:* "Number" on page 1314

##### 29.4.3.3.14.3 EndDate <EndDt>

*Presence:* [1..1]

*Definition:* Date of last transfer.

*Datatype:* "ISODate" on page 1312

##### 29.4.3.3.14.4 PeriodUnit <PrdUnit>

*Presence:* [0..1]

*Definition:* Period of the recurring transfer.

*Datatype:* "Frequency3Code" on page 1298

CodeName	Name	Definition
YEAR	Annual	Event takes place every year or once a year.

CodeName	Name	Definition
MNTH	Monthly	Event takes place every month or once a month.
QURT	Quarterly	Event takes place every three months or four times a year.
MIAN	SemiAnnual	Event takes place every six months or two times a year.
WEEK	Weekly	Event takes place once a week.
DAIL	Daily	Event takes place every day.
TEND	TenDays	Event takes place every ten business days.

#### 29.4.3.3.14.5 IntervalDay <IntrvlDay>

*Presence:* [0..1]

*Definition:* Day of the period when the transfer will be performed.

*Datatype:* "Number" on page 1314

#### 29.4.3.3.15 RequestedReceipt <ReqdRct>

*Presence:* [0..1]

*Definition:* True if the customer has requested a receipt.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 29.4.3.3.16 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

### 29.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1086
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1086

### 29.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 29.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

## **30      catp.017.001.01          ATMTransferResponseV01**

### **30.1    MessageDefinition Functionality**

The ATMTransferResponse message is sent by an acquirer or its agent to inform the ATM of the approval or decline of the transfer transaction.

Outline

The ATMTransferResponseV01 MessageDefinition is composed of 4 MessageBuildingBlocks:

- A. Header  
Information related to the protocol management on a segment of the path from the ATM to the acquirer.
- B. ProtectedATMTransferResponse  
Encrypted body of the message.
- C. ATMTransferResponse  
Information related to the response of an ATM transfer from an ATM manager.
- D. SecurityTrailer  
Trailer of the message containing a MAC.

## 30.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <ATMTrfRspn>	[1..1]			
	<b>Header</b> <Hdr>	[1..1]			1094
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1095
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1095
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1097
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1097
	<b>ProtocolVersion</b> <PrctlVrsn>	[1..1]	Text		1097
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1097
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1097
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1097
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1098
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		1098
	<b>Traceability</b> <Tracblt>	[0..*]			1098
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1098
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1098
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		1099
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1099
	<b>ProtectedATMTransferResponse</b> <PrctcdATMTrfRspn>	[0..1]	±		1099
	<b>ATMTransferResponse</b> <ATMTrfRspn>	[0..1]			1099
	<b>Environment</b> <Envt>	[1..1]			1105
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1106
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		1107
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1107
	<b>ATM</b> <ATM>	[1..1]	±		1107
	<b>Customer</b> <Cstmr>	[1..1]			1108
	<b>Profile</b> <Prfl>	[0..1]			1109
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1109
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		1109
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1109
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1110



Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1110
	<b>Result</b> <RsIt>	[0..1]	CodeSet		1111
	<b>AdditionalResult</b> <AddtlRsIt>	[0..1]	Text		1111
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1111
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		1111
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1111
	<b>PAN</b> <PAN>	[0..1]	Text		1112
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1112
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1112
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1112
	<b>Track1</b> <Trck1>	[0..1]	Text		1112
	<b>Track2</b> <Trck2>	[0..1]	Text		1113
	<b>Track3</b> <Trck3>	[0..1]	Text		1113
	<b>Context</b> <Cntxt>	[1..1]			1113
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1113
	<b>Service</b> <Svc>	[1..1]			1113
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1114
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1114
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1114
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1114
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1114
	<b>Transaction</b> <Tx>	[1..1]			1115
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1120
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		1120
	<b>CreditorLabel</b> <CdtrLbl>	[0..1]	Text		1120
	<b>DebtorLabel</b> <DbtrLbl>	[0..1]	Text		1120
	<b>TransferIdentifier</b> <Trfldr>	[0..1]	Text		1120
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1121
	<b>TransactionResponse</b> <TxRspn>	[1..1]			1121
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1121
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1121

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1125
	<b>Action</b> <Actn>	[0..*]			1125
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1125
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1126
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1126
	<b>Message</b> <Msg>	[0..1]	Text		1127
	<b>Reference</b> <Ref>	[0..1]	Text		1127
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1127
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1127
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1127
	<b>AccountFrom</b> <AcctFr>	[0..1]			1129
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1130
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1130
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1131
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1131
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1131
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1131
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1132
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1132
	<b>Identification</b> <Id>	[1..1]	Text		1132
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1132
	<b>Servicer</b> <Svcr>	[0..1]			1132
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1133
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1133
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1133
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1133
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1134
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1134
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1134
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Date</b> <Dt>	[0..1]	Date		1135
	<b>ProtectedAccountFrom</b> <PrctcdAcctFr>	[0..1]	±		1135
	<b>AccountTo</b> <AcctTo>	[0..*]			1135
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1136
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1137
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1137
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			1138
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1138
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1138
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1138
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1139
	<b>Identification</b> <Id>	[1..1]	Text		1139
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1139
	<b>Servicer</b> <Svcr>	[0..1]			1139
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1139
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1140
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1140
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1140
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1140
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1141
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1141
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1141
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>ProtectedAccountTo</b> <PrctcdAcctTo>	[0..1]	±		1142
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		1142
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1142
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			1142
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1143
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1143
	<b>Fees</b> <Fees>	[0..*]			1143

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1144
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1144
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1144
	<b>Label</b> <Labl>	[0..1]	Text		1144
	<b>Donation</b> <Dontn>	[0..*]			1144
	<b>Amount</b> <Amt>	[1..1]	Amount		1145
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1145
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1145
	<b>Label</b> <Labl>	[0..1]	Text		1145
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]			1145
	<b>Amount</b> <Amt>	[1..1]	Amount		1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1146
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1146
	<b>Label</b> <Labl>	[0..1]	Text		1146
	<b>Limits</b> <Lmts>	[0..1]			1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1147
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		1147
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		1147
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			1147
	<b>Type</b> <Tp>	[1..1]	Text		1148
	<b>Amount</b> <Amt>	[1..1]	Amount		1148
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1148
	<b>Label</b> <Labl>	[0..1]	Text		1148
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1148
	<b>ProposedExecutionDate</b> <PropsdExctnDt>	[0..1]	Date		1149
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1149
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1149
	<b>StartDate</b> <StartDt>	[1..1]	Date		1149
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1149
	<b>EndDate</b> <EndDt>	[1..1]	Date		1149
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1149

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1150
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			1150
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		1151
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			1152
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1152
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1152
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1156
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			1156
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		1156
	<b>Codification</b> <Cdfctn>	[0..1]	Text		1156
	<b>Response</b> <Rspn>	[1..1]	Text		1157
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		1157
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1157
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		1157
	<b>Action</b> <Actn>	[0..*]			1157
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1157
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1158
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1159
	<b>ICCRelatedData</b> <ICCRltdData>	[0..1]	Binary		1161
	<b>Command</b> <Cmd>	[0..*]			1161
	<b>Type</b> <Tp>	[1..1]	CodeSet		1161
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1162
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1162
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1162
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1163
	<b>SecurityTrailer</b> <SctyTrlr>	[0..1]			1163

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1163
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1164

## 30.3 Constraints

### C1 ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### C3 Country

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### C5 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

## 30.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 30.4.1 Header <Hdr>

*Presence:* [1..1]

*Definition:* Information related to the protocol management on a segment of the path from the ATM to the acquirer.

**Header <Hdr>** contains the following **Header31** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>MessageFunction</b> <MsgFctn>	[1..1]			1095
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1095
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1097
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1097
	<b>ProtocolVersion</b> <PrtcolVrsn>	[1..1]	Text		1097
	<b>ExchangeIdentification</b> <XchgId>	[1..1]	Text		1097
	<b>CreationDateTime</b> <CreDtTm>	[1..1]	DateTime		1097
	<b>InitiatingParty</b> <InitgPty>	[1..1]	Text		1097
	<b>RecipientParty</b> <RcptPty>	[0..1]	Text		1098
	<b>ProcessState</b> <PrcStat>	[0..1]	Text		1098
	<b>Traceability</b> <Tracblt>	[0..*]			1098
	<b>RelayIdentification</b> <RlayId>	[1..1]	±		1098
	<b>SequenceNumber</b> <SeqNb>	[0..1]	Text		1098
	<b>TraceDateTimeln</b> <TracDtTmIn>	[1..1]	DateTime		1099
	<b>TraceDateTimeOut</b> <TracDtTmOut>	[1..1]	DateTime		1099

#### 30.4.1.1 MessageFunction <MsgFctn>

*Presence:* [1..1]

*Definition:* Identifies the type of process related to the message.

**MessageFunction <MsgFctn>** contains the following **ATMMessageFunction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Function</b> <Fctn>	[1..1]	CodeSet		1095
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1097
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1097

##### 30.4.1.1.1 Function <Fctn>

*Presence:* [1..1]

*Definition:* Type of requested function.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.

CodeName	Name	Definition
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.



CodeName	Name	Definition
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 30.4.1.1.2 ATMSERVICECODE <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 30.4.1.1.3 HostSERVICECODE <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM manager host.

*Datatype:* "Max35Text" on page 1317

#### 30.4.1.2 ProtocolVersion <PrtcolVrsn>

*Presence:* [1..1]

*Definition:* Version of the ATM protocol specifications.

*Datatype:* "Max6Text" on page 1318

#### 30.4.1.3 ExchangeIdentification <XchgId>

*Presence:* [1..1]

*Definition:* Unique identification of an exchange occurrence.

*Datatype:* "Max3NumericText" on page 1317

#### 30.4.1.4 CreationDateTime <CreDtTm>

*Presence:* [1..1]

*Definition:* Date and time at which the message was created.

*Datatype:* "ISODateTime" on page 1312

#### 30.4.1.5 InitiatingParty <InitgPty>

*Presence:* [1..1]

*Definition:* Unique identification of the partner that has initiated the exchange.

Datatype: ["Max35Text" on page 1317](#)

#### 30.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

Definition: Unique identification of the partner that is the recipient of the message exchange.

Datatype: ["Max35Text" on page 1317](#)

#### 30.4.1.7 ProcessState <PrcStat>

Presence: [0..1]

Definition: State of the sender of the message inside the process flow.

Datatype: ["Max35Text" on page 1317](#)

#### 30.4.1.8 Traceability <Tracblt>

Presence: [0..\*]

Definition: Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following Traceability4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		1098
	SequenceNumber <SeqNb>	[0..1]	Text		1098
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		1099
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		1099

##### 30.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see ["GenericIdentification77" on page 1229](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

##### 30.4.1.8.2 SequenceNumber <SeqNb>

Presence: [0..1]

*Definition:* Identification of the relay node in the path, to enable identification of several hosts in parallel.

*Datatype:* ["Max35Text" on page 1317](#)

#### 30.4.1.8.3 TraceDateTimeln <TracDtTmln>

*Presence:* [1..1]

*Definition:* Date and time of incoming data exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

#### 30.4.1.8.4 TraceDateTimeOut <TracDtTmOut>

*Presence:* [1..1]

*Definition:* Date and time of the outgoing exchange for relaying or processing.

*Datatype:* ["ISODateTime" on page 1312](#)

### 30.4.2 ProtectedATMTransferResponse <PrtctdATMTrfRspn>

*Presence:* [0..1]

*Definition:* Encrypted body of the message.

**ProtectedATMTransferResponse <PrtctdATMTrfRspn>** contains the following elements (see ["ContentInformationType10" on page 1233](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

### 30.4.3 ATMTransferResponse <ATMTrfRspn>

*Presence:* [0..1]

*Definition:* Information related to the response of an ATM transfer from an ATM manager.

**ATMTransferResponse <ATMTrfRspn>** contains the following **ATMTransferResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Environment</b> <Envt>	[1..1]			1105
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1106
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		1107
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1107
	<b>ATM</b> <ATM>	[1..1]	±		1107
	<b>Customer</b> <Cstmr>	[1..1]			1108
	<b>Profile</b> <Prfl>	[0..1]			1109
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1109
	<b>CustomerIdentification</b> <Cstmrlid>	[0..1]	Text		1109
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1109
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1110
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1110
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1111
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1111
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1111
	<b>ProtectedCardData</b> <PrtctdCardData>	[0..1]	±		1111
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1111
	<b>PAN</b> <PAN>	[0..1]	Text		1112
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1112
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1112
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1112
	<b>Track1</b> <Trck1>	[0..1]	Text		1112
	<b>Track2</b> <Trck2>	[0..1]	Text		1113
	<b>Track3</b> <Trck3>	[0..1]	Text		1113
	<b>Context</b> <Cntxt>	[1..1]			1113
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1113
	<b>Service</b> <Svc>	[1..1]			1113
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1114
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1114
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1114
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1114

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1114
	<b>Transaction</b> <Tx>	[1..1]			1115
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1120
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		1120
	<b>CreditorLabel</b> <CdtrLbl>	[0..1]	Text		1120
	<b>DebtorLabel</b> <DbtrLbl>	[0..1]	Text		1120
	<b>TransferIdentifier</b> <Trfldr>	[0..1]	Text		1120
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1121
	<b>TransactionResponse</b> <TxRspn>	[1..1]			1121
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1121
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1121
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1125
	<b>Action</b> <Actn>	[0..*]			1125
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1125
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1126
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1126
	<b>Message</b> <Msg>	[0..1]	Text		1127
	<b>Reference</b> <Ref>	[0..1]	Text		1127
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1127
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1127
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1127
	<b>AccountFrom</b> <AcctFr>	[0..1]			1129
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1130
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1130
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1131
	<b>AccountIdentifier</b> <Acctldr>	[0..1]			1131
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1131
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1131
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1132
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1132
	<b>Identification</b> <Id>	[1..1]	Text		1132

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1132
	<b>Servicer</b> <Svcr>	[0..1]			1132
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1133
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1133
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1133
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1133
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1134
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1134
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1134
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1135
	<b>ProtectedAccountFrom</b> <PrctdAcctFr>	[0..1]	±		1135
	<b>AccountTo</b> <AcctTo>	[0..*]			1135
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1136
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1137
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1137
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1138
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1138
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1138
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1138
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1139
	<b>Identification</b> <Id>	[1..1]	Text		1139
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1139
	<b>Servicer</b> <Svcr>	[0..1]			1139
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1139
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1140
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1140
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1140
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1140
	<b>Date</b> <Dt>	[0..1]	Date		1141

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>BalanceAfter</b> <BalAftr>	[0..1]			1141
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1141
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1141
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>ProtectedAccountTo</b> <PrtctdAcctTo>	[0..1]	±		1142
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		1142
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1142
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			1142
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1143
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1143
	<b>Fees</b> <Fees>	[0..*]			1143
	<b>Amount</b> <Amt>	[1..1]	Amount		1144
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1144
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1144
	<b>Label</b> <Labl>	[0..1]	Text		1144
	<b>Donation</b> <Dontn>	[0..*]			1144
	<b>Amount</b> <Amt>	[1..1]	Amount		1145
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1145
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1145
	<b>Label</b> <Labl>	[0..1]	Text		1145
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]			1145
	<b>Amount</b> <Amt>	[1..1]	Amount		1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1146
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1146
	<b>Label</b> <Labl>	[0..1]	Text		1146
	<b>Limits</b> <Lmts>	[0..1]			1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1147
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		1147
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		1147
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			1147
	<b>Type</b> <Tp>	[1..1]	Text		1148

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1148
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1148
	<b>Label</b> <Labl>	[0..1]	Text		1148
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1148
	<b>ProposedExecutionDate</b> <PropsdExctnDt>	[0..1]	Date		1149
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1149
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1149
	<b>StartDate</b> <StartDt>	[1..1]	Date		1149
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1149
	<b>EndDate</b> <EndDt>	[1..1]	Date		1149
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1149
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1150
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			1150
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		1151
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			1152
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1152
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1152
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1156
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			1156
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		1156
	<b>Codification</b> <Cdfctn>	[0..1]	Text		1156
	<b>Response</b> <Rspn>	[1..1]	Text		1157
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		1157
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1157
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		1157
	<b>Action</b> <Actn>	[0..*]			1157
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1157
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1158
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1159
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1161
	<b>Command</b> <Cmd>	[0..*]			1161
	<b>Type</b> <Tp>	[1..1]	CodeSet		1161
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1162
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1162
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1162
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1163

### 30.4.3.1 Environment <Envt>

*Presence:* [1..1]

*Definition:* Environment of the transaction.

**Environment <Envt>** contains the following **ATMEnvironment12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Acquirer</b> <Acqrr>	[0..1]	±		1106
	<b>ATMManager</b> <ATMMgr>	[0..1]	±		1107
	<b>HostingEntity</b> <HstgNtty>	[0..1]	±		1107
	<b>ATM</b> <ATM>	[1..1]	±		1107
	<b>Customer</b> <Cstmr>	[1..1]			1108
	<b>Profile</b> <Prfl>	[0..1]			1109
	<b>ProfileReference</b> <PrflRef>	[0..1]	Text		1109
	<b>CustomerIdentification</b> <CstmrlId>	[0..1]	Text		1109
	<b>AuthenticationResult</b> <AuthntcnRslt>	[0..*]			1109
	<b>Method</b> <Mtd>	[1..1]	CodeSet		1110
	<b>VerificationEntity</b> <VrfctnNtty>	[0..1]	CodeSet		1110
	<b>Result</b> <Rslt>	[0..1]	CodeSet		1111
	<b>AdditionalResult</b> <AddtlRslt>	[0..1]	Text		1111
	<b>AuthenticationToken</b> <AuthntcnTkn>	[0..1]	Binary		1111
	<b>ProtectedCardData</b> <PrctcdCardData>	[0..1]	±		1111
	<b>PlainCardData</b> <PlainCardData>	[0..1]			1111
	<b>PAN</b> <PAN>	[0..1]	Text		1112
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1112
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1112
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1112
	<b>Track1</b> <Trck1>	[0..1]	Text		1112
	<b>Track2</b> <Trck2>	[0..1]	Text		1113
	<b>Track3</b> <Trck3>	[0..1]	Text		1113

#### 30.4.3.1.1 Acquirer <Acqrr>

*Presence:* [0..1]

*Definition:* Acquirer of the transactions, in charge of the funds settlement with the issuer.

**Acquirer <Acqrr>** contains the following elements (see "Acquirer7" on page 1166 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <AcqrglInstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

**30.4.3.1.2 ATMMManager <ATMMMgr>***Presence:* [0..1]*Definition:* Institution in charge of managing the ATM.**ATMMManager <ATMMMgr>** contains the following elements (see "[Acquirer8](#)" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

**30.4.3.1.3 HostingEntity <HstgNtty>***Presence:* [0..1]*Definition:* Entity hosting the ATM terminal.**HostingEntity <HstgNtty>** contains the following elements (see "[TerminalHosting1](#)" on page 1236 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

**30.4.3.1.4 ATM <ATM>***Presence:* [1..1]*Definition:* ATM information.

**ATM <ATM>** contains the following elements (see "AutomatedTellerMachine2" on page 1175 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 30.4.3.1.5 Customer <Cstmr>

*Presence:* [1..1]

*Definition:* Customer involved in the transaction.

**Customer <Cstmr>** contains the following **ATMCustomer5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Profile &lt;Prfl&gt;</b>	[0..1]			1109
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		1109
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		1109
	<b>AuthenticationResult &lt;AuthntcnRslt&gt;</b>	[0..*]			1109
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		1110
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		1110
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		1111
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		1111
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		1111

#### 30.4.3.1.5.1 Profile <Prfl>

*Presence:* [0..1]

*Definition:* Profile of the customer selected to perform the transaction.

**Profile <Prfl>** contains the following **ATMCustomerProfile2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ProfileReference &lt;PrflRef&gt;</b>	[0..1]	Text		1109
	<b>CustomerIdentification &lt;CstmrlId&gt;</b>	[0..1]	Text		1109

##### 30.4.3.1.5.1.1 ProfileReference <PrflRef>

*Presence:* [0..1]

*Definition:* Reference of the customer profile.

*Datatype:* "Max35Text" on page 1317

##### 30.4.3.1.5.1.2 CustomerIdentification <CstmrlId>

*Presence:* [0..1]

*Definition:* Identification of the customer for the bank.

*Datatype:* "Max35Text" on page 1317

##### 30.4.3.1.5.2 AuthenticationResult <AuthntcnRslt>

*Presence:* [0..\*]

*Definition:* Result of the customer authentication for this transaction.

**AuthenticationResult <AuthntcnRslt>** contains the following **TransactionVerificationResult5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Method &lt;Mtd&gt;</b>	[1..1]	CodeSet		1110
	<b>VerificationEntity &lt;VrfctnNtty&gt;</b>	[0..1]	CodeSet		1110
	<b>Result &lt;Rslt&gt;</b>	[0..1]	CodeSet		1111
	<b>AdditionalResult &lt;AddtlRslt&gt;</b>	[0..1]	Text		1111
	<b>AuthenticationToken &lt;AuthntcnTkn&gt;</b>	[0..1]	Binary		1111

#### 30.4.3.1.5.2.1 Method <Mtd>

*Presence:* [1..1]

*Definition:* Method of verification that has been performed.

*Datatype:* "AuthenticationMethod7Code" on page 1289

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

#### 30.4.3.1.5.2.2 VerificationEntity <VrfctnNtty>

*Presence:* [0..1]

*Definition:* Entity or device that has performed the verification.

*Datatype:* "AuthenticationEntity2Code" on page 1289

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).

CodeName	Name	Definition
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

#### 30.4.3.1.5.2.3 Result <Rslt>

*Presence:* [0..1]

*Definition:* Result of the verification.

*Datatype:* "Verification1Code" on page 1311

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

#### 30.4.3.1.5.2.4 AdditionalResult <AddtlRslt>

*Presence:* [0..1]

*Definition:* Additional result of the verification.

*Datatype:* "Max500Text" on page 1318

#### 30.4.3.1.5.2.5 AuthenticationToken <AuthntcnTkn>

*Presence:* [0..1]

*Definition:* Token provided to the ATM for further proof of authentication.

*Datatype:* "Max140Binary" on page 1270

#### 30.4.3.1.6 ProtectedCardData <PrtctdCardData>

*Presence:* [0..1]

*Definition:* Encryption of the sensitive card data.

**ProtectedCardData <PrtctdCardData>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 30.4.3.1.7 PlainCardData <PlainCardData>

*Presence:* [0..1]

*Definition:* Sensitive data associated with the card performing the transaction.

**PlainCardData** <PlainCardData> contains the following **PlainCardData19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PAN</b> <PAN>	[0..1]	Text		1112
	<b>CardSequenceNumber</b> <CardSeqNb>	[0..1]	Text		1112
	<b>EffectiveDate</b> <FctvDt>	[0..1]	Text		1112
	<b>ExpiryDate</b> <XpryDt>	[0..1]	Text		1112
	<b>Track1</b> <Trck1>	[0..1]	Text		1112
	<b>Track2</b> <Trck2>	[0..1]	Text		1113
	<b>Track3</b> <Trck3>	[0..1]	Text		1113

#### 30.4.3.1.7.1 PAN <PAN>

*Presence:* [0..1]

*Definition:* Primary Account Number (PAN) of the card.

*Datatype:* "Min8Max28NumericText" on page 1319

#### 30.4.3.1.7.2 CardSequenceNumber <CardSeqNb>

*Presence:* [0..1]

*Definition:* Identify a card or a payment token inside a set of cards with the same PAN.

*Datatype:* "Min2Max3NumericText" on page 1319

#### 30.4.3.1.7.3 EffectiveDate <FctvDt>

*Presence:* [0..1]

*Definition:* Date from which the card can be used, expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 30.4.3.1.7.4 ExpiryDate <XpryDt>

*Presence:* [0..1]

*Definition:* Expiry date of the card expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

*Datatype:* "Max10Text" on page 1316

#### 30.4.3.1.7.5 Track1 <Trck1>

*Presence:* [0..1]

*Definition:* ISO track 1 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The format is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max76Text" on page 1318



**30.4.3.1.7.6 Track2 <Trck2>**

*Presence:* [0..1]

*Definition:* ISO track 2 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 7813, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max37Text" on page 1317

**30.4.3.1.7.7 Track3 <Trck3>**

*Presence:* [0..1]

*Definition:* ISO track 3 issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The content is conform to ISO 4909, removing beginning and ending sentinels and longitudinal redundancy check characters.

*Datatype:* "Max104Text" on page 1315

**30.4.3.2 Context <Cntxt>**

*Presence:* [1..1]

*Definition:* Context in which the transfer is performed.

**Context <Cntxt>** contains the following **ATMContext19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SessionReference</b> <SsnRef>	[0..1]	Text		1113
	<b>Service</b> <Svc>	[1..1]			1113
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1114
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1114
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1114
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1114
	<b>ServiceVariantIdentification</b> <SvcVarntId>	[0..*]	Text		1114

**30.4.3.2.1 SessionReference <SsnRef>**

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the transfer is performed.

*Datatype:* "Max35Text" on page 1317

**30.4.3.2.2 Service <Svc>**

*Presence:* [1..1]

*Definition:* Fund transfer service requested by the ATM inside the session.

**Service <Svc>** contains the following **ATMService23** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ServiceReference</b> <SvcRef>	[0..1]	Text		1114
	<b>ATMServiceCode</b> <ATMSvcCd>	[0..1]	Text		1114
	<b>HostServiceCode</b> <HstSvcCd>	[0..1]	Text		1114
	<b>ServiceType</b> <SvcTp>	[1..1]	CodeSet		1114
	<b>ServiceVariantIdentification</b> <SvcVarntld>	[0..*]	Text		1114

#### 30.4.3.2.2.1 ServiceReference <SvcRef>

*Presence:* [0..1]

*Definition:* Unique identification of the customer session in which the transfer is performed.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.2.2.2 ATMServiceCode <ATMSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the ATM.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.2.2.3 HostServiceCode <HstSvcCd>

*Presence:* [0..1]

*Definition:* Codification of the type of service for the host.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.2.2.4 ServiceType <SvcTp>

*Presence:* [1..1]

*Definition:* Describes the type of fund transfer selected by the customer or the ATM.

*Datatype:* "ATMServiceType9Code" on page 1287

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.

#### 30.4.3.2.2.5 ServiceVariantIdentification <SvcVarntld>

*Presence:* [0..\*]

*Definition:* Identification of the variant of the service.

*Datatype:* "Max35Text" on page 1317

### 30.4.3.3 Transaction <Tx>

*Presence:* [1..1]

*Definition:* Transfer information for the transaction.

**Transaction <Tx>** contains the following **ATMTransaction24** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>TransactionIdentification</b> <TxId>	[1..1]	±		1120
	<b>ReconciliationIdentification</b> <RcncltnId>	[0..1]	Text		1120
	<b>CreditorLabel</b> <CdtrLbl>	[0..1]	Text		1120
	<b>DebtorLabel</b> <DbtrLbl>	[0..1]	Text		1120
	<b>TransferIdentifier</b> <TrfIdr>	[0..1]	Text		1120
	<b>PaymentReference</b> <PmtRef>	[0..1]	Text		1121
	<b>TransactionResponse</b> <TxRspn>	[1..1]			1121
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1121
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1121
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1125
	<b>Action</b> <Actn>	[0..*]			1125
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1125
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1126
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1126
	<b>Message</b> <Msg>	[0..1]	Text		1127
	<b>Reference</b> <Ref>	[0..1]	Text		1127
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1127
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1127
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1127
	<b>AccountFrom</b> <AcctFr>	[0..1]			1129
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1130
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1130
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1131
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1131
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1131
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1131
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1132
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1132
	<b>Identification</b> <Id>	[1..1]	Text		1132
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1132
	<b>Servicer</b> <Svcr>	[0..1]			1132

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1133
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1133
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1133
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1133
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1134
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1134
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1134
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1135
	<b>ProtectedAccountFrom</b> <PrtctdAcctFr>	[0..1]	±		1135
	<b>AccountTo</b> <AcctTo>	[0..*]			1135
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1136
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1137
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1137
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1138
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1138
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1138
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1138
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1139
	<b>Identification</b> <Id>	[1..1]	Text		1139
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1139
	<b>Servicer</b> <Svcr>	[0..1]			1139
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1139
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1140
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1140
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1140
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1140
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1141
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1141

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1141
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>ProtectedAccountTo</b> <PrtctdAcctTo>	[0..1]	±		1142
	<b>TotalAuthorisedAmount</b> <TtlAuthrsdAmt>	[1..1]	±		1142
	<b>TotalRequestedAmount</b> <TtlReqdAmt>	[0..1]	Amount		1142
	<b>DetailedRequestedAmount</b> <DtldReqdAmt>	[0..1]			1142
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1143
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1143
	<b>Fees</b> <Fees>	[0..*]			1143
	<b>Amount</b> <Amt>	[1..1]	Amount		1144
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1144
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1144
	<b>Label</b> <Labl>	[0..1]	Text		1144
	<b>Donation</b> <Dontn>	[0..*]			1144
	<b>Amount</b> <Amt>	[1..1]	Amount		1145
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1145
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1145
	<b>Label</b> <Labl>	[0..1]	Text		1145
	<b>AdditionalCharge</b> <AddtlChrg>	[0..*]			1145
	<b>Amount</b> <Amt>	[1..1]	Amount		1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1146
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1146
	<b>Label</b> <Labl>	[0..1]	Text		1146
	<b>Limits</b> <Lmts>	[0..1]			1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1147
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		1147
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		1147
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			1147
	<b>Type</b> <Tp>	[1..1]	Text		1148
	<b>Amount</b> <Amt>	[1..1]	Amount		1148
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1148

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Label</b> <Labl>	[0..1]	Text		1148
	<b>RequestedExecutionDate</b> <ReqdExctnDt>	[0..1]	Date		1148
	<b>ProposedExecutionDate</b> <PropsdExctnDt>	[0..1]	Date		1149
	<b>InstantTransferProgram</b> <InstntTrfPrgm>	[0..1]	Text		1149
	<b>RecurringTransfer</b> <RcrngTrf>	[0..1]			1149
	<b>StartDate</b> <StartDt>	[1..1]	Date		1149
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1149
	<b>EndDate</b> <EndDt>	[1..1]	Date		1149
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1149
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1150
	<b>AuthorisationResult</b> <AuthstnRslt>	[0..1]			1150
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		1151
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			1152
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1152
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1152
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1156
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			1156
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		1156
	<b>Codification</b> <Cdftcn>	[0..1]	Text		1156
	<b>Response</b> <Rspn>	[1..1]	Text		1157
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		1157
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1157
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		1157
	<b>Action</b> <Actn>	[0..*]			1157
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1157
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1158
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1159
	<b>ICCRRelatedData</b> <ICCRltdData>	[0..1]	Binary		1161
	<b>Command</b> <Cmd>	[0..*]			1161
	<b>Type</b> <Tp>	[1..1]	CodeSet		1161
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1162
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1162
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1162
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1163

#### 30.4.3.3.1 TransactionIdentification <TxId>

*Presence:* [1..1]

*Definition:* Identification of the transaction assigned by the ATM.

**TransactionIdentification <TxId>** contains the following elements (see "TransactionIdentifier1" on page 1251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 30.4.3.3.2 ReconciliationIdentification <RcncltnId>

*Presence:* [0..1]

*Definition:* Identification of the reconciliation period assigned by the ATM.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.3 CreditorLabel <CdtrLbl>

*Presence:* [0..1]

*Definition:* Description of the transfer for the creditor.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.4 DebtorLabel <DbtrLbl>

*Presence:* [0..1]

*Definition:* Description of the transfer for the debtor.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.5 TransferIdentifier <Trfldr>

*Presence:* [0..1]

*Definition:* Identifier of the approved transfer transaction for the bank.



Datatype: "Max70Text" on page 1318

#### 30.4.3.3.6 PaymentReference <PmtRef>

Presence: [0..1]

Definition: Reference of the payment.

Datatype: "Max35Text" on page 1317

#### 30.4.3.3.7 TransactionResponse <TxRspn>

Presence: [1..1]

Definition: Result of the fund transfer request.

TransactionResponse <TxRspn> contains the following ResponseType7 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1121
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1121
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1125

##### 30.4.3.3.7.1 Response <Rspn>

Presence: [1..1]

Definition: Result of the requested transaction.

Datatype: "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 30.4.3.3.7.2 ResponseReason <RspnRsn>

Presence: [0..1]

Definition: Detail of the response.

Datatype: "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.

CodeName	Name	Definition
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.

CodeName	Name	Definition
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.

CodeName	Name	Definition
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.

CodeName	Name	Definition
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 30.4.3.3.7.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 30.4.3.3.8 Action <Actn>

*Presence:* [0..\*]

*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.

**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1125
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1126
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1126
	<b>Message</b> <Msg>	[0..1]	Text		1127
	<b>Reference</b> <Ref>	[0..1]	Text		1127
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1127
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1127
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1127

##### 30.4.3.3.8.1 ActionType <ActnTp>

*Presence:* [1..1]

*Definition:* Type of action to be performed by the card acceptor.

*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.

CodeName	Name	Definition
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 30.4.3.3.8.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1126
	<b>Message</b> <Msg>	[0..1]	Text		1127
	<b>Reference</b> <Ref>	[0..1]	Text		1127
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1127
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1127

##### 30.4.3.3.8.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

**30.4.3.3.8.2.2 Message <Msg>***Presence:* [0..1]*Definition:* Content of the message.*Datatype:* "Max20000Text" on page 1316**30.4.3.3.8.2.3 Reference <Ref>***Presence:* [0..1]*Definition:* Message content if this is a message reference or screen reference.*Datatype:* "Max35Text" on page 1317**30.4.3.3.8.2.4 Device <Dvc>***Presence:* [0..1]*Definition:* Device to be used.*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

**30.4.3.3.8.2.5 MessageContentSignature <MsgCnttSgntr>***Presence:* [0..1]*Definition:* Electronic signature of the message to display or print.*Datatype:* "Max35Binary" on page 1270**30.4.3.3.8.3 RequestToPerform <ReqToPrfrm>***Presence:* [0..1]*Definition:* Message to send before the completion of the transaction.*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.

CodeName	Name	Definition
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.



CodeName	Name	Definition
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

### 30.4.3.3.9 AccountFrom <AcctFr>

*Presence:* [0..1]

*Definition:* Information about the source account of the transfer.

**AccountFrom <AcctFr>** contains the following **CardAccount13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1130
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1130
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1131
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1131
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1131
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1131
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1132
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1132
	<b>Identification</b> <Id>	[1..1]	Text		1132
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1132
	<b>Servicer</b> <Svcr>	[0..1]			1132
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1133
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1133
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1133
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1133
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1134
	<b>BalanceAfter</b> <BalAft>	[0..1]			1134
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1134
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1135

**30.4.3.3.9.1 AccountType <AcctTp>***Presence:* [0..1]*Definition:* Type of account used for the transaction.*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

**30.4.3.3.9.2 AccountName <AcctNm>***Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

**30.4.3.3.9.3 Currency <Ccy>***Presence:* [0..1]*Definition:* Identification of the currency in which the account is held.*Impacted by:* C1 "ActiveCurrency"*Datatype:* "ActiveCurrencyCode" on page 1272**Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

**30.4.3.3.9.4 AccountIdentifier <AcctIdr>***Presence:* [0..1]*Definition:* Unique identifier of the account, as assigned by the account servicer.**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1131
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1131
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1132
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1132
	<b>Identification</b> <Id>	[1..1]	Text		1132

**30.4.3.3.9.4.1 IBAN <IBAN>***Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"*Datatype:* "IBANIdentifier" on page 1313**Constraints**

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

**30.4.3.3.9.4.2 BBAN <BBAN>***Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

#### 30.4.3.3.9.4.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

#### 30.4.3.3.9.4.4 DomesticAccount <DmstAcct>

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		1132

##### 30.4.3.3.9.4.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.9.5 CreditReference <CdtRef>

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.9.6 Servicer <Svcr>

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	1133
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		1133

**30.4.3.3.9.6.1 AnyBIC <AnyBIC>**

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**30.4.3.3.9.6.2 ProprietaryIdentification <PrtryId>**

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <PrtryId>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

**30.4.3.3.9.7 BalanceBefore <BalBfr>**

*Presence:* [0..1]

*Definition:* Balance of the account before the transfer.

**BalanceBefore <BalBfr>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1133
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1134

**30.4.3.3.9.7.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* C5 "ValidationByTable"

*Datatype:* "CurrencyAndAmount" on page 1269

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**30.4.3.3.9.7.2 Sign <Sgn>**

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator" on page 1314](#)):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

**30.4.3.3.9.7.3 Date <Dt>**

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate" on page 1312](#)

**30.4.3.3.9.8 BalanceAfter <BalAfr>**

*Presence:* [0..1]

*Definition:* Balance of the account after the transfer.

**BalanceAfter <BalAfr>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1134
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1134
	<b>Date</b> <Dt>	[0..1]	Date		1135

**30.4.3.3.9.8.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* [C5 "ValidationByTable"](#)

*Datatype:* ["CurrencyAndAmount" on page 1269](#)

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**30.4.3.3.9.8.2 Sign <Sgn>**

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator"](#) on page 1314):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

#### 30.4.3.3.9.8.3 Date <Dt>

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate"](#) on page 1312

#### 30.4.3.3.10 ProtectedAccountFrom <PrtctdAcctFr>

*Presence:* [0..1]

*Definition:* Encryption of the source account information.

**ProtectedAccountFrom <PrtctdAcctFr>** contains the following elements (see ["ContentInformationType10"](#) on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 30.4.3.3.11 AccountTo <AcctTo>

*Presence:* [0..\*]

*Definition:* Information about the destination account of the transfer.

**AccountTo <AcctTo>** contains the following **CardAccount13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AccountType</b> <AcctTp>	[0..1]	CodeSet		1136
	<b>AccountName</b> <AcctNm>	[0..1]	Text		1137
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1137
	<b>AccountIdentifier</b> <AcctIdr>	[0..1]			1138
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1138
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1138
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1138
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1139
	<b>Identification</b> <Id>	[1..1]	Text		1139
	<b>CreditReference</b> <CdtRef>	[0..1]	Text		1139
	<b>Servicer</b> <Svcr>	[0..1]			1139
{Or	<b>AnyBIC</b> <AnyBIC>	[1..1]	IdentifierSet	C2	1139
Or}	<b>ProprietaryIdentification</b> <PrtryId>	[1..1]	±		1140
	<b>BalanceBefore</b> <BalBfr>	[0..1]			1140
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1140
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1140
	<b>Date</b> <Dt>	[0..1]	Date		1141
	<b>BalanceAfter</b> <BalAfr>	[0..1]			1141
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1141
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1141
	<b>Date</b> <Dt>	[0..1]	Date		1141

#### 30.4.3.3.11.1 AccountType <AcctTp>

*Presence:* [0..1]

*Definition:* Type of account used for the transaction.

*Datatype:* "CardAccountType3Code" on page 1290

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.



CodeName	Name	Definition
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

#### 30.4.3.3.11.2 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

*Datatype:* "Max70Text" on page 1318

#### 30.4.3.3.11.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Identification of the currency in which the account is held.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.11.4 AccountIdentifier <AcctIdr>

*Presence:* [0..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>IBAN</b> <IBAN>	[1..1]	IdentifierSet	C4	1138
Or	<b>BBAN</b> <BBAN>	[1..1]	IdentifierSet		1138
Or	<b>UPIC</b> <UPIC>	[1..1]	IdentifierSet		1138
Or}	<b>DomesticAccount</b> <DmstAcct>	[1..1]			1139
	<b>Identification</b> <Id>	[1..1]	Text		1139

##### 30.4.3.3.11.4.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

##### 30.4.3.3.11.4.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

##### 30.4.3.3.11.4.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

**30.4.3.3.11.4.4 DomesticAccount <DmstAcct>**

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Identification &lt;Id&gt;</b>	[1..1]	Text		1139

**30.4.3.3.11.4.4.1 Identification <Id>**

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

**30.4.3.3.11.5 CreditReference <CdtRef>**

*Presence:* [0..1]

*Definition:* Internal account reference in case of credit account.

*Datatype:* "Max35Text" on page 1317

**30.4.3.3.11.6 Servicer <Svcr>**

*Presence:* [0..1]

*Definition:* Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

**Servicer <Svcr>** contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	<b>AnyBIC &lt;AnyBIC&gt;</b>	[1..1]	IdentifierSet	C2	1139
Or}	<b>ProprietaryIdentification &lt;PrtryId&gt;</b>	[1..1]	±		1140

**30.4.3.3.11.6.1 AnyBIC <AnyBIC>**

*Presence:* [1..1]

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

*Impacted by:* C2 "AnyBIC"

*Datatype:* "AnyBICIdentifier" on page 1312

**Constraints**

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

**30.4.3.3.11.6.2 ProprietaryIdentification <Prtryld>**

*Presence:* [1..1]

*Definition:* Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

**ProprietaryIdentification <Prtryld>** contains the following elements (see "[GenericIdentification1](#)" on page 1229 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

**30.4.3.3.11.7 BalanceBefore <BalBfr>**

*Presence:* [0..1]

*Definition:* Balance of the account before the transfer.

**BalanceBefore <BalBfr>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1140
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1140
	<b>Date</b> <Dt>	[0..1]	Date		1141

**30.4.3.3.11.7.1 Amount <Amt>**

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* [C5 "ValidationByTable"](#)

*Datatype:* "[CurrencyAndAmount](#)" on page 1269

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

**30.4.3.3.11.7.2 Sign <Sgn>**

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator"](#) on page 1314):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

#### 30.4.3.3.11.7.3 Date <Dt>

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* ["ISODate"](#) on page 1312

#### 30.4.3.3.11.8 BalanceAfter <BalAftr>

*Presence:* [0..1]

*Definition:* Balance of the account after the transfer.

**BalanceAfter <BalAftr>** contains the following **AmountAndDirection43** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount	C5	1141
	<b>Sign</b> <Sgn>	[0..1]	Indicator		1141
	<b>Date</b> <Dt>	[0..1]	Date		1141

##### 30.4.3.3.11.8.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Impacted by:* [C5 "ValidationByTable"](#)

*Datatype:* ["CurrencyAndAmount"](#) on page 1269

##### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

##### 30.4.3.3.11.8.2 Sign <Sgn>

*Presence:* [0..1]

*Definition:* Indicates that the amount value is positive or negative.

*Datatype:* One of the following values must be used (see ["PlusOrMinusIndicator"](#) on page 1314):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

##### 30.4.3.3.11.8.3 Date <Dt>

*Presence:* [0..1]

*Definition:* Date of the amount.

*Datatype:* "ISODate" on page 1312

#### 30.4.3.3.12 ProtectedAccountTo <PrctdAcctTo>

*Presence:* [0..1]

*Definition:* Encryption of the destination account information.

**ProtectedAccountTo <PrctdAcctTo>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 30.4.3.3.13 TotalAuthorisedAmount <TtlAuthrsdAmt>

*Presence:* [1..1]

*Definition:* Total authorised amount.

**TotalAuthorisedAmount <TtlAuthrsdAmt>** contains the following elements (see "AmountAndCurrency1" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

#### 30.4.3.3.14 TotalRequestedAmount <TtlReqdAmt>

*Presence:* [0..1]

*Definition:* Total requested amount.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.15 DetailedRequestedAmount <DtldReqdAmt>

*Presence:* [0..1]

*Definition:* Details of the transfer transaction amounts.

**DetailedRequestedAmount <DtldReqdAmt>** contains the following **DetailedAmount17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AmountToTransfer</b> <AmtToTrf>	[1..1]	Amount		1143
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1143
	<b>Fees</b> <Fees>	[0..*]			1143
	<b>Amount</b> <Amt>	[1..1]	Amount		1144
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1144
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1144
	<b>Label</b> <Labl>	[0..1]	Text		1144
	<b>Donation</b> <Dontn>	[0..*]			1144
	<b>Amount</b> <Amt>	[1..1]	Amount		1145
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1145
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1145
	<b>Label</b> <Labl>	[0..1]	Text		1145

#### 30.4.3.3.15.1 AmountToTransfer <AmtToTrf>

*Presence:* [1..1]

*Definition:* Amount to be transferred from the source account to the destination account.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.15.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount to be transferred.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.15.3 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Transfer fees, accepted by the customer.

**Fees <Fees>** contains the following **DetailedAmount18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1144
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1144
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1144
	<b>Label</b> <Labl>	[0..1]	Text		1144

#### 30.4.3.3.15.3.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.15.3.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.15.3.3 ChargeAccountTo <ChrgAcctTo>

*Presence:* [0..1]

*Definition:* True if amount charged to the source account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 30.4.3.3.15.3.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* "Max70Text" on page 1318

#### 30.4.3.3.15.4 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.



**Donation <Dontn>** contains the following **DetailedAmount18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1145
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1145
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1145
	<b>Label</b> <Labl>	[0..1]	Text		1145

#### 30.4.3.3.15.4.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.15.4.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.15.4.3 ChargeAccountTo <ChrgAcctTo>

*Presence:* [0..1]

*Definition:* True if amount charged to the source account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 30.4.3.3.15.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* "Max70Text" on page 1318

#### 30.4.3.3.16 AdditionalCharge <AddtlChrg>

*Presence:* [0..\*]

*Definition:* Additional charge (for instance tax or fee).

**AdditionalCharge <AddtlChrg>** contains the following **DetailedAmount18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Amount</b> <Amt>	[1..1]	Amount		1146
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1146
	<b>ChargeAccountTo</b> <ChrgAcctTo>	[0..1]	Indicator		1146
	<b>Label</b> <Labl>	[0..1]	Text		1146

#### 30.4.3.3.16.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.16.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.16.3 ChargeAccountTo <ChrgAcctTo>

*Presence:* [0..1]

*Definition:* True if amount charged to the source account.

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 30.4.3.3.16.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* "Max70Text" on page 1318

#### 30.4.3.3.17 Limits <Lmts>

*Presence:* [0..1]

*Definition:* Limit of amounts for the customer.

**Limits <Lmts>** contains the following **ATMTransactionAmounts6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1147
	<b>MaximumPossibleAmount</b> <MaxPssblAmt>	[0..1]	Amount		1147
	<b>MinimumPossibleAmount</b> <MinPssblAmt>	[0..1]	Amount		1147
	<b>AdditionalAmount</b> <AddtlAmt>	[0..*]			1147
	<b>Type</b> <Tp>	[1..1]	Text		1148
	<b>Amount</b> <Amt>	[1..1]	Amount		1148
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1148
	<b>Label</b> <Labl>	[0..1]	Text		1148

#### 30.4.3.3.17.1 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Default currency of the limits.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.17.2 MaximumPossibleAmount <MaxPssblAmt>

*Presence:* [0..1]

*Definition:* Maximum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.17.3 MinimumPossibleAmount <MinPssblAmt>

*Presence:* [0..1]

*Definition:* Minimum amount allowed for a transaction in the service.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.17.4 AdditionalAmount <AddtlAmt>

*Presence:* [0..\*]

*Definition:* Additional amount that may be displayed to the customer, for instance the daily limit or the daily balance for the service.

**AdditionalAmount <AddtlAmt>** contains the following **ATMTransactionAmounts7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	Text		1148
	<b>Amount</b> <Amt>	[1..1]	Amount		1148
	<b>Currency</b> <Ccy>	[0..1]	CodeSet	C1	1148
	<b>Label</b> <Labl>	[0..1]	Text		1148

#### 30.4.3.3.17.4.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of amount.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.17.4.2 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 30.4.3.3.17.4.3 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 30.4.3.3.17.4.4 Label <Labl>

*Presence:* [0..1]

*Definition:* Description of the amount that may be provided to the customer.

*Datatype:* "Max70Text" on page 1318

#### 30.4.3.3.18 RequestedExecutionDate <ReqdExctnDt>

*Presence:* [0..1]

*Definition:* Requested date of the execution of the transfer.

*Datatype:* "ISODate" on page 1312

**30.4.3.3.19 ProposedExecutionDate <PropsdExctnDt>***Presence:* [0..1]*Definition:* Proposed date of the execution of the transfer.*Datatype:* "ISODate" on page 1312**30.4.3.3.20 InstantTransferProgram <InstntTrfPrgm>***Presence:* [0..1]*Definition:* Identifies the instant transfer program.*Datatype:* "Max35Text" on page 1317**30.4.3.3.21 RecurringTransfer <RcrngTrf>***Presence:* [0..1]*Definition:* Information for recurring transfer or standing orders.**RecurringTransfer <RcrngTrf>** contains the following **RecurringTransaction3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>StartDate</b> <StartDt>	[1..1]	Date		1149
	<b>NumberOfOccurrences</b> <NbOfOcrncs>	[0..1]	Quantity		1149
	<b>EndDate</b> <EndDt>	[1..1]	Date		1149
	<b>PeriodUnit</b> <PrdUnit>	[0..1]	CodeSet		1149
	<b>IntervalDay</b> <IntrvlDay>	[0..1]	Quantity		1150

**30.4.3.3.21.1 StartDate <StartDt>***Presence:* [1..1]*Definition:* Date of first transfer.*Datatype:* "ISODate" on page 1312**30.4.3.3.21.2 NumberOfOccurrences <NbOfOcrncs>***Presence:* [0..1]*Definition:* Number of transfers to perform.*Datatype:* "Number" on page 1314**30.4.3.3.21.3 EndDate <EndDt>***Presence:* [1..1]*Definition:* Date of last transfer.*Datatype:* "ISODate" on page 1312**30.4.3.3.21.4 PeriodUnit <PrdUnit>***Presence:* [0..1]*Definition:* Period of the recurring transfer.

*Datatype:* "Frequency3Code" on page 1298

CodeName	Name	Definition
YEAR	Annual	Event takes place every year or once a year.
MNTH	Monthly	Event takes place every month or once a month.
QURT	Quarterly	Event takes place every three months or four times a year.
MIAN	SemiAnnual	Event takes place every six months or two times a year.
WEEK	Weekly	Event takes place once a week.
DAIL	Daily	Event takes place every day.
TEND	TenDays	Event takes place every ten business days.

#### **30.4.3.3.21.5 IntervalDay <IntrvlDay>**

*Presence:* [0..1]

*Definition:* Day of the period when the transfer will be performed.

*Datatype:* "Number" on page 1314

#### **30.4.3.3.22 AuthorisationResult <AuthstnRsIt>**

*Presence:* [0..1]

*Definition:* Outcome of the transfer authorisation.

**AuthorisationResult <AuthstnRslt>** contains the following **AuthorisationResult13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>AuthorisationEntity</b> <AuthstnNtty>	[0..1]	CodeSet		1151
	<b>AuthorisationResponse</b> <AuthstnRspn>	[1..1]			1152
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1152
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1152
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1156
	<b>ResponseTrace</b> <RspnTrac>	[0..*]			1156
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		1156
	<b>Codification</b> <Cdfctn>	[0..1]	Text		1156
	<b>Response</b> <Rspn>	[1..1]	Text		1157
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		1157
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1157
	<b>AuthorisationCode</b> <AuthstnCd>	[0..1]	Text		1157
	<b>Action</b> <Actn>	[0..*]			1157
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1157
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1158
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1159

#### 30.4.3.3.22.1 AuthorisationEntity <AuthstnNtty>

*Presence:* [0..1]

*Definition:* Type of party that has delivered or declined the card payment authorisation (the party is not identified).

*Datatype:* "PartyType16Code" on page 1304

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.

CodeName	Name	Definition
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 30.4.3.3.22.2 AuthorisationResponse <AuthstnRspn>

*Presence:* [1..1]

*Definition:* Result of the authorisation.

**AuthorisationResponse <AuthstnRspn>** contains the following **ResponseType7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Response</b> <Rspn>	[1..1]	CodeSet		1152
	<b>ResponseReason</b> <RspnRsn>	[0..1]	CodeSet		1152
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1156

##### 30.4.3.3.22.2.1 Response <Rspn>

*Presence:* [1..1]

*Definition:* Result of the requested transaction.

*Datatype:* "Response4Code" on page 1306

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

##### 30.4.3.3.22.2.2 ResponseReason <RspnRsn>

*Presence:* [0..1]

*Definition:* Detail of the response.

*Datatype:* "ResultDetail4Code" on page 1306

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.



CodeName	Name	Definition
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.

CodeName	Name	Definition
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.

CodeName	Name	Definition
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.

CodeName	Name	Definition
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

#### 30.4.3.3.22.2.3 AdditionalResponseInformation <AddtlRspnInf>

*Presence:* [0..1]

*Definition:* Additional information to be logged for further examination.

*Datatype:* "Max140Text" on page 1316

#### 30.4.3.3.22.3 ResponseTrace <RspnTrac>

*Presence:* [0..\*]

*Definition:* Trace of response by the entities in the path from the issuer to the ATM.

**ResponseTrace <RspnTrac>** contains the following **ResponseType8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ResponderIdentification</b> <RspndrId>	[1..1]	Text		1156
	<b>Codification</b> <Cdfctn>	[0..1]	Text		1156
	<b>Response</b> <Rspn>	[1..1]	Text		1157
	<b>ResponseReason</b> <RspnRsn>	[0..1]	Text		1157
	<b>AdditionalResponseInformation</b> <AddtlRspnInf>	[0..1]	Text		1157

##### 30.4.3.3.22.3.1 ResponderIdentification <RspndrId>

*Presence:* [1..1]

*Definition:* Identification of the responder.

*Datatype:* "Max35Text" on page 1317

##### 30.4.3.3.22.3.2 Codification <Cdfctn>

*Presence:* [0..1]

*Definition:* Codification of the response (for instance ISO 8583, IFX).

*Datatype:* "Max35Text" on page 1317

**30.4.3.3.22.3.3 Response <Rspn>***Presence:* [1..1]*Definition:* Result of the request.*Datatype:* "Max35Text" on page 1317**30.4.3.3.22.3.4 ResponseReason <RspnRsn>***Presence:* [0..1]*Definition:* Detail of the response.*Datatype:* "Max35Text" on page 1317**30.4.3.3.22.3.5 AdditionalResponseInformation <AddtlRspnInf>***Presence:* [0..1]*Definition:* Additional information to be logged for further examination.*Datatype:* "Max35Text" on page 1317**30.4.3.3.22.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 1319**30.4.3.3.22.5 Action <Actn>***Presence:* [0..\*]*Definition:* Sequence of actions to be performed by the ATM to complete the transaction.**Action <Actn>** contains the following **Action7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ActionType</b> <ActnTp>	[1..1]	CodeSet		1157
	<b>MessageToPresent</b> <MsgToPres>	[0..1]			1158
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159
	<b>RequestToPerform</b> <ReqToPrfrm>	[0..1]	CodeSet		1159

**30.4.3.3.22.5.1 ActionType <ActnTp>***Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType6Code" on page 1272

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

#### 30.4.3.3.22.5.2 MessageToPresent <MsgToPres>

*Presence:* [0..1]

*Definition:* Information to display, print or log.

**MessageToPresent <MsgToPres>** contains the following **ActionMessage4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Format</b> <Frmt>	[0..1]	CodeSet		1158
	<b>Message</b> <Msg>	[0..1]	Text		1159
	<b>Reference</b> <Ref>	[0..1]	Text		1159
	<b>Device</b> <Dvc>	[0..1]	CodeSet		1159
	<b>MessageContentSignature</b> <MsgCnttSgntr>	[0..1]	Binary		1159

#### 30.4.3.3.22.5.2.1 Format <Frmt>

*Presence:* [0..1]

*Definition:* Information format.

*Datatype:* "OutputFormat2Code" on page 1303

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.

CodeName	Name	Definition
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

#### 30.4.3.3.22.5.2.2 Message <Msg>

*Presence:* [0..1]

*Definition:* Content of the message.

*Datatype:* "Max20000Text" on page 1316

#### 30.4.3.3.22.5.2.3 Reference <Ref>

*Presence:* [0..1]

*Definition:* Message content if this is a message reference or screen reference.

*Datatype:* "Max35Text" on page 1317

#### 30.4.3.3.22.5.2.4 Device <Dvc>

*Presence:* [0..1]

*Definition:* Device to be used.

*Datatype:* "ATMDevice1Code" on page 1279

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

#### 30.4.3.3.22.5.2.5 MessageContentSignature <MsgCnttSgntr>

*Presence:* [0..1]

*Definition:* Electronic signature of the message to display or print.

*Datatype:* "Max35Binary" on page 1270

#### 30.4.3.3.22.5.3 RequestToPerform <ReqToPrfrm>

*Presence:* [0..1]

*Definition:* Message to send before the completion of the transaction.

*Datatype:* "MessageFunction11Code" on page 1300

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.



CodeName	Name	Definition
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 30.4.3.3.23 ICCRelatedData <ICCRltdData>

*Presence:* [0..1]

*Definition:* Sequence of one or more TLV data elements from the ATM application, in accordance with ISO 7816-6, not in a specific order. Present if the transaction is performed with an EMV chip card application.

*Datatype:* "Max10000Binary" on page 1270

#### 30.4.3.3.24 Command <Cmd>

*Presence:* [0..\*]

*Definition:* Maintenance command to perform on the ATM.

**Command <Cmd>** contains the following **ATMCommand7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>Type</b> <Tp>	[1..1]	CodeSet		1161
	<b>Urgency</b> <Urgcy>	[1..1]	CodeSet		1162
	<b>DateTime</b> <DtTm>	[0..1]	DateTime		1162
	<b>CommandIdentification</b> <CmdId>	[0..1]	±		1162
	<b>CommandParameters</b> <CmdParams>	[0..1]	±		1163

##### 30.4.3.3.24.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of command to be performed by the ATM.

*Datatype:* "ATMCommand4Code" on page 1277

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.

CodeName	Name	Definition
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

#### 30.4.3.3.24.2 Urgency <Urgcy>

*Presence:* [1..1]

*Definition:* Urgency of the command.

*Datatype:* "TMSContactLevel2Code" on page 1310

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

#### 30.4.3.3.24.3 DateTime <DtTm>

*Presence:* [0..1]

*Definition:* Date time on which the command must be performed.

*Datatype:* "ISODatetime" on page 1312

#### 30.4.3.3.24.4 CommandIdentification <CmdId>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

**CommandIdentification <CmdId>** contains the following elements (see "ATMCommandIdentification1" on page 1169 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prcc>	[0..1]	Text		1170

### 30.4.3.3.24.5 CommandParameters <CmdParams>

*Presence:* [0..1]

*Definition:* Specific parameters attached to the command.

**CommandParameters <CmdParams>** contains one of the following elements (see "ATMCommandParameters1Choice" on page 1193 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

## 30.4.4 SecurityTrailer <SctyTrlr>

*Presence:* [0..1]

*Definition:* Trailer of the message containing a MAC.

**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>ContentType</b> <CnttTp>	[1..1]	CodeSet		1163
	<b>AuthenticatedData</b> <AuthntcdData>	[1..1]	±		1164

### 30.4.4.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 30.4.4.2 AuthenticatedData <AuthntcdData>

*Presence:* [1..1]

*Definition:* Data protection by a message authentication code (MAC).

**AuthenticatedData <AuthntcdData>** contains the following elements (see "[AuthenticatedData4](#)" on page 1231 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

# 31 Message Items Types

## 31.1 MessageComponents

### 31.1.1 Acquirer

#### 31.1.1.1 KEKIdentifier2

*Definition:* Identification of a key encryption key (KEK), using previously distributed symmetric key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		1165
	KeyVersion <KeyVrsn>	[1..1]	Text		1165
	SequenceNumber <SeqNb>	[0..1]	Quantity		1165
	DerivationIdentification <DerivtnId>	[0..1]	Binary		1165

##### 31.1.1.1.1 KeyIdentification <KeyId>

*Presence:* [1..1]

*Definition:* Identification of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

##### 31.1.1.1.2 KeyVersion <KeyVrsn>

*Presence:* [1..1]

*Definition:* Version of the cryptographic key.

*Datatype:* "Max140Text" on page 1316

##### 31.1.1.1.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* Number of usages of the cryptographic key.

*Datatype:* "Number" on page 1314

##### 31.1.1.1.4 DerivationIdentification <DerivtnId>

*Presence:* [0..1]

*Definition:* Identification used for derivation of a unique key from a master key provided for the data protection.

*Datatype:* "Min5Max16Binary" on page 1271

#### 31.1.1.2 Acquirer8

*Definition:* Institution in charge of managing the ATM.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1166
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1166

#### 31.1.1.2.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification of the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 31.1.1.2.2 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Software version of the application.

*Datatype:* "Max35Text" on page 1317

#### 31.1.1.3 Acquirer7

*Definition:* Acquirer of the withdrawal transaction, in charge of the funds settlement with the issuer.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquiringInstitution <Acqrglnstn>	[0..1]	Text		1166
	Branch <Brnch>	[0..1]	Text		1166

##### 31.1.1.3.1 AcquiringInstitution <Acqrglnstn>

*Presence:* [0..1]

*Definition:* Identification of the acquirer.

*Datatype:* "Max35Text" on page 1317

##### 31.1.1.3.2 Branch <Brnch>

*Presence:* [0..1]

*Definition:* Identification of the acquirer branch.

*Datatype:* "Max35Text" on page 1317

## 31.1.2 Amount

#### 31.1.2.1 DetailedAmount12

*Definition:* Amounts of the withdrawal transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountToDispense <AmtToDspns>	[1..1]	Amount		1167
	Currency <Ccy>	[0..1]	CodeSet	C1	1167
	Fees <Fees>	[0..*]	±		1167
	Donation <Dontn>	[0..*]	±		1167

#### 31.1.2.1.1 AmountToDispense <AmtToDspns>

*Presence:* [1..1]

*Definition:* Amount to be dispensed by the ATM after the approval of the withdrawal transaction.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 31.1.2.1.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount to dispense when different from the base currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 31.1.2.1.3 Fees <Fees>

*Presence:* [0..\*]

*Definition:* Withdrawal fees, accepted by the customer.

**Fees <Fees>** contains the following elements (see "DetailedAmount13" on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 31.1.2.1.4 Donation <Dontn>

*Presence:* [0..\*]

*Definition:* Amount of the donation.

**Donation <Dontn>** contains the following elements (see ["DetailedAmount13"](#) on page 1168 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

### 31.1.2.2 DetailedAmount13

*Definition:* Withdrawal fees, accepted by the customer.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1168
	Currency <Ccy>	[0..1]	CodeSet	C1	1168
	Label <Labl>	[0..1]	Text		1168

#### 31.1.2.2.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* ["ImpliedCurrencyAndAmount"](#) on page 1269

#### 31.1.2.2.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 ["ActiveCurrency"](#)

*Datatype:* ["ActiveCurrencyCode"](#) on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 31.1.2.2.3 Label <Labl>

*Presence:* [0..1]

*Definition:* Short description of the amount to display or print.

*Datatype:* ["Max70Text"](#) on page 1318

### 31.1.2.3 AmountAndCurrency1

*Definition:* Amount to be authorised by the issuer.



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		1169
	Currency <Ccy>	[0..1]	CodeSet	C1	1169

### 31.1.2.3.1 Amount <Amt>

*Presence:* [1..1]

*Definition:* Amount value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

### 31.1.2.3.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

## 31.1.3 ATM

### 31.1.3.1 ATMCommandIdentification1

*Definition:* Identification of the entity issuing the command.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Origin <Orgn>	[0..1]	Text		1169
	Reference <Ref>	[0..1]	Text		1169
	Processor <Prctr>	[0..1]	Text		1170

#### 31.1.3.1.1 Origin <Orgn>

*Presence:* [0..1]

*Definition:* Identification of the entity issuing the command.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.1.2 Reference <Ref>

*Presence:* [0..1]

*Definition:* Unique identification of the command for the issuer of the command.

Datatype: "Max35Text" on page 1317

### 31.1.3.1.3 Processor <Prcr>

Presence: [0..1]

Definition: Identification or address of the host performing the command.

Datatype: "Max140Text" on page 1316

### 31.1.3.2 OnLinePIN5

Definition: Encrypted personal identification number (PIN) and related information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		1170
	PINFormat <PINFrmt>	[1..1]	CodeSet		1170
	AdditionalInput <AddtlInpt>	[0..1]	Text		1171

#### 31.1.3.2.1 EncryptedPINBlock <NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

**EncryptedPINBlock <NcrptdPINBlck>** contains the following elements (see "ContentInformationType10" on page 1233 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 31.1.3.2.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat4Code" on page 1304

CodeName	Name	Definition
ANSI	ANSIO	ANSI 0 PIN block format.
BNCM	Bancomat	Italian Bancomat PIN block format.
BKSY	Banksys	Banksys PIN block format.
DBLD	Diebold	Diebold PIN block format.
DBLC	DieboldCO	Diebold CO PIN block format.
ECI2	ECI2	ECI2 PIN block format.
ECI3	ECI3	ECI3 PIN block format.
EMVS	EMVRS	EMV ISO2 PIN block format encrypted with the EMV RSA cryptographic key for the PIN.

CodeName	Name	Definition
IBM3	IBM3624	IBM 3624 PIN block format.
ISO0	ISO0	PIN diversified with the card account number, conforming to the standard ISO 9564-2.
ISO1	ISO1	PIN completed with random padding characters, conforming to the standard ISO 9564-2.
ISO2	ISO2	PIN without diversification characters, conforming to the standard ISO 9564-2.
ISO3	ISO3	PIN diversified with the card account number and random characters, conforming to the standard ISO 9564-2.
ISO4	ISO4	PIN format used with AES encryption, conforming to the new ISO SC2 format.
ISO5	ISO5	Alternative PIN format used with AES encryption, conforming to the new ISO SC2 format.
VIS2	VISA2	VISA2 PIN block format.
VIS3	VISA3	VISA3 PIN block format.

### 31.1.3.2.3 AdditionalInput <AddtlInpt>

*Presence:* [0..1]

*Definition:* Additional information required to verify the PIN (Personal Identification Number).

*Datatype:* "Max35Text" on page 1317

### 31.1.3.3 ATMAccountStatement1

*Definition:* Statement information of an account.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountIdentifier <AcctIdr>	[1..1]			1172
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	1172
Or	BBAN <BBAN>	[1..1]	IdentifierSet		1173
Or	UPIC <UPIC>	[1..1]	IdentifierSet		1173
Or}	DomesticAccount <DmstAcct>	[1..1]			1173
	Identification <Id>	[1..1]	Text		1173
	AccountName <AcctNm>	[0..1]	Text		1173
	AccountStatement <AcctStmnt>	[0..*]			1174
	TransactionDate <TxDt>	[0..1]	Date		1174
	ValueDate <ValDt>	[0..1]	Date		1174
	ShortText <ShrtTxt>	[0..1]	Text		1174
	CreditTransaction <CdtTx>	[0..1]	Indicator		1174
	Amount <Amt>	[1..1]	Amount		1174
	Currency <Ccy>	[0..1]	CodeSet	C1	1175
	LongText <LngTxt>	[0..1]	Text		1175

### 31.1.3.3.1 AccountIdentifier <AcctIdr>

*Presence:* [1..1]

*Definition:* Unique identifier of the account, as assigned by the account servicer.

**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification31Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	1172
Or	BBAN <BBAN>	[1..1]	IdentifierSet		1173
Or	UPIC <UPIC>	[1..1]	IdentifierSet		1173
Or}	DomesticAccount <DmstAcct>	[1..1]			1173
	Identification <Id>	[1..1]	Text		1173

#### 31.1.3.3.1.1 IBAN <IBAN>

*Presence:* [1..1]

*Definition:* International Bank Account Number (IBAN) - identifier used internationally by financial institutions to uniquely identify the account of a customer. Further specifications of the format and content of the IBAN can be found in the standard ISO 13616 "Banking and related financial services - International Bank Account Number (IBAN)" version 1997-10-01, or later revisions.

*Impacted by:* C4 "IBAN"

*Datatype:* "IBANIdentifier" on page 1313

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

#### 31.1.3.3.1.2 BBAN <BBAN>

*Presence:* [1..1]

*Definition:* Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), to uniquely identify the account of a customer.

*Datatype:* "BBANIdentifier" on page 1313

#### 31.1.3.3.1.3 UPIC <UPIC>

*Presence:* [1..1]

*Definition:* Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Datatype:* "UPICIdentifier" on page 1313

#### 31.1.3.3.1.4 DomesticAccount <DmstAcct>

*Presence:* [1..1]

*Definition:* Account number used by financial institutions in individual countries to identify an account of a customer, but not necessarily the bank and branch of the financial institution in which the account is held.

**DomesticAccount <DmstAcct>** contains the following **SimpleIdentificationInformation4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1173

#### 31.1.3.3.1.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Name or number assigned by an entity to enable recognition of that entity, eg, account identifier.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.3.2 AccountName <AcctNm>

*Presence:* [0..1]

*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

Datatype: "Max70Text" on page 1318

### 31.1.3.3.3 AccountStatement <AcctStmt>

Presence: [0..\*]

Definition: Statement information.

**AccountStatement <AcctStmt>** contains the following **ATMAccountStatement2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDate <TxDt>	[0..1]	Date		1174
	ValueDate <ValDt>	[0..1]	Date		1174
	ShortText <ShrtTxt>	[0..1]	Text		1174
	CreditTransaction <CdtTx>	[0..1]	Indicator		1174
	Amount <Amt>	[1..1]	Amount		1174
	Currency <Ccy>	[0..1]	CodeSet	C1	1175
	LongText <LngTxt>	[0..1]	Text		1175

#### 31.1.3.3.3.1 TransactionDate <TxDt>

Presence: [0..1]

Definition: Date of the transaction.

Datatype: "ISODate" on page 1312

#### 31.1.3.3.3.2 ValueDate <ValDt>

Presence: [0..1]

Definition: Value date of the transaction.

Datatype: "ISODate" on page 1312

#### 31.1.3.3.3.3 ShortText <ShrtTxt>

Presence: [0..1]

Definition: Short text to display or print for the statement.

Datatype: "Max70Text" on page 1318

#### 31.1.3.3.3.4 CreditTransaction <CdtTx>

Presence: [0..1]

Definition: True if credit transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

#### 31.1.3.3.3.5 Amount <Amt>

Presence: [1..1]

*Definition:* Amount of the transaction.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### **31.1.3.3.3.6 Currency <Ccy>**

*Presence:* [0..1]

*Definition:* Currency of the amount.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **31.1.3.3.3.7 LongText <LngTxt>**

*Presence:* [0..1]

*Definition:* Alternative text of the statement to print or display.

*Datatype:* "Max256Text" on page 1316

#### **31.1.3.4 AutomatedTellerMachine2**

*Definition:* ATM information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1176
	AdditionalIdentification <AddtlId>	[0..1]	Text		1176
	SequenceNumber <SeqNb>	[0..1]	Text		1176
	BaseCurrency <BaseCcy>	[0..1]	CodeSet	C1	1177
	Location <Lctn>	[0..1]			1177
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

#### 31.1.3.4.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.4.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.4.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317



### 31.1.3.4.4 BaseCurrency <BaseCcy>

*Presence:* [0..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### 31.1.3.4.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		1177
	StreetName <StrtNm>	[0..1]	Text		1178
	BuildingNumber <BldgNb>	[0..1]	Text		1178
	PostCode <PstCd>	[0..1]	Text		1178
	TownName <TwnNm>	[1..1]	Text		1178
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1178
	Country <Ctry>	[1..1]	CodeSet	C1	1178
	GeoLocation <GLctn>	[0..1]			1178
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1180

### 31.1.3.4.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

#### **31.1.3.4.5.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

#### **31.1.3.4.5.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

#### **31.1.3.4.5.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

#### **31.1.3.4.5.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

#### **31.1.3.4.5.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

#### **31.1.3.4.5.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293

##### **Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

#### **31.1.3.4.5.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1179
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179
Or}	UTMCoordinates <UTMCordints>	[1..1]			1179
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1180

#### 31.1.3.4.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		1179
	Longitude <Long>	[1..1]	Text		1179

##### 31.1.3.4.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.4.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.4.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		1180
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1180
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1180

#### 31.1.3.4.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.4.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 31.1.3.4.5.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

### 31.1.3.5 ATMMediaMix1

*Definition:* Media mix selected.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CashUnitNumber <CshUnitNb>	[0..1]	Quantity		1180
	Number <Nb>	[1..1]	Quantity		1180
	UnitValue <UnitVal>	[1..1]	Amount		1181

#### 31.1.3.5.1 CashUnitNumber <CshUnitNb>

*Presence:* [0..1]

*Definition:* Logical unit number of the cash dispenser.

*Datatype:* "Number" on page 1314

#### 31.1.3.5.2 Number <Nb>

*Presence:* [1..1]

*Definition:* Number of notes or coins.

*Datatype:* "Number" on page 1314

### 31.1.3.5.3 UnitValue <UnitVal>

*Presence:* [1..1]

*Definition:* Unit value.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

### 31.1.3.6 ATMTotals3

*Definition:* Totals of the ATM.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1181
	AdditionalIdentification <AddtId>	[0..1]	Text		1181
	Period <Prd>	[1..1]	CodeSet		1181
	Currency <Ccy>	[0..1]	CodeSet	C1	1182
	Count <Cnt>	[1..1]	Quantity		1182
	Amount <Amt>	[0..1]	Amount		1182

#### 31.1.3.6.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification of the type of transaction. The following values are predefined: Withdrawal, QuickWithdrawal, WithdrawalForDisabledPerson, CashDeposit, Transfer, InternationalTransfer, PeriodicTransfer, CheckCommand, MobileTopUp, Moneo.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.6.2 AdditionalIdentification <AddtId>

*Presence:* [0..1]

*Definition:* Additional identification of the type of transaction. The following values are predefined: Vodafone, TMobile, Verizon.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.6.3 Period <Prd>

*Presence:* [1..1]

*Definition:* Period of computation for the counters.

*Datatype:* "ATMCounterType2Code" on page 1279

CodeName	Name	Definition
BDAY	BusinessDay	Counters since the beginning of the business day.
INQU	CountersInquiry	Counters since the last counters inquiry.
CTOF	CutOff	Counters since the last cut-off.

CodeName	Name	Definition
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

#### 31.1.3.6.4 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the totals.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 31.1.3.6.5 Count <Cnt>

*Presence:* [1..1]

*Definition:* Number of transaction with the defined currency.

*Datatype:* "Number" on page 1314

#### 31.1.3.6.6 Amount <Amt>

*Presence:* [0..1]

*Definition:* Amount of transaction with the defined currency.

*Datatype:* "ImpliedCurrencyAndAmount" on page 1269

#### 31.1.3.7 ATMTotals1

*Definition:* Current totals of the ATM.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MediaType <MdiaTp>	[0..1]	CodeSet		1182
	Currency <Ccy>	[0..1]	CodeSet	C1	1183
	ATMBalance <ATMBal>	[0..1]	Amount		1183
	ATMCurrent <ATMCur>	[0..1]	Amount		1183
	ATMBalanceNumber <ATMBalNb>	[0..1]	Quantity		1183
	ATMCurrentNumber <ATMCurNb>	[0..1]	Quantity		1183

##### 31.1.3.7.1 MediaType <MdiaTp>

*Presence:* [0..1]

*Definition:* Type of media inside the cassette.

Datatype: ["ATMMediaType1Code" on page 1281](#)

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

### 31.1.3.7.2 Currency <Ccy>

*Presence:* [0..1]

*Definition:* Currency of the totals.

*Impacted by:* [C1 "ActiveCurrency"](#)

*Datatype:* ["ActiveCurrencyCode" on page 1272](#)

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### 31.1.3.7.3 ATMBalance <ATMBal>

*Presence:* [0..1]

*Definition:* Total balance of the ATM including reject cassette, but excluding the retract cassette.

*Datatype:* ["ImpliedCurrencyAndAmount" on page 1269](#)

### 31.1.3.7.4 ATMCurrent <ATMCur>

*Presence:* [0..1]

*Definition:* Available amount for dispense in the ATM.

*Datatype:* ["ImpliedCurrencyAndAmount" on page 1269](#)

### 31.1.3.7.5 ATMBalanceNumber <ATMBalNb>

*Presence:* [0..1]

*Definition:* Total number of units for non-valued media, including reject cassette.

*Datatype:* ["Number" on page 1314](#)

### 31.1.3.7.6 ATMCurrentNumber <ATMCurNb>

*Presence:* [0..1]

*Definition:* Total number of units for non-valued media, excluding reject cassette.

*Datatype:* "Number" on page 1314

### **31.1.3.8 AutomatedTellerMachine8**

*Definition:* ATM information.



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1186
	AdditionalIdentification <AddtlId>	[0..1]	Text		1186
	SequenceNumber <SeqNb>	[0..1]	Text		1186
	BaseCurrency <BaseCcy>	[1..1]	CodeSet	C1	1186
	Location <Lctn>	[0..1]			1186
	AddressLine <AdrLine>	[0..2]	Text		1187
	StreetName <StrtNm>	[0..1]	Text		1187
	BuildingNumber <BldgNb>	[0..1]	Text		1187
	PostCode <PstCd>	[0..1]	Text		1187
	TownName <TwnNm>	[1..1]	Text		1188
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1188
	Country <Ctry>	[1..1]	CodeSet	C1	1188
	GeoLocation <GLctn>	[0..1]			1188
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1188
	Latitude <Lat>	[1..1]	Text		1189
	Longitude <Long>	[1..1]	Text		1189
Or}	UTMCoordinates <UTMCordints>	[1..1]			1189
	UTMZone <UTMZone>	[1..1]	Text		1189
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1189
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1190
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1190
	Equipment <Eqpmnt>	[0..1]			1190
	Manufacturer <Manfctr>	[0..1]	Text		1190
	Model <Mdl>	[0..1]	Text		1191
	SerialNumber <SrlNb>	[0..1]	Text		1191
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1191
	ApplicationName <ApplNm>	[0..1]	Text		1191
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1191
	ApprovalNumber <ApprvlNb>	[0..1]	Text		1191
	ConfigurationParameter <CfgrtnParam>	[0..*]			1191
	Type <Tp>	[1..1]	CodeSet		1191

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[1..1]	Text		1192

#### 31.1.3.8.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.8.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.8.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.8.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

##### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### 31.1.3.8.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		1187
	StreetName <StrtNm>	[0..1]	Text		1187
	BuildingNumber <BldgNb>	[0..1]	Text		1187
	PostCode <PstCd>	[0..1]	Text		1187
	TownName <TwnNm>	[1..1]	Text		1188
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1188
	Country <Ctry>	[1..1]	CodeSet	C1	1188
	GeoLocation <GLctn>	[0..1]			1188
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1188
	Latitude <Lat>	[1..1]	Text		1189
	Longitude <Long>	[1..1]	Text		1189
Or}	UTMCoordinates <UTMCordints>	[1..1]			1189
	UTMZone <UTMZone>	[1..1]	Text		1189
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1189
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1190

#### 31.1.3.8.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.8.5.2 StreetName <StrtNm>

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.8.5.3 BuildingNumber <BldgNb>

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.8.5.4 PostCode <PstCd>

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.8.5.5 TownName <TwnNm>

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.8.5.6 CountrySubDivision <CtrySubDvsn>

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.8.5.7 Country <Ctry>

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293

#### Constraints

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

#### 31.1.3.8.5.8 GeoLocation <GLctn>

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1188
	Latitude <Lat>	[1..1]	Text		1189
	Longitude <Long>	[1..1]	Text		1189
Or}	UTMCoordinates <UTMCordints>	[1..1]			1189
	UTMZone <UTMZone>	[1..1]	Text		1189
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1189
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1190

#### 31.1.3.8.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		1189
	Longitude <Long>	[1..1]	Text		1189

#### 31.1.3.8.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.8.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.8.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		1189
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1189
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1190

##### 31.1.3.8.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.8.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

### 31.1.3.8.5.8.2.3 UTMNorthward <UTMNrthwrd>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

### 31.1.3.8.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

### 31.1.3.8.7 Equipment <Eqpmnt>

*Presence:* [0..1]

*Definition:* ATM terminal equipment.

**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1190
	Model <Mdl>	[0..1]	Text		1191
	SerialNumber <SrlNb>	[0..1]	Text		1191
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1191
	ApplicationName <ApplNm>	[0..1]	Text		1191
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1191
	ApprovalNumber <ApprvlNb>	[0..1]	Text		1191
	ConfigurationParameter <CfgrtnParam>	[0..*]			1191
	Type <Tp>	[1..1]	CodeSet		1191
	Version <Vrsn>	[1..1]	Text		1192

### 31.1.3.8.7.1 Manufacturer <Manfctr>

*Presence:* [0..1]

*Definition:* ATM Manufacturer.

*Datatype:* "Max35Text" on page 1317

**31.1.3.8.7.2 Model <Mdl>***Presence:* [0..1]*Definition:* Model of ATM.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.3 SerialNumber <SrINb>***Presence:* [0..1]*Definition:* Serial number of the ATM.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.4 ApplicationProvider <ApplPrvdr>***Presence:* [0..1]*Definition:* Provider of the ATM application software.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.5 ApplicationName <ApplNm>***Presence:* [0..1]*Definition:* Name of the software product.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.6 ApplicationVersion <ApplVrsn>***Presence:* [0..1]*Definition:* Current version of the software that might include the release number.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.7 ApprovalNumber <ApprvINb>***Presence:* [0..1]*Definition:* Unique assessment number for the component.*Datatype:* "Max35Text" on page 1317**31.1.3.8.7.8 ConfigurationParameter <CfgtnParam>***Presence:* [0..\*]*Definition:* Configuration parameter version.**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		1191
	Version <Vrsn>	[1..1]	Text		1192

**31.1.3.8.7.8.1 Type <Tp>***Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMProtocol	ATM protocol parameters, including the configuration of the hosts.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 31.1.3.8.7.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.9 AutomatedTellerMachine7

*Definition:* ATM information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1192
	AdditionalIdentification <AddtlId>	[0..1]	Text		1192
	SequenceNumber <SeqNb>	[0..1]	Text		1193

##### 31.1.3.9.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

##### 31.1.3.9.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317



### 31.1.3.9.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.10 ATMCommandParameters1Choice

*Definition:* Specific parameters attached to an ATM command.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	ATMRequiredGlobalStatus <ATMReqrdGblSts>	[1..1]	CodeSet		1193
Or	ExpectedMessageFunction <XpctdMsgFctn>	[1..1]	CodeSet		1193
Or}	RequiredConfigurationParameter <ReqrdCfgtnParam>	[1..1]			1193
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

#### 31.1.3.10.1 ATMRequiredGlobalStatus <ATMReqrdGblSts>

*Presence:* [1..1]

*Definition:* Required status of the ATM, parameters of the status update command.

*Datatype:* "ATMStatus1Code" on page 1288

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

#### 31.1.3.10.2 ExpectedMessageFunction <XpctdMsgFctn>

*Presence:* [1..1]

*Definition:* Message to send for the send message command.

*Datatype:* "MessageFunction8Code" on page 1302

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
GSTS	ATMGlobalStatus	Global status of the ATM.
DSEC	SecurityDetails	Security detailed report.
INQC	CountersInquiry	Request the value of the ATM counters.
KEYQ	KeyExchangeRequest	Request of a key exchange.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

#### 31.1.3.10.3 RequiredConfigurationParameter <ReqrdCfgtnParam>

*Presence:* [1..1]

*Definition:* Parameters to be used by the configuration update command.

**RequiredConfigurationParameter <ReqrdCfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		1194
	Version <Vrsn>	[1..1]	Text		1194

#### 31.1.3.10.3.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 31.1.3.10.3.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.11 ATMSecurityConfiguration5

*Definition:* Configuration of the PIN online verification.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PINFormat <PINFrmt>	[0..*]	CodeSet		1195
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		1195

### 31.1.3.11.1 PINFormat <PINFrmt>

*Presence:* [0..\*]

*Definition:* PIN block format the security module is able to manage for online verification of the PIN.

*Datatype:* "PINFormat4Code" on page 1304

CodeName	Name	Definition
ANSI	ANSI0	ANSI 0 PIN block format.
BNCM	Bancomat	Italian Bancomat PIN block format.
BKSY	Banksys	Banksys PIN block format.
DBLD	Diebold	Diebold PIN block format.
DBLC	DieboldCO	Diebold CO PIN block format.
ECI2	ECI2	ECI2 PIN block format.
ECI3	ECI3	ECI3 PIN block format.
EMVS	EMVRSA	EMV ISO2 PIN block format encrypted with the EMV RSA cryptographic key for the PIN.
IBM3	IBM3624	IBM 3624 PIN block format.
ISO0	ISO0	PIN diversified with the card account number, conforming to the standard ISO 9564-2.
ISO1	ISO1	PIN completed with random padding characters, conforming to the standard ISO 9564-2.
ISO2	ISO2	PIN without diversification characters, conforming to the standard ISO 9564-2.
ISO3	ISO3	PIN diversified with the card account number and random characters, conforming to the standard ISO 9564-2.
ISO4	ISO4	PIN format used with AES encryption, conforming to the new ISO SC2 format.
ISO5	ISO5	Alternative PIN format used with AES encryption, conforming to the new ISO SC2 format.
VIS2	VISA2	VISA2 PIN block format.
VIS3	VISA3	VISA3 PIN block format.

### 31.1.3.11.2 PINLengthCapabilities <PINLnghCpblties>

*Presence:* [0..1]

*Definition:* Maximum number of digits the security module is able to accept when the cardholder enters its PIN.

*Datatype:* "Number" on page 1314

### 31.1.3.12 ATMSecurityConfiguration4

*Definition:* Configuration of the digital signatures if the security module is able to perform digital signatures with an asymmetric key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MaximumCertificates <MaxCerts>	[0..1]	Quantity		1196
	MaximumSignatures <MaxSgntrs>	[0..1]	Quantity		1196
	DigitalSignatureAlgorithm <DgtlSgntrAlgo>	[0..*]	CodeSet		1196

### 31.1.3.12.1 MaximumCertificates <MaxCerts>

*Presence:* [0..1]

*Definition:* Maximum number of certificates in a certificate path, the security module is able to manage.

*Datatype:* "Number" on page 1314

### 31.1.3.12.2 MaximumSignatures <MaxSgntrs>

*Presence:* [0..1]

*Definition:* Maximum number of cosigners, the security module is able to manage in a digital signature.

*Datatype:* "Number" on page 1314

### 31.1.3.12.3 DigitalSignatureAlgorithm <DgtlSgntrAlgo>

*Presence:* [0..\*]

*Definition:* Digital signature algorithm the security module is able to manage.

*Datatype:* "Algorithm14Code" on page 1275

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	Signature algorithms with RSA (PKCS #1 version 2.1), using SHA-1 digest algorithm - (ASN.1 Object Identifier: sha1WithRSAEncryption).
RPSS	RSASSA-PSS	Signature algorithm with Appendix, Probabilistic Signature Scheme (PKCS #1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).

### 31.1.3.13 ATMSecurityConfiguration3

*Definition:* Configuration of the encryption or digital envelope, if the security module is able to perform encryption.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AsymmetricEncryption <AsmmtrcNcrptn>	[0..1]	Indicator		1197
	AsymmetricKeyStandardIdentification <AsmmtrcKeyStdId>	[0..1]	Indicator		1197
	AsymmetricEncryptionAlgorithm <AsmmtrcNcrptnAlgo>	[0..*]	CodeSet		1197
	SymmetricTransportKey <SmmtrcTrnsprtKey>	[0..1]	Indicator		1197
	SymmetricTransportKeyAlgorithm <SmmtrcTrnsprtKeyAlgo>	[0..*]	CodeSet		1198
	SymmetricEncryptionAlgorithm <SmmtrcNcrptnAlgo>	[0..*]	CodeSet		1199
	EncryptionFormat <NcrptnFrmt>	[0..*]	CodeSet		1199

### 31.1.3.13.1 AsymmetricEncryption <AsmmtrcNcrptn>

*Presence:* [0..1]

*Definition:* True if the security module is able to perform encryption with an asymmetric key.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

### 31.1.3.13.2 AsymmetricKeyStandardIdentification <AsmmtrcKeyStdId>

*Presence:* [0..1]

*Definition:* True if the security module is able to identify an asymmetric key with certificate issuer X.500 name and certificate serial number. False if a proprietary asymmetric key identifier is required.

*Datatype:* One of the following values must be used (see ["TrueFalseIndicator"](#) on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

### 31.1.3.13.3 AsymmetricEncryptionAlgorithm <AsmmtrcNcrptnAlgo>

*Presence:* [0..\*]

*Definition:* Asymmetric encryption algorithm the security module is able to manage.

*Datatype:* ["Algorithm7Code"](#) on page 1276

CodeName	Name	Definition
ERSA	RSASymEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSOA	RSASymEncryptionWithPadding	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

### 31.1.3.13.4 SymmetricTransportKey <SmmtrcTrnsprtKey>

*Presence:* [0..1]

**Definition:** True if the security module is able to manage a symmetric transport session key to protect cryptographic keys and data. False if only a previously exchanged symmetric key must be used; a proprietary symmetric key identifier is then used.

**Datatype:** One of the following values must be used (see "TrueFalseIndicator" on page 1314):

- *Meaning When True:* True
- *Meaning When False:* False

### 31.1.3.13.5 SymmetricTransportKeyAlgorithm <SmmtrcTrnsprtKeyAlgo>

**Presence:** [0..\*]

**Definition:** Symmetric transport session key algorithm the security module is able to manage.

**Datatype:** "Algorithm13Code" on page 1274

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) algorithm, as specified in ANSI X9.24-2009 Annex A.
UKPT	UKPT	UKPT (Unique Key Per Transaction) or Master Session Key key encryption - (ASN.1 Object Identifier: id-ukpt-wrap).
UKA1	UKPTwithAES128	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.1.3.13.6 SymmetricEncryptionAlgorithm <SmmtrcNcrptnAlgo>

*Presence:* [0..\*]

*Definition:* Symmetric encryption algorithm the security module is able to manage.

*Datatype:* "Algorithm15Code" on page 1275

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.1.3.13.7 EncryptionFormat <NcrptnFrmt>

*Presence:* [0..\*]

*Definition:* Format of data before encryption, if the format is not plaintext or implicit.

*Datatype:* "EncryptionFormat1Code" on page 1296

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

### 31.1.3.14 ATMSecurityConfiguration2

*Definition:* Configuration of the cryptographic keys.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MaximumSymmetricKey <MaxSmmtrcKey>	[0..1]	Quantity		1200
	MaximumAsymmetricKey <MaxAsmmtrcKey>	[0..1]	Quantity		1200
	MaximumRSAKeyLength <MaxRSAKeyLngth>	[0..1]	Quantity		1200
	MaximumRootKeyLength <MaxRootKeyLngth>	[0..1]	Quantity		1200

#### 31.1.3.14.1 MaximumSymmetricKey <MaxSmmtrcKey>

*Presence:* [0..1]

*Definition:* Maximum number of symmetric keys the security module is able to manage.

*Datatype:* "Number" on page 1314

#### 31.1.3.14.2 MaximumAsymmetricKey <MaxAsmmtrcKey>

*Presence:* [0..1]

*Definition:* Maximum number of asymmetric keys the security module is able to manage.

*Datatype:* "Number" on page 1314

#### 31.1.3.14.3 MaximumRSAKeyLength <MaxRSAKeyLngth>

*Presence:* [0..1]

*Definition:* Maximum RSA key length (in number of bytes), the security module is able to manage.

*Datatype:* "Number" on page 1314

#### 31.1.3.14.4 MaximumRootKeyLength <MaxRootKeyLngth>

*Presence:* [0..1]

*Definition:* Maximum RSA root key length (in number of bytes), the security module is able to manage, if different from the maximum RSA key length.

*Datatype:* "Number" on page 1314

#### 31.1.3.15 ATMSecurityConfiguration1

*Definition:* Configuration parameters in use by the security device.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Keys <Keys>	[0..1]	±		1201
	Encryption <Ncrptn>	[0..1]	±		1201
	MACAlgorithm <MACAlgo>	[0..*]	CodeSet		1201
	DigestAlgorithm <DgstAlgo>	[0..*]	CodeSet		1202
	DigitalSignature <DgtlSgntr>	[0..1]	±		1203
	PIN <PIN>	[0..1]	±		1203
	MessageProtection <MsgPrtcn>	[0..*]	CodeSet		1203



### 31.1.3.15.1 Keys <Keys>

*Presence:* [0..1]

*Definition:* Configuration of the cryptographic keys.

**Keys <Keys>** contains the following elements (see "ATMSecurityConfiguration2" on page 1199 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MaximumSymmetricKey <MaxSmmtrcKey>	[0..1]	Quantity		1200
	MaximumAsymmetricKey <MaxAsmmtrcKey>	[0..1]	Quantity		1200
	MaximumRSAKeyLength <MaxRSAKeyLngth>	[0..1]	Quantity		1200
	MaximumRootKeyLength <MaxRootKeyLngth>	[0..1]	Quantity		1200

### 31.1.3.15.2 Encryption <Ncrptn>

*Presence:* [0..1]

*Definition:* Configuration of the encryption or digital envelope, if the security module is able to perform encryption.

**Encryption <Ncrptn>** contains the following elements (see "ATMSecurityConfiguration3" on page 1196 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AsymmetricEncryption <AsmmtrcNcrptn>	[0..1]	Indicator		1197
	AsymmetricKeyStandardIdentification <AsmmtrcKeyStdId>	[0..1]	Indicator		1197
	AsymmetricEncryptionAlgorithm <AsmmtrcNcrptnAlgo>	[0..*]	CodeSet		1197
	SymmetricTransportKey <SmmtrcTrnsprtKey>	[0..1]	Indicator		1197
	SymmetricTransportKeyAlgorithm <SmmtrcTrnsprtKeyAlgo>	[0..*]	CodeSet		1198
	SymmetricEncryptionAlgorithm <SmmtrcNcrptnAlgo>	[0..*]	CodeSet		1199
	EncryptionFormat <NcrptnFrmt>	[0..*]	CodeSet		1199

### 31.1.3.15.3 MACAlgorithm <MACAlgo>

*Presence:* [0..\*]

*Definition:* MAC (Message Authentication Code) algorithm the security module is able to manage.

*Datatype:* "Algorithm12Code" on page 1273

CodeName	Name	Definition
MACC	RetailCBCMAC	Retail CBC (Chaining Block Cypher) MAC (Message Authentication Code) (cf. ISO 9807, ANSI X9.19) - (ASN.1 Object Identifier: id-retail-cbc-mac).

CodeName	Name	Definition
MCCS	RetailSHA256MAC	Retail-CBC-MAC with SHA-256 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-256).
CMA1	SHA256CMACwithAES128	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-256 digest of the message.
MCC1	RetailSHA1MAC	Retail-CBC-MAC with SHA-1 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-1).
CMA9	SHA384CMACwithAES192	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 192 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-384 digest of the message.
CMA5	SHA512CMACwithAES256	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 256 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-512 digest of the message.

#### 31.1.3.15.4 DigestAlgorithm <DgstAlgo>

*Presence:* [0..\*]

*Definition:* Digest algorithm the security module is able to manage.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).

CodeName	Name	Definition
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

### 31.1.3.15.5 DigitalSignature <DgtlSgntr>

*Presence:* [0..1]

*Definition:* Configuration of the digital signatures if the security module is able to perform digital signatures with an asymmetric key.

**DigitalSignature <DgtlSgntr>** contains the following elements (see ["ATMSecurityConfiguration4"](#) on page 1195 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MaximumCertificates <MaxCerts>	[0..1]	Quantity		1196
	MaximumSignatures <MaxSgntrs>	[0..1]	Quantity		1196
	DigitalSignatureAlgorithm <DgtlSgntrAlgo>	[0..*]	CodeSet		1196

### 31.1.3.15.6 PIN <PIN>

*Presence:* [0..1]

*Definition:* Configuration of the PIN online verification.

**PIN <PIN>** contains the following elements (see ["ATMSecurityConfiguration5"](#) on page 1194 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PINFormat <PINFrmt>	[0..*]	CodeSet		1195
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		1195

### 31.1.3.15.7 MessageProtection <MsgPrtn>

*Presence:* [0..\*]

*Definition:* Mechanism used to protect the message of the ATM protocol.

*Datatype:* ["MessageProtection1Code"](#) on page 1302

CodeName	Name	Definition
EVLP	EnvelopedMessage	Messages contain an encrypted body and a MAC or a digital signature computed on the complete message (header plus body after encryption).
MACB	MACBody	Messages contain a MAC or a digital signature computed on the body only.
MACM	MACMessage	Messages contain a MAC or a digital signature computed on the complete message (header plus body).

CodeName	Name	Definition
UNPR	NoProtection	Messages are not protected, no encryption and no MAC or digital signature.

### 31.1.3.16 ATMEquipment3

*Definition:* Hardware security module information, so called EPP for Encrypted PIN Pad.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1204
	Model <Mdl>	[0..1]	Text		1204
	Version <Vrsn>	[0..1]	Text		1204
	SerialNumber <SrINb>	[0..1]	Text		1204
	SignedSerialNumber <SgndSrINb>	[0..1]	±		1204
	FirmwareProvider <FrmwrPrvdr>	[0..1]	Text		1205
	FirmwareIdentification <Frmwrld>	[0..1]	Text		1205
	FirmwareVersion <FrmwrVrsn>	[0..1]	Text		1205

#### 31.1.3.16.1 Manufacturer <Manfctr>

*Presence:* [0..1]

*Definition:* ATM Manufacturer.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.16.2 Model <Mdl>

*Presence:* [0..1]

*Definition:* Model of ATM.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.16.3 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the device model.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.16.4 SerialNumber <SrINb>

*Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.16.5 SignedSerialNumber <SgndSrINb>

*Presence:* [0..1]

*Definition:* Signature of the serial number of the device. The signature may contain the serial number with the signature.

**SignedSerialNumber <SgndSrlNb>** contains the following elements (see "[ContentInformationType14](#)" on page 1234 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1235
	SignedData <SgndData>	[1..1]	±		1235

### 31.1.3.16.6 FirmwareProvider <FrmwrPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the firmware.

*Datatype:* "[Max35Text](#)" on page 1317

### 31.1.3.16.7 FirmwareIdentification <Frmwrld>

*Presence:* [0..1]

*Definition:* Identification of the firmware.

*Datatype:* "[Max35Text](#)" on page 1317

### 31.1.3.16.8 FirmwareVersion <FrmwrVrsn>

*Presence:* [0..1]

*Definition:* Version of the firmware.

*Datatype:* "[Max35Text](#)" on page 1317

### 31.1.3.17 AutomatedTellerMachine6

*Definition:* ATM information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1207
	AdditionalIdentification <AddtlId>	[0..1]	Text		1207
	SequenceNumber <SeqNb>	[0..1]	Text		1207
	Location <Lctn>	[0..1]			1207
	AddressLine <AdrLine>	[0..2]	Text		1208
	StreetName <StrtNm>	[0..1]	Text		1208
	BuildingNumber <BldgNb>	[0..1]	Text		1208
	PostCode <PstCd>	[0..1]	Text		1208
	TownName <TwnNm>	[1..1]	Text		1208
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1208
	Country <Ctry>	[1..1]	CodeSet	C1	1208
	GeoLocation <GLctn>	[0..1]			1209
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1209
	Latitude <Lat>	[1..1]	Text		1209
	Longitude <Long>	[1..1]	Text		1209
Or}	UTMCoordinates <UTMCordints>	[1..1]			1210
	UTMZone <UTMZone>	[1..1]	Text		1210
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1210
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1210
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1210
	Equipment <Eqpmnt>	[0..1]			1211
	Manufacturer <Manfctr>	[0..1]	Text		1211
	Model <Mdl>	[0..1]	Text		1211
	SerialNumber <SrlNb>	[0..1]	Text		1211
	ApplicationProvider <AppIPrvdr>	[0..1]	Text		1211
	ApplicationName <AppINm>	[0..1]	Text		1211
	ApplicationVersion <AppIVrsn>	[0..1]	Text		1212
	ApprovalNumber <ApprvINb>	[0..1]	Text		1212
	ConfigurationParameter <CfgrtnParam>	[0..*]			1212
	Type <Tp>	[1..1]	CodeSet		1212
	Version <Vrsn>	[1..1]	Text		1213

**31.1.3.17.1 Identification <Id>***Presence:* [1..1]*Definition:* ATM terminal device identification for the acquirer and the issuer.*Datatype:* "Max35Text" on page 1317**31.1.3.17.2 AdditionalIdentification <AddtId>***Presence:* [0..1]*Definition:* ATM terminal device identification for the ATM manager.*Datatype:* "Max35Text" on page 1317**31.1.3.17.3 SequenceNumber <SeqNb>***Presence:* [0..1]*Definition:* ATM terminal device identification for the branch.*Datatype:* "Max35Text" on page 1317**31.1.3.17.4 Location <Lctn>***Presence:* [0..1]*Definition:* Location of the ATM.**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		1208
	StreetName <StrtNm>	[0..1]	Text		1208
	BuildingNumber <BldgNb>	[0..1]	Text		1208
	PostCode <PstCd>	[0..1]	Text		1208
	TownName <TwnNm>	[1..1]	Text		1208
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1208
	Country <Ctry>	[1..1]	CodeSet	C1	1208
	GeoLocation <GLctn>	[0..1]			1209
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1209
	Latitude <Lat>	[1..1]	Text		1209
	Longitude <Long>	[1..1]	Text		1209
Or}	UTMCoordinates <UTMCordints>	[1..1]			1210
	UTMZone <UTMZone>	[1..1]	Text		1210
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1210
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1210

**31.1.3.17.4.1 AddressLine <AdrLine>**

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

**31.1.3.17.4.2 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**31.1.3.17.4.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**31.1.3.17.4.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**31.1.3.17.4.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**31.1.3.17.4.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

**31.1.3.17.4.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293



**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

**31.1.3.17.4.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1209
	Latitude <Lat>	[1..1]	Text		1209
	Longitude <Long>	[1..1]	Text		1209
Or}	UTMCoordinates <UTMCordints>	[1..1]			1210
	UTMZone <UTMZone>	[1..1]	Text		1210
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1210
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1210

**31.1.3.17.4.8.1 GeographicCoordinates <GeogcCordints>**

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		1209
	Longitude <Long>	[1..1]	Text		1209

**31.1.3.17.4.8.1.1 Latitude <Lat>**

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

**31.1.3.17.4.8.1.2 Longitude <Long>**

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.17.4.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		1210
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1210
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1210

##### 31.1.3.17.4.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.17.4.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

##### 31.1.3.17.4.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

#### 31.1.3.17.5 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* "TransactionEnvironment2Code" on page 1311

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

### 31.1.3.17.6 Equipment <Eqpmnt>

*Presence:* [0..1]

*Definition:* ATM terminal equipment.

**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1211
	Model <Mdl>	[0..1]	Text		1211
	SerialNumber <SrINb>	[0..1]	Text		1211
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1211
	ApplicationName <ApplNm>	[0..1]	Text		1211
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1212
	ApprovalNumber <ApprvINb>	[0..1]	Text		1212
	ConfigurationParameter <CfgtnParam>	[0..*]			1212
	Type <Tp>	[1..1]	CodeSet		1212
	Version <Vrsn>	[1..1]	Text		1213

#### 31.1.3.17.6.1 Manufacturer <Manfctr>

*Presence:* [0..1]

*Definition:* ATM Manufacturer.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.17.6.2 Model <Mdl>

*Presence:* [0..1]

*Definition:* Model of ATM.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.17.6.3 SerialNumber <SrINb>

*Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.17.6.4 ApplicationProvider <ApplPrvdr>

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.17.6.5 ApplicationName <ApplNm>

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.17.6.6 ApplicationVersion <ApplVrsn>

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.17.6.7 ApprovalNumber <ApprvINb>

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.17.6.8 ConfigurationParameter <CfgtnParam>

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		1212
	Version <Vrsn>	[1..1]	Text		1213

#### 31.1.3.17.6.8.1 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* "DataSetCategory7Code" on page 1296

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.

CodeName	Name	Definition
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 31.1.3.17.6.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.18 AutomatedTellerMachine5

*Definition:* ATM information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1215
	AdditionalIdentification <AddtlId>	[0..1]	Text		1215
	SequenceNumber <SeqNb>	[0..1]	Text		1215
	BaseCurrency <BaseCcy>	[1..1]	CodeSet	C1	1215
	Location <Lctn>	[0..1]			1215
	AddressLine <AdrLine>	[0..2]	Text		1216
	StreetName <StrtNm>	[0..1]	Text		1216
	BuildingNumber <BldgNb>	[0..1]	Text		1216
	PostCode <PstCd>	[0..1]	Text		1216
	TownName <TwnNm>	[1..1]	Text		1217
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1217
	Country <Ctry>	[1..1]	CodeSet	C1	1217
	GeoLocation <GLctn>	[0..1]			1217
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1217
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218
Or}	UTMCoordinates <UTMCordints>	[1..1]			1218
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1219
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		1219
	Equipment <Eqpmnt>	[0..1]			1219
	Manufacturer <Manfctr>	[0..1]	Text		1219
	Model <Mdl>	[0..1]	Text		1220
	SerialNumber <SrlNb>	[0..1]	Text		1220
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1220
	ApplicationName <ApplNm>	[0..1]	Text		1220
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1220
	ApprovalNumber <ApprvlNb>	[0..1]	Text		1220
	ConfigurationParameter <CfgrtnParam>	[0..*]			1220
	Type <Tp>	[1..1]	CodeSet		1220

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[1..1]	Text		1221
	OutOfServiceDevice <OutOfSvcDvc>	[0..*]	CodeSet		1221
	MessageProtection <MsgPrtc>	[0..1]	CodeSet		1222

### 31.1.3.18.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.18.2 AdditionalIdentification <AddtlId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.18.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.18.4 BaseCurrency <BaseCcy>

*Presence:* [1..1]

*Definition:* Reference currency of the ATM.

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### 31.1.3.18.5 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		1216
	StreetName <StrtNm>	[0..1]	Text		1216
	BuildingNumber <BldgNb>	[0..1]	Text		1216
	PostCode <PstCd>	[0..1]	Text		1216
	TownName <TwnNm>	[1..1]	Text		1217
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1217
	Country <Ctry>	[1..1]	CodeSet	C1	1217
	GeoLocation <GLctn>	[0..1]			1217
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1217
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218
Or}	UTMCoordinates <UTMCordints>	[1..1]			1218
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1219

#### 31.1.3.18.5.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.18.5.2 StreetName <StrtNm>

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.18.5.3 BuildingNumber <BldgNb>

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.18.5.4 PostCode <PstCd>

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.



*Datatype:* "Max16Text" on page 1316

### 31.1.3.18.5.5 TownName <TwnNm>

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.18.5.6 CountrySubDivision <CtrySubDvsn>

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.18.5.7 Country <Ctry>

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293

#### Constraints

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### 31.1.3.18.5.8 GeoLocation <GLctn>

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1217
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218
Or}	UTMCoordinates <UTMCordints>	[1..1]			1218
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1219

#### 31.1.3.18.5.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		1218
	Longitude <Long>	[1..1]	Text		1218

#### 31.1.3.18.5.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.18.5.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.18.5.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		1218
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1218
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1219

##### 31.1.3.18.5.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.18.5.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* ["Number" on page 1314](#)

### 31.1.3.18.5.8.2.3 UTMNorthward <UTMNrthwrd>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* ["Number" on page 1314](#)

### 31.1.3.18.6 LocationCategory <LctnCtgy>

*Presence:* [0..1]

*Definition:* Indicates the environment of the transaction.

*Datatype:* ["TransactionEnvironment2Code" on page 1311](#)

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

### 31.1.3.18.7 Equipment <Eqpmnt>

*Presence:* [0..1]

*Definition:* ATM terminal equipment.

**Equipment <Eqpmnt>** contains the following **ATMEquipment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Manufacturer <Manfctr>	[0..1]	Text		1219
	Model <Mdl>	[0..1]	Text		1220
	SerialNumber <SrINb>	[0..1]	Text		1220
	ApplicationProvider <ApplPrvdr>	[0..1]	Text		1220
	ApplicationName <ApplNm>	[0..1]	Text		1220
	ApplicationVersion <ApplVrsn>	[0..1]	Text		1220
	ApprovalNumber <ApprvINb>	[0..1]	Text		1220
	ConfigurationParameter <CfgrtnParam>	[0..*]			1220
	Type <Tp>	[1..1]	CodeSet		1220
	Version <Vrsn>	[1..1]	Text		1221

#### 31.1.3.18.7.1 Manufacturer <Manfctr>

*Presence:* [0..1]

*Definition:* ATM Manufacturer.

*Datatype:* ["Max35Text" on page 1317](#)

**31.1.3.18.7.2 Model <Mdl>**

*Presence:* [0..1]

*Definition:* Model of ATM.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.3 SerialNumber <SrINb>**

*Presence:* [0..1]

*Definition:* Serial number of the ATM.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.4 ApplicationProvider <ApplPrvdr>**

*Presence:* [0..1]

*Definition:* Provider of the ATM application software.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.5 ApplicationName <ApplNm>**

*Presence:* [0..1]

*Definition:* Name of the software product.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.6 ApplicationVersion <ApplVrsn>**

*Presence:* [0..1]

*Definition:* Current version of the software that might include the release number.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.7 ApprovalNumber <ApprvINb>**

*Presence:* [0..1]

*Definition:* Unique assessment number for the component.

*Datatype:* "Max35Text" on page 1317

**31.1.3.18.7.8 ConfigurationParameter <CfgtnParam>**

*Presence:* [0..\*]

*Definition:* Configuration parameter version.

**ConfigurationParameter <CfgtnParam>** contains the following **ATMConfigurationParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		1220
	Version <Vrsn>	[1..1]	Text		1221

**31.1.3.18.7.8.1 Type <Tp>**

*Presence:* [1..1]

*Definition:* Type of the ATM configuration.

*Datatype:* ["DataSetCategory7Code" on page 1296](#)

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMProtocol	ATM protocol parameters, including the configuration of the hosts.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

#### 31.1.3.18.7.8.2 Version <Vrsn>

*Presence:* [1..1]

*Definition:* Active version of the configuration.

*Datatype:* ["Max35Text" on page 1317](#)

#### 31.1.3.18.8 OutOfServiceDevice <OutOfSvcDvc>

*Presence:* [0..\*]

*Definition:* List of ATM devices out of service.

*Datatype:* ["ATMDevice2Code" on page 1280](#)

CodeName	Name	Definition
ALRM	AlarmSensors	Alarm sensors, such as tamper, seismic or heat sensors.
BRCD	BarCodeReader	Device scanning barcodes using any scanning technology.
CAMR	Camera	Camera, recorder, video mixer.
CRDD	CardDispenser	Device dispensing card to a consumer.
CRDR	CardUnit	Device to read and optionally write card with various entry modes.
CSHD	CashDispenser	Device dispensing cash in an automated environment, or with an operator present.
CSHI	CashInModule	Device accepting in-out of items as coupons, documents, bills and coins.

CodeName	Name	Definition
CSHR	CashRecycler	Compound device with cash in module, cash dispenser, and cash exchange.
CHCK	CheckReader	Check reader and check image scanner.
CDIS	CustomerConsole	Customer display and keyboard.
DPST	Deposit	Device for the deposit of media in envelopes or deposit of bags containing bulk media.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
DOOR	DoorSensors	Door sensors, such as cabinet, safe or vandal shield doors.
INPM	InputProcessingModule	Self service device processing items.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
SNSR	OtherSensor	Other sensors and indicators unit.
PSBK	PassbookPrinter	Passbook device supporting automatic positioning of the book.
PINR	PINKeypad	Hardware security module allowing the PIN (Personal Identification Number) entry, secure storing of cryptographic keys, and other cryptographic functions.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
SCAN	ScannerPrinter	Device incorporating both the capabilities to scan inserted documents and optionally to print on them.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

### 31.1.3.18.9 MessageProtection <MsgPrtn>

*Presence:* [0..1]

*Definition:* Mechanism used to protect the message of the ATM protocol.

*Datatype:* "MessageProtection1Code" on page 1302

CodeName	Name	Definition
EVLP	EnvelopedMessage	Messages contain an encrypted body and a MAC or a digital signature computed on the complete message (header plus body after encryption).
MACB	MACBody	Messages contain a MAC or a digital signature computed on the body only.
MACM	MACMessage	Messages contain a MAC or a digital signature computed on the complete message (header plus body).

CodeName	Name	Definition
UNPR	NoProtection	Messages are not protected, no encryption and no MAC or digital signature.

### 31.1.3.19 AutomatedTellerMachine3

*Definition:* ATM information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1223
	AdditionalIdentification <AddtId>	[0..1]	Text		1223
	SequenceNumber <SeqNb>	[0..1]	Text		1224
	Location <Lctn>	[0..1]			1224
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1227

#### 31.1.3.19.1 Identification <Id>

*Presence:* [1..1]

*Definition:* ATM terminal device identification for the acquirer and the issuer.

*Datatype:* "Max35Text" on page 1317

#### 31.1.3.19.2 AdditionalIdentification <AddtId>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the ATM manager.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.19.3 SequenceNumber <SeqNb>

*Presence:* [0..1]

*Definition:* ATM terminal device identification for the branch.

*Datatype:* "Max35Text" on page 1317

### 31.1.3.19.4 Location <Lctn>

*Presence:* [0..1]

*Definition:* Location of the ATM.

**Location <Lctn>** contains the following **PostalAddress17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		1224
	StreetName <StrtNm>	[0..1]	Text		1224
	BuildingNumber <BldgNb>	[0..1]	Text		1225
	PostCode <PstCd>	[0..1]	Text		1225
	TownName <TwnNm>	[1..1]	Text		1225
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		1225
	Country <Ctry>	[1..1]	CodeSet	C1	1225
	GeoLocation <GLctn>	[0..1]			1225
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

#### 31.1.3.19.4.1 AddressLine <AdrLine>

*Presence:* [0..2]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

#### 31.1.3.19.4.2 StreetName <StrtNm>

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.



*Datatype:* "Max70Text" on page 1318

#### **31.1.3.19.4.3 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

#### **31.1.3.19.4.4 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

#### **31.1.3.19.4.5 TownName <TwnNm>**

*Presence:* [1..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

#### **31.1.3.19.4.6 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..2]

*Definition:* Identifies a subdivision of a country, for instance state, region, county.

*Datatype:* "Max35Text" on page 1317

#### **31.1.3.19.4.7 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government, occupying a particular territory.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293

#### **Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

#### **31.1.3.19.4.8 GeoLocation <GLctn>**

*Presence:* [0..1]

*Definition:* Geographic location of the ATM specified by geographic coordinates or UTM coordinates.

**GeoLocation <GLctn>** contains one of the following **GeographicLocation1Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	GeographicCoordinates <GeogcCordints>	[1..1]			1226
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226
Or}	UTMCoordinates <UTMCordints>	[1..1]			1226
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwrdr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwrdr>	[1..1]	Quantity		1227

#### 31.1.3.19.4.8.1 GeographicCoordinates <GeogcCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by two numbers representing vertical and horizontal position.

**GeographicCoordinates <GeogcCordints>** contains the following **GeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		1226
	Longitude <Long>	[1..1]	Text		1226

##### 31.1.3.19.4.8.1.1 Latitude <Lat>

*Presence:* [1..1]

*Definition:* Latitude measured in degrees, minutes and seconds, following by 'N' for the north and 'S' for the south of the equator (for example 48°51'29" N for the Eiffel Tower latitude).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.19.4.8.1.2 Longitude <Long>

*Presence:* [1..1]

*Definition:* Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

The longitude is measured in degrees, minutes and seconds, following by 'E' for the east and 'W' for the west (for example 2°17'40" E for the Eiffel Tower longitude).

*Datatype:* "Max16Text" on page 1316

##### 31.1.3.19.4.8.2 UTMCoordinates <UTMCordints>

*Presence:* [1..1]

*Definition:* Location on the earth specified by the Universal Transverse Mercator coordinate system, using the WGS84 geodesic system.

**UTMCoordinates <UTMCordints>** contains the following **UTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		1227
	UTMEastward <UTMEstwr>	[1..1]	Quantity		1227
	UTMNorthward <UTMNrthwr>	[1..1]	Quantity		1227

#### 31.1.3.19.4.8.2.1 UTMZone <UTMZone>

*Presence:* [1..1]

*Definition:* UTM grid zone combination of the longitude zone (1 to 60) and the latitude band, C to X, excluding I and O (for example Eiffel tower UTM zone is 31U).

*Datatype:* "Max16Text" on page 1316

#### 31.1.3.19.4.8.2.2 UTMEastward <UTMEstwr>

*Presence:* [1..1]

*Definition:* X-coordinate of the Universal Transverse Mercator coordinate system in meters (for example 448 265m for Eiffel Tower X-coordinate).

*Datatype:* "Number" on page 1314

#### 31.1.3.19.4.8.2.3 UTMNorthward <UTMNrthwr>

*Presence:* [1..1]

*Definition:* Y-coordinate of the Universal Transverse Mercator coordinate system (for example 5 411 920m for Eiffel Tower Y-coordinate).

*Datatype:* "Number" on page 1314

## 31.1.4 Currency Exchange

### 31.1.4.1 CurrencyConversion5

*Definition:* Exchange rate and calculated amount to be presented to the customer when the dispense currency or the deposit currency (target currency) is different to account currency (source currency).

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SourceCurrency <SrcCcy>	[1..1]	CodeSet	C1	1227
	SourceCurrencyNumeric <SrcCcyNmrc>	[1..1]	CodeSet	C1	1228
	TargetCurrency <TrgtCcy>	[1..1]	CodeSet	C1	1228
	TargetCurrencyNumeric <TrgtCcyNmrc>	[1..1]	Text		1228
	Rate <Rate>	[1..1]	Rate		1228
	CalculatedAmount <ClctdAmt>	[1..1]	Amount		1229

#### 31.1.4.1.1 SourceCurrency <SrcCcy>

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **31.1.4.1.2 SourceCurrencyNumeric <SrcCcyNmrc>**

*Presence:* [1..1]

*Definition:* Currency from which the amount is converted (ISO 4217, 3 numeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **31.1.4.1.3 TargetCurrency <TrgtCcy>**

*Presence:* [1..1]

*Definition:* Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

*Impacted by:* C1 "ActiveCurrency"

*Datatype:* "ActiveCurrencyCode" on page 1272

#### **Constraints**

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217 Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

#### **31.1.4.1.4 TargetCurrencyNumeric <TrgtCcyNmrc>**

*Presence:* [1..1]

*Definition:* Currency into which the amount is converted (ISO 4217, 3 numeric characters).

*Datatype:* "Exact3NumericText" on page 1315

#### **31.1.4.1.5 Rate <Rate>**

*Presence:* [1..1]

*Definition:* Currency exchange rate.

*Datatype:* ["BaseOneRate" on page 1314](#)

### 31.1.4.1.6 CalculatedAmount <ClctdAmt>

*Presence:* [1..1]

*Definition:* Resulting calculated amount is in target currency.

*Datatype:* ["ImpliedCurrencyAndAmount" on page 1269](#)

## 31.1.5 Identification Information

### 31.1.5.1 GenericIdentification1

*Definition:* Information related to an identification, eg, party identification or account identification.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1229
	SchemeName <SchmeNm>	[0..1]	Text		1229
	Issuer <Issr>	[0..1]	Text		1229

#### 31.1.5.1.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification assigned by an institution.

*Datatype:* ["Max35Text" on page 1317](#)

#### 31.1.5.1.2 SchemeName <SchmeNm>

*Presence:* [0..1]

*Definition:* Name of the identification scheme.

*Datatype:* ["Max35Text" on page 1317](#)

#### 31.1.5.1.3 Issuer <Issr>

*Presence:* [0..1]

*Definition:* Entity that assigns the identification.

*Datatype:* ["Max35Text" on page 1317](#)

### 31.1.5.2 GenericIdentification77

*Definition:* Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		1230
	Type <Tp>	[1..1]	CodeSet		1230
	Issuer <Issr>	[0..1]	CodeSet		1230
	Country <Ctry>	[0..1]	Text		1231
	ShortName <ShrtNm>	[0..1]	Text		1231

#### 31.1.5.2.1 Identification <Id>

*Presence:* [1..1]

*Definition:* Identification of the entity.

*Datatype:* "Max35Text" on page 1317

#### 31.1.5.2.2 Type <Tp>

*Presence:* [1..1]

*Definition:* Type of identified entity.

*Datatype:* "PartyType12Code" on page 1303

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
DLIS	DelegatelIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OATM	OriginatingATM	ATM initiating the transaction.

#### 31.1.5.2.3 Issuer <Issr>

*Presence:* [0..1]

*Definition:* Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

*Datatype:* "PartyType12Code" on page 1303

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.

CodeName	Name	Definition
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OATM	OriginatingATM	ATM initiating the transaction.

#### 31.1.5.2.4 Country <Ctry>

*Presence:* [0..1]

*Definition:* Country of the entity (ISO 3166-1 alpha-2 or alpha-3)

*Datatype:* "Min2Max3AlphaText" on page 1319

#### 31.1.5.2.5 ShortName <ShrtNm>

*Presence:* [0..1]

*Definition:* Name of the entity.

*Datatype:* "Max35Text" on page 1317

## 31.1.6 Miscellaneous

### 31.1.6.1 AuthenticatedData4

*Definition:* Message authentication code (MAC), computed on the data to protect with an encryption key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1231
	Recipient <Rcpt>	[1..*]	±		1231
	MACAlgorithm <MACAlgo>	[1..1]	±		1233
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1233
	MAC <MAC>	[1..1]	Binary		1233

#### 31.1.6.1.1 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the data structure.

*Datatype:* "Number" on page 1314

#### 31.1.6.1.2 Recipient <Rcpt>

*Presence:* [1..\*]

*Definition:* Session key or protection key identification used by the recipient.

**Recipient <Rcpt>** contains one of the following elements (see "Recipient4Choice" on page 1240 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			1242
	Version <Vrsn>	[0..1]	Quantity		1242
	RecipientIdentification <RcptId>	[1..1]			1242
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1243
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1244
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1245
	Algorithm <Algo>	[1..1]	CodeSet		1245
	Parameter <Param>	[0..1]			1245
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1248
Or	KEK <KEK>	[1..1]			1248
	Version <Vrsn>	[0..1]	Quantity		1248
	KEKIdentification <KEKId>	[1..1]	±		1248
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1249
	Algorithm <Algo>	[1..1]	CodeSet		1249
	Parameter <Param>	[0..1]			1250
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstrVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1251



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1251

### 31.1.6.1.3 MACAlgorithm <MACAlgo>

*Presence:* [1..1]

*Definition:* Algorithm to compute message authentication code (MAC).

**MACAlgorithm <MACAlgo>** contains the following elements (see "[AlgorithmIdentification15](#)" on page 1238 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1238
	Parameter <Param>	[0..1]			1239
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		1239
	BytePadding <BPddg>	[0..1]	CodeSet		1239

### 31.1.6.1.4 EncapsulatedContent <NcpsltdCntt>

*Presence:* [1..1]

*Definition:* Data to authenticate.

**EncapsulatedContent <NcpsltdCntt>** contains the following elements (see "[EncapsulatedContent3](#)" on page 1237 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1237
	Content <Cntt>	[0..1]	Binary		1238

### 31.1.6.1.5 MAC <MAC>

*Presence:* [1..1]

*Definition:* Message authentication code value.

*Datatype:* "[Max140Binary](#)" on page 1270

### 31.1.6.2 ContentInformationType10

*Definition:* General cryptographic message syntax (CMS) containing encrypted data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1233
	EnvelopedData <EnvlpdData>	[1..1]	±		1234

#### 31.1.6.2.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 31.1.6.2.2 EnvelopedData <EnvlpdData>

*Presence:* [1..1]

*Definition:* Data protection by encryption or by a digital envelope, with an encryption key.

**EnvelopedData <EnvlpdData>** contains the following elements (see "EnvelopedData4" on page 1262 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1262
	Recipient <Rcpt>	[1..*]	±		1262
	EncryptedContent <NcrptdCntt>	[0..1]			1264
	ContentType <CnttTp>	[1..1]	CodeSet		1264
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			1264
	Algorithm <Algo>	[1..1]	CodeSet		1265
	Parameter <Param>	[0..1]			1265
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1266
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1266
	BytePadding <BPddg>	[0..1]	CodeSet		1266
	EncryptedData <NcrptdData>	[1..1]	Binary		1266

### 31.1.6.3 ContentInformationType14

*Definition:* General cryptographic message syntax (CMS) containing data. protected by a digital signature

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1235
	SignedData <SgndData>	[1..1]	±		1235

### 31.1.6.3.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data protection.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 31.1.6.3.2 SignedData <SgndData>

*Presence:* [1..1]

*Definition:* Data protected by a digital signatures.

**SignedData <SgndData>** contains the following elements (see "SignedData4" on page 1252 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

### 31.1.6.4 TerminalHosting1

*Definition:* Entity hosting the ATM terminal.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Category <Ctgy>	[0..1]	CodeSet		1237
	Identification <Id>	[0..1]	Text		1237

#### 31.1.6.4.1 Category <Ctgy>

*Presence:* [0..1]

*Definition:* Type of ATM terminal hosting.

*Datatype:* "TransactionEnvironment3Code" on page 1311

CodeName	Name	Definition
BRCH	Branch	Bank environment.
MERC	Merchant	Merchant environment.
OTHR	Other	Other environments, for instance a mall or an airport.

#### 31.1.6.4.2 Identification <Id>

*Presence:* [0..1]

*Definition:* Identify the entity hosting the ATM.

*Datatype:* "Max35Text" on page 1317

#### 31.1.6.5 EncapsulatedContent3

*Definition:* Data to authenticate.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1237
	Content <Cntt>	[0..1]	Binary		1238

##### 31.1.6.5.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data which have been authenticated.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).

CodeName	Name	Definition
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 31.1.6.5.2 Content <Cntt>

*Presence:* [0..1]

*Definition:* Actual data to authenticate.

*Datatype:* "Max100KBinary" on page 1270

### 31.1.6.6 AlgorithmIdentification15

*Definition:* Identification of a cryptographic algorithm and parameters for the MAC computation.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1238
	Parameter <Param>	[0..1]			1239
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1239
	BytePadding <BPddg>	[0..1]	CodeSet		1239

#### 31.1.6.6.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the MAC algorithm.

*Datatype:* "Algorithm12Code" on page 1273

CodeName	Name	Definition
MACC	RetailCBCMAC	Retail CBC (Chaining Block Cypher) MAC (Message Authentication Code) (cf. ISO 9807, ANSI X9.19) - (ASN.1 Object Identifier: id-retail-cbc-mac).
MCCS	RetailSHA256MAC	Retail-CBC-MAC with SHA-256 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-256).
CMA1	SHA256CMACwithAES128	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-256 digest of the message.

CodeName	Name	Definition
MCC1	RetailSHA1MAC	Retail-CBC-MAC with SHA-1 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-1).
CMA9	SHA384CMACwithAES192	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 192 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-384 digest of the message.
CMA5	SHA512CMACwithAES256	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 256 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-512 digest of the message.

### 31.1.6.6.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters associated to the MAC algorithm.

**Parameter <Param>** contains the following **Parameter7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1239
	BytePadding <BPddg>	[0..1]	CodeSet		1239

#### 31.1.6.6.2.1 InitialisationVector <InitlstnVctr>

*Presence:* [0..1]

*Definition:* Initialisation vector of a cipher block chaining (CBC) mode encryption.

*Datatype:* "Max500Binary" on page 1271

#### 31.1.6.6.2.2 BytePadding <BPddg>

*Presence:* [0..1]

*Definition:* Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

*Datatype:* "BytePadding1Code" on page 1290

CodeName	Name	Definition
LNGT	LengthPadding	Message to encrypt is completed by a byte value containing the total number of added bytes.
NUL8	Null80Padding	Message to encrypt is completed by one bit of value 1, followed by null bits until the encryption block length is reached.
NULG	NullLengthPadding	Message to encrypt is completed by null byte values, the last byte containing the total number of added bytes.
NULL	NullPadding	Message to encrypt is completed by null bytes.
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

### 31.1.6.7 Recipient4Choice

*Definition:* Transport key or key encryption key (KEK) for the recipient.



Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			1242
	Version <Vrsn>	[0..1]	Quantity		1242
	RecipientIdentification <RcptId>	[1..1]			1242
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1243
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1244
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1245
	Algorithm <Algo>	[1..1]	CodeSet		1245
	Parameter <Param>	[0..1]			1245
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1248
Or	KEK <KEK>	[1..1]			1248
	Version <Vrsn>	[0..1]	Quantity		1248
	KEKIdentification <KEKId>	[1..1]	±		1248
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1249
	Algorithm <Algo>	[1..1]	CodeSet		1249
	Parameter <Param>	[0..1]			1250
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1251
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1251

**31.1.6.7.1 KeyTransport <KeyTrnsprt>***Presence:* [1..1]*Definition:* Encryption key using previously distributed asymmetric public key.**KeyTransport <KeyTrnsprt>** contains the following **KeyTransport4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1242
	RecipientIdentification <RcptId>	[1..1]			1242
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1243
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1244
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1245
	Algorithm <Algo>	[1..1]	CodeSet		1245
	Parameter <Param>	[0..1]			1245
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1248

**31.1.6.7.1.1 Version <Vrsn>***Presence:* [0..1]*Definition:* Version of the data structure.*Datatype:* "Number" on page 1314**31.1.6.7.1.2 RecipientIdentification <RcptId>***Presence:* [1..1]*Definition:* Identification of a cryptographic asymmetric key for the recipient.

**RecipientIdentification <RcptId>** contains one of the following **Recipient5Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1243
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1244

#### 31.1.6.7.1.2.1 IssuerAndSerialNumber <IssrAndSrlNb>

*Presence:* [1..1]

*Definition:* Certificate issuer name and serial number (see ITU X.509).

**IssuerAndSerialNumber <IssrAndSrlNb>** contains the following **IssuerAndSerialNumber1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244

#### 31.1.6.7.1.2.1.1 Issuer <Issr>

*Presence:* [1..1]

*Definition:* Certificate issuer name (see X.509).

**Issuer <Issr>** contains the following **CertificateIssuer1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244

#### 31.1.6.7.1.2.1.1.1 RelativeDistinguishedName <RltvDstngshdNm>

*Presence:* [1..\*]

*Definition:* Relative distinguished name inside a X.509 certificate.

**RelativeDistinguishedName <RltvDstngshdNm>** contains the following **RelativeDistinguishedName1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244

#### 31.1.6.7.1.2.1.1.1.1 AttributeType <AttrTp>

*Presence:* [1..1]

*Definition:* Type of attribute of a distinguished name (see X.500).

*Datatype:* "AttributeType1Code" on page 1289

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

#### 31.1.6.7.1.2.1.1.1.2 AttributeValue <AttrVal>

*Presence:* [1..1]

*Definition:* Value of the attribute of a distinguished name (see X.500).

*Datatype:* "Max140Text" on page 1316

#### 31.1.6.7.1.2.1.2 SerialNumber <SrINb>

*Presence:* [1..1]

*Definition:* Certificate serial number (see X.509).

*Datatype:* "Max35Binary" on page 1270

#### 31.1.6.7.1.2.2 KeyIdentifier <Keyldr>

*Presence:* [1..1]

*Definition:* Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

**KeyIdentifier <Keyldr>** contains the following elements (see "KEKIdentifier2" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		1165
	KeyVersion <KeyVrsn>	[1..1]	Text		1165
	SequenceNumber <SeqNb>	[0..1]	Quantity		1165
	DerivationIdentification <DerivtnId>	[0..1]	Binary		1165

### 31.1.6.7.1.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

*Presence:* [1..1]

*Definition:* Algorithm to encrypt the key encryption key (KEK).

**KeyEncryptionAlgorithm <KeyNcrptnAlgo>** contains the following **AlgorithmIdentification11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1245
	Parameter <Param>	[0..1]			1245
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247

### 31.1.6.7.1.3.1 Algorithm <Algo>

*Presence:* [1..1]

**Definition:** Asymmetric encryption algorithm of a transport key.

*Datatype:* "Algorithm7Code" on page 1276

CodeName	Name	Definition
ERSA	RSAEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSAO	RSAAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

### 31.1.6.7.1.3.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters of the encryption algorithm.

**Parameter <Param>** contains the following **Parameter4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247

#### 31.1.6.7.1.3.2.1 EncryptionFormat <NcrptnFrmt>

*Presence:* [0..1]

*Definition:* Format of data before encryption, if the format is not plaintext or implicit.

*Datatype:* "EncryptionFormat1Code" on page 1296

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

#### 31.1.6.7.1.3.2.2 DigestAlgorithm <DgstAlgo>

*Presence:* [0..1]

*Definition:* Identification of the digest algorithm.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

#### 31.1.6.7.1.3.2.3 MaskGeneratorAlgorithm <MskGnrtrAlgo>

*Presence:* [0..1]

*Definition:* Mask generator function cryptographic algorithm and parameters.

**MaskGeneratorAlgorithm <MskGnrtrAlgo>** contains the following **AlgorithmIdentification12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247

### 31.1.6.7.1.3.2.3.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Mask generator function cryptographic algorithm.

*Datatype:* "Algorithm8Code" on page 1276

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

### 31.1.6.7.1.3.2.3.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters associated to the mask generator function cryptographic algorithm

**Parameter <Param>** contains the following **Parameter5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247

### 31.1.6.7.1.3.2.3.2.1 DigestAlgorithm <DgstAlgo>

*Presence:* [0..1]

*Definition:* Digest algorithm used in the mask generator function.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

**31.1.6.7.1.4 EncryptedKey <NcrptdKey>***Presence:* [1..1]*Definition:* Encrypted key encryption key (KEK).*Datatype:* "Max5000Binary" on page 1271**31.1.6.7.2 KEK <KEK>***Presence:* [1..1]*Definition:* Key encryption key using previously distributed symmetric key.**KEK <KEK>** contains the following **KEK4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1248
	KEKIdentification <KEKId>	[1..1]	±		1248
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1249
	Algorithm <Algo>	[1..1]	CodeSet		1249
	Parameter <Param>	[0..1]			1250
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1251

**31.1.6.7.2.1 Version <Vrsn>***Presence:* [0..1]*Definition:* Version of the data structure.*Datatype:* "Number" on page 1314**31.1.6.7.2.2 KEKIdentification <KEKId>***Presence:* [1..1]*Definition:* Identification of the key encryption key (KEK).**KEKIdentification <KEKId>** contains the following elements (see "KEKIdentifier2" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		1165
	KeyVersion <KeyVrsn>	[1..1]	Text		1165
	SequenceNumber <SeqNb>	[0..1]	Quantity		1165
	DerivationIdentification <DerivtnId>	[0..1]	Binary		1165



### 31.1.6.7.2.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

*Presence:* [1..1]

*Definition:* Algorithm to encrypt the key encryption key (KEK).

**KeyEncryptionAlgorithm <KeyNcrptnAlgo>** contains the following **AlgorithmIdentification13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1249
	Parameter <Param>	[0..1]			1250
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250

#### 31.1.6.7.2.3.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the algorithm.

*Datatype:* "Algorithm13Code" on page 1274

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) algorithm, as specified in ANSI X9.24-2009 Annex A.
UKPT	UKPT	UKPT (Unique Key Per Transaction) or Master Session Key key encryption - (ASN.1 Object Identifier: id-ukpt-wrap).
UKA1	UKPTwithAES128	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 -

CodeName	Name	Definition
		November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.1.6.7.2.3.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters associated to the encryption algorithm.

**Parameter <Param>** contains the following **Parameter6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250

#### 31.1.6.7.2.3.2.1 EncryptionFormat <NcrptnFrmt>

*Presence:* [0..1]

*Definition:* Format of data before encryption, if the format is not plaintext or implicit.

*Datatype:* "EncryptionFormat1Code" on page 1296

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

#### 31.1.6.7.2.3.2.2 InitialisationVector <InitlstnVctr>

*Presence:* [0..1]

*Definition:* Initialisation vector of a cipher block chaining (CBC) mode encryption.

*Datatype:* "Max500Binary" on page 1271

#### 31.1.6.7.2.3.2.3 BytePadding <BPddg>

*Presence:* [0..1]

*Definition:* Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

*Datatype:* "BytePadding1Code" on page 1290

CodeName	Name	Definition
LNGT	LengthPadding	Message to encrypt is completed by a byte value containing the total number of added bytes.

CodeName	Name	Definition
NUL8	Null80Padding	Message to encrypt is completed by one bit of value 1, followed by null bits until the encryption block length is reached.
NULG	NullLengthPadding	Message to encrypt is completed by null byte values, the last byte containing the total number of added bytes.
NULL	NullPadding	Message to encrypt is completed by null bytes.
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

#### 31.1.6.7.2.4 EncryptedKey <NcrptdKey>

*Presence:* [1..1]

*Definition:* Encrypted key encryption key (KEK).

*Datatype:* "Max500Binary" on page 1271

#### 31.1.6.7.3 KeyIdentifier <Keyldr>

*Presence:* [1..1]

*Definition:* Identification of a protection key without a session key, shared and previously exchanged between the initiator and the recipient.

**KeyIdentifier <Keyldr>** contains the following elements (see "KEKIdentifier2" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <Keyld>	[1..1]	Text		1165
	KeyVersion <KeyVrsn>	[1..1]	Text		1165
	SequenceNumber <SeqNb>	[0..1]	Quantity		1165
	DerivationIdentification <Derivtnld>	[0..1]	Binary		1165

#### 31.1.6.8 TransactionIdentifier1

*Definition:* Identification of the transaction in an unambiguous way.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		1251
	TransactionReference <TxRef>	[1..1]	Text		1252

#### 31.1.6.8.1 TransactionDateTime <TxDtTm>

*Presence:* [1..1]

*Definition:* Local date and time of the transaction assigned by the POI (Point Of Interaction).

*Datatype:* "ISODateTime" on page 1312

#### **31.1.6.8.2 TransactionReference <TxRef>**

*Presence:* [1..1]

*Definition:* Identification of the transaction that has to be unique for a time period.

*Datatype:* "Max35Text" on page 1317

#### **31.1.6.9 SignedData4**

*Definition:* Digital signatures of data from one or several signers.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1253
	DigestAlgorithm <DgstAlgo>	[1..*]			1254
	Algorithm <Algo>	[1..1]	CodeSet		1254
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		1254
	Certificate <Cert>	[0..*]	Binary		1254
	Signer <Sgnr>	[1..*]			1255
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

### 31.1.6.9.1 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the data structure.

*Datatype:* "Number" on page 1314

### 31.1.6.9.2 DigestAlgorithm <DgstAlgo>

*Presence:* [1..\*]

*Definition:* Identification of digest algorithm applied before signature.

**DigestAlgorithm <DgstAlgo>** contains the following **AlgorithmIdentification16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1254

#### 31.1.6.9.2.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the digest algorithm.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

### 31.1.6.9.3 EncapsulatedContent <NcpsltdCntt>

*Presence:* [1..1]

*Definition:* Data to sign.

**EncapsulatedContent <NcpsltdCntt>** contains the following elements (see ["EncapsulatedContent3" on page 1237](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1237
	Content <Cntt>	[0..1]	Binary		1238

#### 31.1.6.9.4 Certificate <Cert>

*Presence:* [0..\*]

*Definition:* Chain of X.509 certificates.

*Datatype:* "Max5000Binary" on page 1271

### 31.1.6.9.5 Signer <Sgnr>

*Presence:* [1..\*]

*Definition:* Digital signature and identification of a signer.

**Signer <Sgnr>** contains the following **Signer3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1255
	SignerIdentification <SgnrId>	[0..1]			1255
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1256
	Issuer </issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrlNb>	[1..1]	Binary		1257
Or}	KeyIdentifier <Keyldr>	[1..1]	±		1257
	DigestAlgorithm <DgstAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1258
	SignatureAlgorithm <SgntrAlgo>	[1..1]			1258
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261
	Signature <Sgntr>	[1..1]	Binary		1262

#### 31.1.6.9.5.1 Version <Vrsn>

*Presence:* [0..1]

*Definition:* Version of the Cryptographic Message Syntax (CMS) data structure.

*Datatype:* "Number" on page 1314

#### 31.1.6.9.5.2 SignerIdentification <SgnrId>

*Presence:* [0..1]

*Definition:* Identification of the entity who has signed the data.

**SignerIdentification** <SgnrId> contains one of the following **Recipient5Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IssuerAndSerialNumber <IssrAndSrINb>	[1..1]			1256
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrINb>	[1..1]	Binary		1257
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1257

#### 31.1.6.9.5.2.1 IssuerAndSerialNumber <IssrAndSrINb>

*Presence:* [1..1]

*Definition:* Certificate issuer name and serial number (see ITU X.509).

**IssuerAndSerialNumber** <IssrAndSrINb> contains the following **IssuerAndSerialNumber1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Issuer <Issr>	[1..1]			1256
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257
	SerialNumber <SrINb>	[1..1]	Binary		1257

##### 31.1.6.9.5.2.1.1 Issuer <Issr>

*Presence:* [1..1]

*Definition:* Certificate issuer name (see X.509).

**Issuer** <Issr> contains the following **CertificateIssuer1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1256
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257

##### 31.1.6.9.5.2.1.1.1 RelativeDistinguishedName <RltvDstngshdNm>

*Presence:* [1..\*]

*Definition:* Relative distinguished name inside a X.509 certificate.



**RelativeDistinguishedName <RltvDstngshdNm>** contains the following **RelativeDistinguishedName1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AttributeType <AttrTp>	[1..1]	CodeSet		1257
	AttributeValue <AttrVal>	[1..1]	Text		1257

#### 31.1.6.9.5.2.1.1.1.1 AttributeType <AttrTp>

*Presence:* [1..1]

*Definition:* Type of attribute of a distinguished name (see X.500).

*Datatype:* "AttributeType1Code" on page 1289

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

#### 31.1.6.9.5.2.1.1.1.2 AttributeValue <AttrVal>

*Presence:* [1..1]

*Definition:* Value of the attribute of a distinguished name (see X.500).

*Datatype:* "Max140Text" on page 1316

#### 31.1.6.9.5.2.1.2 SerialNumber <SrINb>

*Presence:* [1..1]

*Definition:* Certificate serial number (see X.509).

*Datatype:* "Max35Binary" on page 1270

#### 31.1.6.9.5.2.2 KeyIdentifier <Keyldr>

*Presence:* [1..1]

*Definition:* Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

**KeyIdentifier <KeyIdr>** contains the following elements (see "KEKIdentifier2" on page 1165 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		1165
	KeyVersion <KeyVrsn>	[1..1]	Text		1165
	SequenceNumber <SeqNb>	[0..1]	Quantity		1165
	DerivationIdentification <DerivtnId>	[0..1]	Binary		1165

### 31.1.6.9.5.3 DigestAlgorithm <DgstAlgo>

*Presence:* [1..1]

*Definition:* Identification of a digest algorithm to apply before signature.

**DigestAlgorithm <DgstAlgo>** contains the following **AlgorithmIdentification16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1258

#### 31.1.6.9.5.3.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the digest algorithm.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

#### 31.1.6.9.5.4 SignatureAlgorithm <SgntrAlgo>

*Presence:* [1..1]

*Definition:* Cryptographic digital signature algorithm.

**SignatureAlgorithm <SgntrAlgo>** contains the following **AlgorithmIdentification17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1259
	Parameter <Param>	[0..1]			1259
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261

#### 31.1.6.9.5.4.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the algorithm.

*Datatype:* "Algorithm14Code" on page 1275

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	Signature algorithms with RSA (PKCS #1 version 2.1), using SHA-1 digest algorithm - (ASN.1 Object Identifier: sha1WithRSAEncryption).
RPSS	RSASSA-PSS	Signature algorithm with Appendix, Probabilistic Signature Scheme (PKCS #1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).

#### 31.1.6.9.5.4.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters of the RSASSA-PSS digital signature algorithm (RSA signature algorithm with appendix: Probabilistic Signature Scheme).

**Parameter <Param>** contains the following **Parameter8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		1260
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			1260
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261
	SaltLength <SaltLngth>	[1..1]	Quantity		1261
	TrailerField <TrlrFld>	[0..1]	Quantity		1261

#### 31.1.6.9.5.4.2.1 DigestAlgorithm <DgstAlgo>

*Presence:* [1..1]

*Definition:* Identification of the digest algorithm.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

#### 31.1.6.9.5.4.2.2 MaskGeneratorAlgorithm <MskGnrtrAlgo>

*Presence:* [1..1]

*Definition:* Mask generator function cryptographic algorithm and parameters.

**MaskGeneratorAlgorithm <MskGnrtrAlgo>** contains the following **AlgorithmIdentification12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1260
	Parameter <Param>	[0..1]			1261
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261

#### 31.1.6.9.5.4.2.2.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Mask generator function cryptographic algorithm.

*Datatype:* "Algorithm8Code" on page 1276

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

#### 31.1.6.9.5.4.2.2.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters associated to the mask generator function cryptographic algorithm

**Parameter <Param>** contains the following **Parameter5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1261

#### 31.1.6.9.5.4.2.2.2.1 DigestAlgorithm <DgstAlgo>

*Presence:* [0..1]

*Definition:* Digest algorithm used in the mask generator function.

*Datatype:* "Algorithm11Code" on page 1273

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

#### 31.1.6.9.5.4.2.3 SaltLength <SaltLngth>

*Presence:* [1..1]

*Definition:* Length of the salt to include in the signature.

*Datatype:* "Number" on page 1314

#### 31.1.6.9.5.4.2.4 TrailerField <TrlrFld>

*Presence:* [0..1]

*Definition:* Trailer field number.

*Datatype:* "Number" on page 1314

**31.1.6.9.5.5 Signature <Sgntr>***Presence:* [1..1]*Definition:* Digital signature.*Datatype:* "Max3000Binary" on page 1270**31.1.6.10 EnvelopedData4***Definition:* Encrypted data with encryption key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		1262
	Recipient <Rcpt>	[1..*]	±		1262
	EncryptedContent <NcrptdCntt>	[0..1]			1264
	ContentType <CnttTp>	[1..1]	CodeSet		1264
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			1264
	Algorithm <Algo>	[1..1]	CodeSet		1265
	Parameter <Param>	[0..1]			1265
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1266
	InitialisationVector <InitlstrVctr>	[0..1]	Binary		1266
	BytePadding <BPddg>	[0..1]	CodeSet		1266
	EncryptedData <NcrptdData>	[1..1]	Binary		1266

**31.1.6.10.1 Version <Vrsn>***Presence:* [0..1]*Definition:* Version of the data structure.*Datatype:* "Number" on page 1314**31.1.6.10.2 Recipient <Rcpt>***Presence:* [1..\*]*Definition:* Session key or identification of the protection key used by the recipient.

**Recipient <Rcpt>** contains one of the following elements (see "Recipient4Choice" on page 1240 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			1242
	Version <Vrsn>	[0..1]	Quantity		1242
	RecipientIdentification <RcptId>	[1..1]			1242
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			1243
	Issuer <Issr>	[1..1]			1243
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			1243
	AttributeType <AttrTp>	[1..1]	CodeSet		1244
	AttributeValue <AttrVal>	[1..1]	Text		1244
	SerialNumber <SrlNb>	[1..1]	Binary		1244
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1244
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1245
	Algorithm <Algo>	[1..1]	CodeSet		1245
	Parameter <Param>	[0..1]			1245
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1246
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1246
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			1246
	Algorithm <Algo>	[1..1]	CodeSet		1247
	Parameter <Param>	[0..1]			1247
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		1247
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1248
Or	KEK <KEK>	[1..1]			1248
	Version <Vrsn>	[0..1]	Quantity		1248
	KEKIdentification <KEKId>	[1..1]	±		1248
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			1249
	Algorithm <Algo>	[1..1]	CodeSet		1249
	Parameter <Param>	[0..1]			1250
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1250
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1250
	BytePadding <BPddg>	[0..1]	CodeSet		1250
	EncryptedKey <NcrptdKey>	[1..1]	Binary		1251

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		1251

### 31.1.6.10.3 EncryptedContent <NcrptdCntt>

*Presence:* [0..1]

*Definition:* Data protection by encryption (digital envelope), with an encryption key.

**EncryptedContent <NcrptdCntt>** contains the following **EncryptedContent3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		1264
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			1264
	Algorithm <Algo>	[1..1]	CodeSet		1265
	Parameter <Param>	[0..1]			1265
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1266
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		1266
	BytePadding <BPddg>	[0..1]	CodeSet		1266
	EncryptedData <NcrptdData>	[1..1]	Binary		1266

#### 31.1.6.10.3.1 ContentType <CnttTp>

*Presence:* [1..1]

*Definition:* Type of data which have been encrypted.

*Datatype:* "ContentType2Code" on page 1293

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

#### 31.1.6.10.3.2 ContentEncryptionAlgorithm <CnttNcrptnAlgo>

*Presence:* [1..1]

*Definition:* Algorithm used to encrypt the data.



**ContentEncryptionAlgorithm <CnttNcrptnAlgo>** contains the following **AlgorithmIdentification14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		1265
	Parameter <Param>	[0..1]			1265
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1266
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1266
	BytePadding <BPddg>	[0..1]	CodeSet		1266

### 31.1.6.10.3.2.1 Algorithm <Algo>

*Presence:* [1..1]

*Definition:* Identification of the encryption algorithm.

*Datatype:* "Algorithm15Code" on page 1275

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.1.6.10.3.2.2 Parameter <Param>

*Presence:* [0..1]

*Definition:* Parameters associated with the CBC (Chain Block Chaining) encryption algorithm.

**Parameter <Param>** contains the following **Parameter6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		1266
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		1266
	BytePadding <BPddg>	[0..1]	CodeSet		1266

#### 31.1.6.10.3.2.2.1 EncryptionFormat <NcrptnFrmt>

*Presence:* [0..1]

*Definition:* Format of data before encryption, if the format is not plaintext or implicit.

*Datatype:* "EncryptionFormat1Code" on page 1296

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

#### 31.1.6.10.3.2.2.2 InitialisationVector <InitlstnVctr>

*Presence:* [0..1]

*Definition:* Initialisation vector of a cipher block chaining (CBC) mode encryption.

*Datatype:* "Max500Binary" on page 1271

#### 31.1.6.10.3.2.2.3 BytePadding <BPddg>

*Presence:* [0..1]

*Definition:* Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

*Datatype:* "BytePadding1Code" on page 1290

CodeName	Name	Definition
LNGT	LengthPadding	Message to encrypt is completed by a byte value containing the total number of added bytes.
NUL8	Null80Padding	Message to encrypt is completed by one bit of value 1, followed by null bits until the encryption block length is reached.
NULG	NullLengthPadding	Message to encrypt is completed by null byte values, the last byte containing the total number of added bytes.
NULL	NullPadding	Message to encrypt is completed by null bytes.
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

#### 31.1.6.10.3.3 EncryptedData <NcrptdData>

*Presence:* [1..1]

*Definition:* Encrypted data, result of the content encryption.

*Datatype:* "Max100KBinary" on page 1270

## 31.1.7 Postal Address

### 31.1.7.1 PostalAddress1

*Definition:* Information that locates and identifies a specific address, as defined by postal services.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		1267
	AddressLine <AdrLine>	[0..5]	Text		1267
	StreetName <StrtNm>	[0..1]	Text		1268
	BuildingNumber <BldgNb>	[0..1]	Text		1268
	PostCode <PstCd>	[0..1]	Text		1268
	TownName <TwnNm>	[0..1]	Text		1268
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		1268
	Country <Ctry>	[1..1]	CodeSet	C1	1268

#### 31.1.7.1.1 AddressType <AdrTp>

*Presence:* [0..1]

*Definition:* Identifies the nature of the postal address.

*Datatype:* "AddressType2Code" on page 1273

CodeName	Name	Definition
ADDR	Postal	Address is the complete postal address.
PBOX	POBox	Address is a postal office (PO) box.
HOME	Residential	Address is the home address.
BIZZ	Business	Address is the business address.
MLTO	MailTo	Address is the address to which mail is sent.
DLVY	DeliveryTo	Address is the address to which delivery is to take place.

#### 31.1.7.1.2 AddressLine <AdrLine>

*Presence:* [0..5]

*Definition:* Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

*Datatype:* "Max70Text" on page 1318

**31.1.7.1.3 StreetName <StrtNm>**

*Presence:* [0..1]

*Definition:* Name of a street or thoroughfare.

*Datatype:* "Max70Text" on page 1318

**31.1.7.1.4 BuildingNumber <BldgNb>**

*Presence:* [0..1]

*Definition:* Number that identifies the position of a building on a street.

*Datatype:* "Max16Text" on page 1316

**31.1.7.1.5 PostCode <PstCd>**

*Presence:* [0..1]

*Definition:* Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

*Datatype:* "Max16Text" on page 1316

**31.1.7.1.6 TownName <TwnNm>**

*Presence:* [0..1]

*Definition:* Name of a built-up area, with defined boundaries, and a local government.

*Datatype:* "Max35Text" on page 1317

**31.1.7.1.7 CountrySubDivision <CtrySubDvsn>**

*Presence:* [0..1]

*Definition:* Identifies a subdivision of a country for example, state, region, county.

*Datatype:* "Max35Text" on page 1317

**31.1.7.1.8 Country <Ctry>**

*Presence:* [1..1]

*Definition:* Nation with its own government.

*Impacted by:* C1 "Country"

*Datatype:* "CountryCode" on page 1293

**Constraints**

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

## 31.2 Message Datatypes

### 31.2.1 Amount

#### 31.2.1.1 CurrencyAndAmount

*Definition:* Number of monetary units specified in a currency, where the unit of currency is explicit and compliant with ISO 4217. The decimal separator is a dot.

Note: A zero amount is considered a positive amount.

*Type:* Amount

This data type contains the following XML attribute:

Name	Attribute XML Name	Datatype
Currency	Ccy	"CurrencyCode" on page 1295

**Format**

minInclusive	0
totalDigits	18
fractionDigits	5

**Constraints**

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

#### 31.2.1.2 ImpliedCurrencyAndAmount

*Definition:* Number of monetary units specified in a currency where the unit of currency is implied by the context and compliant with ISO 4217. The decimal separator is a dot.

Note: a zero amount is considered a positive amount.

*Type:* Amount

**Format**

minInclusive	0
totalDigits	18
fractionDigits	5

## 31.2.2 Binary

### 31.2.2.1 Max10000Binary

*Definition:* Specifies a binary string with a maximum length of 10000 binary bytes.

*Type:* Binary

**Format**

minLength	1
maxLength	10000

### 31.2.2.2 Max100KBinary

*Definition:* Binary data of 100K maximum.

*Type:* Binary

**Format**

minLength	1
maxLength	102400

### 31.2.2.3 Max140Binary

*Definition:* Specifies a binary string with a maximum length of 140 binary bytes.

*Type:* Binary

**Format**

minLength	1
maxLength	140

### 31.2.2.4 Max3000Binary

*Definition:* Specifies a binary string with a maximum length of 3000 binary bytes.

*Type:* Binary

**Format**

minLength	1
maxLength	3000

### 31.2.2.5 Max35Binary

*Definition:* Specifies a binary string with a maximum length of 35 binary bytes.

*Type:* Binary

**Format**

minLength	1
-----------	---

maxLength 35

### 31.2.2.6 Max5000Binary

*Definition:* Specifies a binary string with a maximum length of 5000 binary bytes.

*Type:* Binary

#### Format

minLength 1  
maxLength 5000

### 31.2.2.7 Max500Binary

*Definition:* Specifies a binary string with a maximum length of 500 binary bytes.

*Type:* Binary

#### Format

minLength 1  
maxLength 500

### 31.2.2.8 Min5Max16Binary

*Definition:* Specifies a binary string with a minimum length of 5 bytes, and a maximum length of 16 bytes.

*Type:* Binary

#### Format

minLength 5  
maxLength 16

## 31.2.3 CodeSet

### 31.2.3.1 AccountChoiceMethod1Code

*Definition:* Method used by the cardholder and the terminal for the choice of the account.

*Type:* CodeSet

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.

CodeName	Name	Definition
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

### 31.2.3.2 ActionType6Code

*Definition:* Type of action to be performed.

*Type:* CodeSet

CodeName	Name	Definition
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FEES	AcceptFees	Fees must be accepted.
HAMT	AcceptHigherAmount	MinimumAmount must be accepted.
LAMT	AcceptLowerAmount	MaximumAuthorisedAmount must be accepted.
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
CPNS	DistributeCoupon	Distribute a coupon from the cassette of coupon.
RQST	PerformRequest	Request to be performed by the ATM.
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

### 31.2.3.3 ActiveCurrencyCode

*Definition:* A code allocated to a currency by a Maintenance Agency under an international identification scheme as described in the latest edition of the international standard ISO 4217 "Codes for the representation of currencies and funds".

*Type:* CodeSet

#### Format

pattern [A-Z]{3,3}

#### Constraints

- **ActiveCurrency**

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217



Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

### 31.2.3.4 AddressType2Code

*Definition:* Specifies the type of address.

*Type:* CodeSet

CodeName	Name	Definition
ADDR	Postal	Address is the complete postal address.
PBOX	POBox	Address is a postal office (PO) box.
HOME	Residential	Address is the home address.
BIZZ	Business	Address is the business address.
MLTO	MailTo	Address is the address to which mail is sent.
DLVY	DeliveryTo	Address is the address to which delivery is to take place.

### 31.2.3.5 Algorithm11Code

*Definition:* Identification of a digest algorithm.

*Type:* CodeSet

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

### 31.2.3.6 Algorithm12Code

*Definition:* Cryptographic algorithms for the MAC (Message Authentication Code).

*Type:* CodeSet

CodeName	Name	Definition
MACC	RetailCBCMAC	Retail CBC (Chaining Block Cypher) MAC (Message Authentication Code) (cf. ISO 9807, ANSI X9.19) - (ASN.1 Object Identifier: id-retail-cbc-mac).
MCCS	RetailSHA256MAC	Retail-CBC-MAC with SHA-256 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-256).

CodeName	Name	Definition
CMA1	SHA256CMACwithAES128	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-256 digest of the message.
MCC1	RetailSHA1MAC	Retail-CBC-MAC with SHA-1 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-1).
CMA9	SHA384CMACwithAES192	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 192 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-384 digest of the message.
CMA5	SHA512CMACwithAES256	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 256 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-512 digest of the message.

### 31.2.3.7 Algorithm13Code

*Definition:* Cryptographic algorithms for the protection of transported keys.

*Type:* CodeSet

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).

CodeName	Name	Definition
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) algorithm, as specified in ANSI X9.24-2009 Annex A.
UKPT	UKPT	UKPT (Unique Key Per Transaction) or Master Session Key key encryption - (ASN.1 Object Identifier: id-ukpt-wrap).
UKA1	UKPTwithAES128	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.2.3.8 Algorithm14Code

*Definition:* Cryptographic algorithms for digital signatures.

*Type:* CodeSet

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	Signature algorithms with RSA (PKCS #1 version 2.1), using SHA-1 digest algorithm - (ASN.1 Object Identifier: sha1WithRSAEncryption).
RPSS	RSASSA-PSS	Signature algorithm with Appendix, Probabilistic Signature Scheme (PKCS #1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).

### 31.2.3.9 Algorithm15Code

*Definition:* Cryptographic algorithms for encryptions with a symmetric cryptographic key.

*Type:* CodeSet

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

### 31.2.3.10 Algorithm7Code

*Definition:* Asymmetric encryption algorithm of a transport key.

Type: CodeSet

CodeName	Name	Definition
ERSA	RSAEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSAO	RSAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

### 31.2.3.11 Algorithm8Code

**Definition:** Mask generator functions of the RSAES-OAEP encryption algorithm (RSA Encryption Scheme: Optimal Asymmetric Encryption Padding).

Type: CodeSet

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

### 31.2.3.12 ATMCassetteType1Code

*Definition:* Type of cassette.

Type: CodeSet

CodeName	Name	Definition
DPST	In	Cassette for deposits.
DISP	Out	Cassette for dispense.
RCYC	Recycling	Cassette for recycling.
RJCT	Reject	Cassette for reject.
RPLT	Replenishment	Cassette for replenishment.
RTRC	Retract	Cassette for retract.

### 31.2.3.13 ATMCommand4Code

*Definition:* Type of command to be performed by an ATM.

Type: CodeSet

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
SNDM	SendMessage	Send a specific message to initiate a process.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

### 31.2.3.14 ATMCommand5Code

*Definition:* Type of command performed by the ATM.

Type: CodeSet

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
CCNT	CountersInquiry	Request the value of the ATM counters.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

### 31.2.3.15 ATMCommand6Code

*Definition:* Type of command performed by the ATM.

Type: CodeSet

CodeName	Name	Definition
ABAL	ATMBalance	Provide the ATM counters, resetting those that are applicable.
ASTS	ATMStatusUpdate	Status of the ATM required by the ATM manager.
CFGT	ConfigurationUpdate	Update the ATM configuration parameters.
CCNT	CountersInquiry	Request the value of the ATM counters.
DISC	Disconnect	Perform a disconnection followed by a reconnection.
KACT	KeyActivation	Activate cryptographic keys.
KDAC	KeyDeactivation	Deactivate cryptographic keys.
KDWL	KeyDownload	Start a cryptographic key download.
KRMV	KeyRemove	Remove cryptographic keys.
SCFU	SecurityDeviceConfigurationUpdate	Update the configuration of the hardware security module on the ATM.
SSCU	SecurityDeviceSchemeUpdate	Update the security scheme of the hardware security module on the ATM.
SSTU	SecurityDeviceStatusUpdate	Update the status of the hardware security module on the ATM.
SNDM	SendMessage	Send a specific message to initiate a process.
HKCG	HLAKeyReplace	Replace an existing key using a Higher Level Authority (HLA) key. In the TR34 scheme this would be used to implement a HLA Rebind operation.
HKRV	HLAKeyRemove	Remove a cryptographic key using a Higher Level Authority key (HLA). In the TR34 scheme this would be used to implement a HLA Unbind operation.
KCHG	KeyReplace	Replaces an existing cryptographic key. In a TR34 scheme this would be used to implement a Rebind operation.

### 31.2.3.16 ATMCommandReason1Code

*Definition:* Reason for sending the command.

*Type:* CodeSet

CodeName	Name	Definition
DIAG	Diagnostic	Request the status of or action from the ATM to perform a diagnostic.
MONI	Monitoring	Supervise the ATM.
SECU	SecurityError	Security error.
SYNC	Synchronisation	Desynchronisation of dialogue between entities.
UPDT	Update	Update the ATM.

### 31.2.3.17 ATMCounterType1Code

*Definition:* Type of ATM cassette counters.

*Type:* CodeSet

CodeName	Name	Definition
INQU	CountersInquiry	Counters since the last counters inquiry.
CTXN	CustomerTransaction	Counters for a customer transaction.
CTOF	CutOff	Counters since the last cut-off.
BDAY	BusinessDay	Counters since the beginning of the business day.
PRTN	Operation	Counters for an operation performed by an operator on the ATM.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

### 31.2.3.18 ATMCounterType2Code

*Definition:* Type of ATM cassette counters.

*Type:* CodeSet

CodeName	Name	Definition
BDAY	BusinessDay	Counters since the beginning of the business day.
INQU	CountersInquiry	Counters since the last counters inquiry.
CTOF	CutOff	Counters since the last cut-off.
OPER	OperatorAdjust	Counters since the last update by an operator on the ATM.

### 31.2.3.19 ATMCustomerProfile1Code

*Definition:* Describes the main way customer information was collected to build up the customer menu and the withdrawal request.

*Type:* CodeSet

CodeName	Name	Definition
CRDF	CardInformation	Customer profile is deduced from the card data and the local configuration.
OREQ	OtherRequest	Customer profile is sent via an account enquiry selecting an account.
PREQ	ProfileRequest	Customer profile is built via a specific profile message exchange.

### 31.2.3.20 ATMDevice1Code

*Definition:* ATM device to output message.

*Type:* CodeSet

CodeName	Name	Definition
CDIS	CustomerConsole	Customer display and keyboard.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
JRNL	Journal	Event log.
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

### 31.2.3.21 ATMDevice2Code

*Definition:* List of ATM devices.

*Type:* CodeSet

CodeName	Name	Definition
ALRM	AlarmSensors	Alarm sensors, such as tamper, seismic or heat sensors.
BRCD	BarCodeReader	Device scanning barcodes using any scanning technology.
CAMR	Camera	Camera, recorder, video mixer.
CRDD	CardDispenser	Device dispensing card to a consumer.
CRDR	CardUnit	Device to read and optionally write card with various entry modes.
CSHD	CashDispenser	Device dispensing cash in an automated environment, or with an operator present.
CSHI	CashInModule	Device accepting in-out of items as coupons, documents, bills and coins.
CSHR	CashRecycler	Compound device with cash in module, cash dispenser, and cash exchange.
CHCK	CheckReader	Check reader and check image scanner.
CDIS	CustomerConsole	Customer display and keyboard.
DPST	Deposit	Device for the deposit of media in envelopes or deposit of bags containing bulk media.
DPRN	DocumentPrinter	Printer for full-size forms documents and supporting the printing of text and graphic.
DOOR	DoorSensors	Door sensors, such as cabinet, safe or vandal shield doors.
INPM	InputProcessingModule	Self service device processing items.
JRNL	Journal	Event log.



CodeName	Name	Definition
JPRN	JournalPrinter	Continuous form device used to record a hardcopy audit trail of transactions, and for certain report printing requirements.
SNSR	OtherSensor	Other sensors and indicators unit.
PSBK	PassbookPrinter	Passbook device supporting automatic positioning of the book.
PINR	PINKeypad	Hardware security module allowing the PIN (Personal Identification Number) entry, secure storing of cryptographic keys, and other cryptographic functions.
RPRN	ReceiptPrinter	Receipt printer used to print cut sheet documents.
SCAN	ScannerPrinter	Device incorporating both the capabilities to scan inserted documents and optionally to print on them.
RWDR	WithdrawalReceipt	Receipt of the withdrawal transactions.

### 31.2.3.22 ATMMediaType1Code

*Definition:* Type of media inside an ATM cassette.

*Type:* CodeSet

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.
UDTM	Undetermined	Undetermined medias.

### 31.2.3.23 ATMMediaType2Code

*Definition:* Type of media inside an ATM cassette.

*Type:* CodeSet

CodeName	Name	Definition
CARD	Cards	Card media.
COIN	Coins	Coin media.
CMDT	Commodity	Non fixed value of the media, for instance gold, silver.
CPNS	Coupons	Coupon media.
NOTE	Notes	Bank note media.
STMP	Stamps	Stamp media.

CodeName	Name	Definition
UDTM	Undetermined	Undetermined medias.
CHCK	Check	Check media.

### 31.2.3.24 ATMMediaType3Code

*Definition:* Category of media items.

*Type:* CodeSet

CodeName	Name	Definition
CNTR	Counterfeit	Detected counterfeit media.
FITN	Fit	Fit media.
FITU	FitAndUnfit	Fit or unfit media, if fitness cannot be determined.
SPCT	Suspect	Suspect media.
UNFT	Unfit	Unfit media (unacceptable quality).
UNRG	Unrecognised	Unrecognised media.

### 31.2.3.25 ATMNoteType1Code

*Definition:* Type of items the cash-in cassette.

*Type:* CodeSet

CodeName	Name	Definition
ALLT	All	All fit bank note types.
CNTR	Counterfeit	Detected counterfeit notes.
IDVD	Individual	All types of fit bank notes specified in an individual list.
SCNT	SuspectedCounterfeit	Suspected counterfeit notes.
UNFT	Unfit	Unfit bank notes (unacceptable quality).

### 31.2.3.26 ATMOperation1Code

*Definition:* Type of logical or physical operation on an ATM.

*Type:* CodeSet

CodeName	Name	Definition
ADJU	Adjust	Adjust logical counters of the cassette.
INSR	InsertMedia	Add physically media to cassette.
LOAD	Loading	Loading cassette.
REMV	RemoveMedia	Substract physically media from cassette.
UNLD	Unloading	Unloading cassette.

### 31.2.3.27 ATMSecurityScheme3Code

*Definition:* Key exchange security scheme in activation on the ATM for the host manager.

*Type:* CodeSet

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
NONE	Unitialised	No key exchange performed, no security scheme defined.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

### 31.2.3.28 ATMSecurityScheme4Code

*Definition:* Key exchange security schemes implemented in the hardware security module of the ATM.

*Type:* CodeSet

CodeName	Name	Definition
APPK	ApplicationRemoteKeyLoading	Application key download protected by a share symmetric key.
CERT	CertificateRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a certificate.
FRAN	FrenchRemoteKeyLoading	Key download conform to the French ATM key download security scheme.
DTCH	GermanRemoteKeyLoading	Key download conform to the German ATM key download security scheme.
LUXG	LuxemburgRemoteKeyLoading	Key download conform to the Luxemburg ATM key download security scheme.
MANU	ManualKeyEntry	Manual key entry on the ATM.
PKIP	PKIKeyDownload	Key download protected by asymmetric keys authenticated by a PKI (Public Key Infrastructure).

CodeName	Name	Definition
SIGN	SignatureRemoteKeyLoading	Key download protected by asymmetric keys authenticated by a digital signature.
TR34	TR34	ANSI X9 TR34 2012 scheme for the distribution of the symmetric public keys and the initial master key.

### 31.2.3.29 ATMSERVICEType10Code

*Definition:* Describes the type of service selected by the customer.

*Type:* CodeSet

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
CDVF	CardVerification	Verification of the card.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.

CodeName	Name	Definition
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

### 31.2.3.30 ATMSERVICEType1Code

*Definition:* Describes the type of withdrawal selected by the customer.

*Type:* CodeSet

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.

### 31.2.3.31 ATMSERVICEType3Code

*Definition:* Describes the type of inquiry selected by the customer or the ATM.

*Type:* CodeSet

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
CDVF	CardVerification	Verification of the card.
DCCS	DynamicCurrencyConversion	Ask to a DCC service provider to qualify the currency conversion for the card.
XRTD	ExchangeRateDeposit	Ask for exchange rate for the ongoing deposit transaction.
XRTW	ExchangeRateWithdrawal	Ask for exchange rate for the ongoing withdrawal transaction.
EMVS	SelectEMVApplication	Select the EMV applications allowed by the acquirer.
CMPF	CustomerProfile	Ask for customer profile with eventually related account information.
BLCQ	BalanceInquiry	Balance inquiry.

### 31.2.3.32 ATMSERVICEType5Code

*Definition:* Describes the type of service selected by the customer.

Type: CodeSet

CodeName	Name	Definition
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.

### 31.2.3.33 ATMSERVICEType6Code

*Definition:* Describes the type of deposit service selected by the customer.

Type: CodeSet

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

### 31.2.3.34 ATMSERVICEType7Code

*Definition:* Describes the type of ATM transaction selected by the customer.

Type: CodeSet

CodeName	Name	Definition
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
PINC	PINChange	Modification of the card PIN value.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorized by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
STDR	StandardWithdrawal	Standard withdrawal of items.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.

CodeName	Name	Definition
MCHG	MakingChange	Making change between media types.
TRFP	Payment	Funds transfer to pay a third party.

### 31.2.3.35 ATMSERVICEType8Code

*Definition:* Type of service to be offered for a customer at an ATM.

*Type:* CodeSet

CodeName	Name	Definition
ASTS	AccountStatements	Ask for account statement information to a related customer account.
BLCQ	BalanceInquiry	Balance inquiry.
PINC	PINChange	Modification of the card PIN value.
STDR	StandardWithdrawal	Standard withdrawal of items.
PRFL	ProfileWithdrawal	Amount and notes Values are pre-defined by the customer profile.
PATH	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel, for instance a mobile. The amount could be absent from the withdrawal request message.
CHSN	ChosenWithdrawal	Amount and notes values are chosen by the customer.
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.
TRFI	InterCustomerTransfer	Funds transfer to another customer.
MCHG	MakingChange	Making change between media types.
DPSN	NonVerifiedDeposit	Deposit of media items unverified by the ATM, for instance in an envelope.
PINR	PINRecovery	Resetting of a PIN.
PINU	PINUnblock	Unblock the PIN.
SPRV	SupervisedWithdrawal	Withdrawal authorised by a supervisor.
DPSV	VerifiedDeposit	Deposit of media items verified by the ATM.
TRFP	Payment	Funds transfer to pay a third party.

### 31.2.3.36 ATMSERVICEType9Code

*Definition:* Describes the type of fund transfer selected by the customer or the ATM.

*Type:* CodeSet

CodeName	Name	Definition
TRFC	CustomerTransfer	Funds transfer between accounts belonging to the customer in the same bank.

CodeName	Name	Definition
TRFI	InterCustomerTransfer	Funds transfer to another customer.
TRFP	Payment	Funds transfer to pay a third party.

### 31.2.3.37 ATMStatus1Code

*Definition:* Status of the ATM

*Type:* CodeSet

CodeName	Name	Definition
INSV	InService	Component is in service.
OUTS	OutOfService	ATM out of service.

### 31.2.3.38 ATMStatus2Code

*Definition:* Current status of the security device.

*Type:* CodeSet

CodeName	Name	Definition
OPER	InOperation	Component is activated and in operation.
OUTS	OutOfService	ATM out of service.

### 31.2.3.39 ATMStatus3Code

*Definition:* Current status of the key.

*Type:* CodeSet

CodeName	Name	Definition
OPER	InOperation	Component is activated and in operation.
STOP	Stopped	Component has been stopped.
WACT	WaitingActivation	Component has been loaded, but not yet activated.

### 31.2.3.40 ATMTransactionStatus1Code

*Definition:* Outcome of the financial ATM transaction for the customer.

*Type:* CodeSet

CodeName	Name	Definition
DOBT	Doubt	Undetermined status, for instance possibly forgotten notes.
FAIL	Failure	Transaction failed.
SCSS	Success	Transaction was successfully completed.

### 31.2.3.41 ATMTransactionStatus2Code

*Definition:* Status of the amount presented to the customer in the last bundle.



Type: CodeSet

CodeName	Name	Definition
FULL	Full	Total presented amount is equal to the amount to dispense.
PART	Partial	Total presented amount is lower than the amount to dispense.
NONE	None	Total presented amount is equal to zero.

### 31.2.3.42 AttributeType1Code

*Definition:* Type of attribute of a distinguished name (DN).

Type: CodeSet

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

### 31.2.3.43 AuthenticationEntity2Code

*Definition:* Entity or device that has performed the verification.

Type: CodeSet

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

### 31.2.3.44 AuthenticationMethod7Code

*Definition:* Method to authenticate the customer or its card.

Type: CodeSet

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
BIOM	Biometry	Biometric authentication of the cardholder.
MOBL	Mobile	Customer mobile device.
OTHR	Other	Other customer authentication.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.

### 31.2.3.45 BytePadding1Code

*Definition:* Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

*Type:* CodeSet

CodeName	Name	Definition
LNGT	LengthPadding	Message to encrypt is completed by a byte value containing the total number of added bytes.
NUL8	Null80Padding	Message to encrypt is completed by one bit of value 1, followed by null bits until the encryption block length is reached.
NULG	NullLengthPadding	Message to encrypt is completed by null byte values, the last byte containing the total number of added bytes.
NULL	NullPadding	Message to encrypt is completed by null bytes.
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

### 31.2.3.46 CardAccountType3Code

*Definition:* Type of cardholder account used for the transaction.

*Type:* CodeSet

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.

CodeName	Name	Definition
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.
PRPD	PrePaid	Pre-paid account.
FLTC	FleetCard	Fleet card account.

### 31.2.3.47 CardDataReading1Code

*Definition:* Type of reading of the card data.

*Type:* CodeSet

CodeName	Name	Definition
TAGC	Tag	Tag reading capabilities (RFID, etc.).
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
BRCD	BarCode	Bar code.
MGST	MagneticStripe	Magnetic stripe.
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
DFLE	AccountData	Account data on file.
CTLS	ProximityReader	Contactless proximity reader.

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).

### 31.2.3.48 CardDataReading4Code

*Definition:* Capabilities of the ATM terminal performing the transaction.

*Type:* CodeSet

CodeName	Name	Definition
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

### 31.2.3.49 CardFallback1Code

*Definition:* Information about card entry mode fallback.

*Type:* CodeSet

CodeName	Name	Definition
FFLB	FallbackAfterFailure	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal failed.
SFLB	FallbackAfterSuccess	Card fall-back occurred during the transaction in progress. The previous transaction on the terminal was successful.
NFLB	NoFallback	No card fall-back during the transaction in progress.

### 31.2.3.50 CardholderVerificationCapability3Code

*Definition:* Customer authentication capabilities available on an ATM.

*Type:* CodeSet

CodeName	Name	Definition
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
FCPN	OfflinePINClear	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
FDSG	OfflineDigitalSignature	Offline digital signature analysis.

CodeName	Name	Definition
FBIO	OfflineBiometrics	Offline biometrics.
FBIG	OfflineBiographics	Offline biographics.
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
PCOD	PersonalCode	Personal code of the customer for banking services.

### 31.2.3.51 CheckCodeLine1Code

*Definition:* Format of the check code line.

*Type:* CodeSet

CodeName	Name	Definition
CMC7	CMC7	Magnetic ink character digitally encoded with 7 sticks.
E13B	E13B	Magnetic ink character recognition.,conform to ISO 1004.
OCRA	OCRA	Optical character recognition font A, conform to ANSI X3.17:1981.
OCRB	OCRB	Optical character recognition font B, conform to ANSI X3.49:1975.
OCRF	OCRDefault	Default optical character recognition used.

### 31.2.3.52 ContentType2Code

*Definition:* Identification of the type of a Cryptographic Message Syntax (CMS) data structure.

*Type:* CodeSet

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

### 31.2.3.53 CountryCode

*Definition:* Code to identify a country, a dependency, or another area of particular geopolitical interest, on the basis of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

Type: CodeSet

#### Format

pattern [A-Z]{2,2}

#### Constraints

- **Country**

The code is checked against the list of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

### 31.2.3.54 CryptographicKeyType3Code

*Definition:* Codes for qualifying the type of cryptographic keys.

Type: CodeSet

CodeName	Name	Definition
AES2	AES128	AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE3	DES112	Data encryption standard key of 112 bits (without the parity bits).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) key, as specified in ANSI X9.24-2009 Annex A.
AES9	AES192	AES (Advanced Encryption Standard) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
AES5	AES256	AES (Advanced Encryption Standard) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EDE4	DES168	Data encryption standard key of 168 bits (without the parity bits).

### 31.2.3.55 CryptographicKeyType4Code

*Definition:* Category of the cryptographic key.

Type: CodeSet

CodeName	Name	Definition
APPL	Application	Key used to protect application information.
DATA	Data	Key used to protect data in the messages.

CodeName	Name	Definition
DYNC	Dynamic	Any cryptographic key that can be downloaded.
KENC	KeyEncryption	Key used to encrypt other keys.
MACK	MAC	Key used to generate the MAC of a message.
PINK	PIN	Key used to encrypt a PIN.
WRKG	Working	Temporary key used to download keys.

### 31.2.3.56 CurrencyCode

*Definition:* Code allocated to a currency, by a maintenance agency, under an international identification scheme as described in the latest edition of the international standard ISO 4217 "Codes for the representation of currencies and funds". Valid currency codes are registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

*Type:* CodeSet

#### Format

pattern [A-Z]{3,3}

#### Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

### 31.2.3.57 CurrencyConversionResponse2Code

*Definition:* Result of a requested currency conversion.

*Type:* CodeSet

CodeName	Name	Definition
ODCC	Allowed	Dynamic currency conversion may be offered to the cardholder.
ICRD	InvalidCard	The card is not valid for dynamic currency conversion.
IPRD	InvalidProduct	Dynamic currency conversion service cannot be offered for this card product.
IRAT	NoRate	Exchange rates are not available.
NDCC	NotAvailable	Dynamic currency conversion is not available for other reason.
IAMG	InvalidATMManager	The ATM manager is not valid for dynamic currency conversion.
IATM	InvalidATM	The ATM is not valid for dynamic currency conversion.

**31.2.3.58 DataSetCategory7Code**

*Definition:* Type of an ATM configuration.

*Type:* CodeSet

CodeName	Name	Definition
ATMC	ATMConfiguration	Configuration parameters of the ATM.
ATMP	ATMPProtocol	ATM protocol parameters, including the configuration of the hosts.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
CRAP	CardApplication	Configuration parameters of the card application.
CPRC	CardConfiguration	Configuration of the cards accepted by the terminal.
OEXR	OfflineExchangeRate	Local rates for currency exchanges.
AMNT	PreDefinedAmount	Predefined amounts to be presented to the customer.
LOCC	LocationConfiguration	Configuration of the location.
MNOC	MobileOperator	Configuration of the mobile operator cards accepted by the terminal.

**31.2.3.59 EncryptionFormat1Code**

*Definition:* Format of data before encryption, if the format is not plaintext or implicit.

*Type:* CodeSet

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

**31.2.3.60 FailureReason5Code**

*Definition:* Incident occurring on a device.

*Type:* CodeSet

CodeName	Name	Definition
SECR	Security	General security error.
HRDW	Hardware	Hardware error on the device.

**31.2.3.61 FailureReason6Code**

*Definition:* Reason for which the key has been stopped.

*Type:* CodeSet



CodeName	Name	Definition
CMPR	Compromised	Key is compromised.
EXPR	Expired	Key has expired.
KCVE	InvalidKCV	Key check value is incorrect.
KLOD	KeyLoadError	Error during the key download in the security device.

### 31.2.3.62 FailureReason7Code

*Definition:* Incident occurring during the processing of an ATM transaction.

*Type:* CodeSet

CodeName	Name	Definition
CDCP	CardCaptured	ATM manager has requested to capture the card.
CDCL	CardDeclined	Integrated circuit card declines the transaction before or after the authorisation.
CDER	CardError	Unable to complete transaction with the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CUDC	CustomerDecline	Customer has declined additional fees or a lower amount, transaction fails.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
FILL	FulfilmentError	Unable to fulfil, for instance dispensing the cash.
MALF	Malfunction	Suspected malfunction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
TIMO	TimeOut	Timeout while waiting for a response to a request message, or no response was received (for example connection release before receiving the response).
LATE	TooLateResponse	Response to the previous message was received too late.
UCPT	UnableToCapture	Unable to capture the card as requested.
UCMP	UnableToComplete	Unable to complete the transaction after the authorisation response.
USND	UnableToSend	Unable to deliver the request message to the recipient party.

CodeName	Name	Definition
CSRV	OutOfCustomerService	ATM manager has requested to the ATM to stop customer services.
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CUTO	CustomerTimeOut	Customer has not been performed in time an action.

### 31.2.3.63 FailureReason8Code

*Definition:* Exception occurring outside the service.

*Type:* CodeSet

CodeName	Name	Definition
CDRT	CardRetained	Card has been retained by the ATM or the terminal.
CDCP	CardCaptured	ATM manager has requested to capture the card.
CUCL	CustomerCancel	Customer cancellation, for example removing the card before the end of the transaction.
CDFG	ForgottenCard	Customer has left the card in the ATM or a motorised card reader.
MALF	Malfunction	Suspected malfunction.
SECU	SecurityError	Security error has occurred in the authorisation response message sent by the acquirer.
SFRD	SuspectedFraud	Card payment transaction fails because the merchant suspect a fraud.
UCPT	UnableToCapture	Unable to capture the card as requested.

### 31.2.3.64 Frequency3Code

*Definition:* Specifies the regularity of an event.

*Type:* CodeSet

CodeName	Name	Definition
YEAR	Annual	Event takes place every year or once a year.
MNTH	Monthly	Event takes place every month or once a month.
QURT	Quarterly	Event takes place every three months or four times a year.
MIAN	SemiAnnual	Event takes place every six months or two times a year.
WEEK	Weekly	Event takes place once a week.
DAIL	Daily	Event takes place every day.

CodeName	Name	Definition
TEND	TenDays	Event takes place every ten business days.

### 31.2.3.65 KeyUsage1Code

*Definition:* Allowed usages of the key.

*Type:* CodeSet

CodeName	Name	Definition
ENCR	Encryption	Key may encrypt.
DCPT	Decryption	Key may decrypt.
DENC	DataEncryption	Key may encrypt data.
DDEC	DataDecryption	Key may decrypt data.
TRNI	TranslateInput	Key may encrypt information before translation.
TRNX	TranslateOutput	Key may encrypt information after translation.
MACG	MessageAuthenticationCodeGeneration	Key may generate message authentication codes (MAC).
MACV	MessageAuthenticationCodeVerification	Key may verify message authentication codes (MAC).
SIGG	SignatureGeneration	Key may generate digital signatures.
SUGV	SignatureVerification	Key may verify digital signatures.
PINE	PINEncryption	Key may encrypt personal identification numbers (PIN).
PIND	PINDecryption	Key may decrypt personal identification numbers (PIN).
PINV	PINVerification	Key may verify personal identification numbers (PIN).
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

### 31.2.3.66 LanguageCode

*Definition:* Specifies a language.

*Type:* CodeSet

**Constraints**

- **ValidationByTable**

Must be a valid terrestrial language.

**31.2.3.67 MessageFunction11Code**

*Definition:* Identifies the type of process related to an ATM message.

*Type:* CodeSet

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CMPD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.

CodeName	Name	Definition
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.
DPSK	ATMDepositCompletionAcknowledgement	Acknowledgement of a deposit completion advice.
DPSV	ATMDepositCompletionAdvice	Advice of an ATM deposit transaction completion.
DPSQ	ATMDepositRequest	Request for a deposit.
DPSP	ATMDepositResponse	Response to a deposit request.
EXPK	ATMExceptionAcknowledgement	Acknowledgement of an exception advice.
EXPV	ATMExceptionAdvice	Advice of an ATM exception.
TRFQ	ATMTransferRequest	Request for a fund transfer.
TRFP	ATMTransferResponse	Response to a fund transfer request.
RPTC	CountersReport	Provide the value of the ATM counters, no reinitialisation of the counters.

### 31.2.3.68 MessageFunction7Code

*Definition:* Identifies the type of process related to an ATM message.

*Type:* CodeSet

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
CMPA	ATMCompletionAcknowledgement	Acknowledgement of a completion advice.
CPMD	ATMCompletionAdvice	Advice of an ATM transaction completion.
ACMD	ATMControl	Global ATM commands.
DVCC	ATMDeviceControl	Maintenance commands to perform.
DIAQ	ATMDiagnosticRequest	Request for a diagnostic.
DIAP	ATMDiagnosticResponse	Response to a diagnostic request.
GSTS	ATMGlobalStatus	Global status of the ATM.
INQQ	ATMInquiryRequest	Request for an inquiry.
INQP	ATMInquiryResponse	Response to an inquiry request.
KYAQ	ATMKeyDownloadRequest	Request for a key download.

CodeName	Name	Definition
KYAP	ATMKeyDownloadResponse	Response to a key download.
PINQ	ATMPINManagementRequest	Request for a cardholder PIN management.
PINP	ATMPINManagementResponse	Response to a cardholder PIN management request.
RJAQ	ATMRequestReject	Rejected request message.
RJAP	ATMResponseReject	Rejected response message.
WITV	ATMWithdrawalAdvice	Response of a withdrawal transaction.
WITK	ATMWithdrawalAcknowledgement	Acknowledgement of a withdrawal transaction advice.
WITQ	ATMWithdrawalRequest	Request for a withdrawal transaction.
WITP	ATMWithdrawalResponse	Response to a withdrawal transaction request.
INQC	CountersInquiry	Request the value of the ATM counters.
H2AP	HostToATMAcknowledgement	Acknowledgement of a request from a host to an ATM for contacting.
H2AQ	HostToATMRequest	Request from a host to an ATM to be contacted by this ATM.
TMOP	ATMOperation	Logical or physical operation on the ATM.
CSEC	SecurityControl	Security Commands.
DSEC	SecurityDetails	Security detailed report.
SKSC	SecurityKeyCompletion	Result of the key download with the status of the downloaded keys including key check values.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

### 31.2.3.69 MessageFunction8Code

*Definition:* Identifies the type of process requested by the host to an ATM.

*Type:* CodeSet

CodeName	Name	Definition
BALN	ATMBalance	Provide the ATM counters resetting those that are applicable.
GSTS	ATMGlobalStatus	Global status of the ATM.
DSEC	SecurityDetails	Security detailed report.
INQC	CountersInquiry	Request the value of the ATM counters.
KEYQ	KeyExchangeRequest	Request of a key exchange.
SSTS	SecurityKeyStatus	Status of cryptographic keys.

### 31.2.3.70 MessageProtection1Code

*Definition:* Mechanism used to protect the message of the ATM protocol.

Type: CodeSet

CodeName	Name	Definition
EVLP	EnvelopedMessage	Messages contain an encrypted body and a MAC or a digital signature computed on the complete message (header plus body after encryption).
MACB	MACBody	Messages contain a MAC or a digital signature computed on the body only.
MACM	MACMessage	Messages contain a MAC or a digital signature computed on the complete message (header plus body).
UNPR	NoProtection	Messages are not protected, no encryption and no MAC or digital signature.

### 31.2.3.71 OutputFormat1Code

Definition: Message format.

Type: CodeSet

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

### 31.2.3.72 OutputFormat2Code

Definition: Information format.

Type: CodeSet

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
SREF	ScreenReference	Screen to display identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

### 31.2.3.73 PartyType12Code

Definition: Type of identified entity.

Type: CodeSet

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.

CodeName	Name	Definition
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OATM	OriginatingATM	ATM initiating the transaction.

#### 31.2.3.74 PartyType16Code

*Definition:* Identifies the entity which initially sets the authorisation response value.

*Type:* CodeSet

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
BKAF	AccountFromBank	The bank of the source account.
BKAT	AccountToBank	The bank of the destination account.
ATMG	ATMManager	Entity managing the ATM.

#### 31.2.3.75 PINFormat4Code

*Definition:* Format of an ATM PIN block before encryption.

*Type:* CodeSet

CodeName	Name	Definition
ANSI	ANSIO	ANSI 0 PIN block format.
BNCM	Bancomat	Italian Bancomat PIN block format.
BKSY	Banksys	Banksys PIN block format.
DBLD	Diebold	Diebold PIN block format.
DBLC	DieboldCO	Diebold CO PIN block format.
ECI2	ECI2	ECI2 PIN block format.
ECI3	ECI3	ECI3 PIN block format.
EMVS	EMV RSA	EMV ISO2 PIN block format encrypted with the EMV RSA cryptographic key for the PIN.



CodeName	Name	Definition
IBM3	IBM3624	IBM 3624 PIN block format.
ISO0	ISO0	PIN diversified with the card account number, conforming to the standard ISO 9564-2.
ISO1	ISO1	PIN completed with random padding characters, conforming to the standard ISO 9564-2.
ISO2	ISO2	PIN without diversification characters, conforming to the standard ISO 9564-2.
ISO3	ISO3	PIN diversified with the card account number and random characters, conforming to the standard ISO 9564-2.
ISO4	ISO4	PIN format used with AES encryption, conforming to the new ISO SC2 format.
ISO5	ISO5	Alternative PIN format used with AES encryption, conforming to the new ISO SC2 format.
VIS2	VISA2	VISA2 PIN block format.
VIS3	VISA3	VISA3 PIN block format.

### 31.2.3.76 RejectReason1Code

*Definition:* Reason of transmission of a rejection message in response to a request or an advice.

*Type:* CodeSet

CodeName	Name	Definition
UNPR	UnableToProcess	Not possible to process the message, for instance the security module is unavailable, the hardware is unavailable, or there is a problem of resource.
IMSG	InvalidMessage	Invalid envelope of the message.
PARS	ParsingError	Invalid message: At least one of the data element or data structure is not present , the format, or the content of one data element or one data structure is not correct.
SECU	Security	Security error (for example an invalid key or an incorrect MAC value).
INTP	InitiatingParty	Invalid identification data for the sender.
RCPP	RecipientParty	Invalid identification data for the the receiver.
DPMG	DuplicateMessage	Duplicate message, the identification of the exchange is the same than a previous message.
VERS	ProtocolVersion	Version of the protocol couldn't be supported by the recipient.
MSGT	MessageType	Type of message the recipient receives is unknow or unsupported.

**31.2.3.77 Response2Code***Definition:* Response to a request of service.*Type:* CodeSet

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.

**31.2.3.78 Response4Code***Definition:* Result of the performed service..*Type:* CodeSet

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.

**31.2.3.79 ResultDetail4Code***Definition:* Detail of the response to an ATM.*Type:* CodeSet

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
AUTH	AuthenticationFailed	Cardholder or customer could not be authenticated, for instance due to an incorrect login identification or an incorrect password.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.

CodeName	Name	Definition
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
AMTD	DepositAmountLimit	Amount of deposit transactions exceeds the limit.
NMBD	DepositNumberLimit	Number of deposit transactions or items exceeds the limit.
CRDX	ExpiredCard	Card has expired.
FDCL	FallbackDeclined	Issuer declined the fall-back transaction.
FMTR	FormatError	Invalid format of the message or its content.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
ADDI	InvalidAddress	Part of the specified address is incorrect.
BRHI	InvalidBranch	Invalid branch or bank information.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
AMTO	InvalidOriginalAmount	Original amount is invalid.
PINV	InvalidPIN	PIN is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
SGNI	InvalidSignature	Signed message has an invalid signature.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
ISSP	IssuerInoperative	Issuer is inoperative.
ISSF	IssuerNotFound	Issuer is not found.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
KEYS	KeyStorageSaturation	Storage space not available for the key.

CodeName	Name	Definition
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
CRDL	LostCard	Card has been declared lost.
MACR	MACError	MAC error.
MACK	MACKeyError	MAC key error.
ICCM	MissingICCDData	ICC data elements required for processing the ICC transaction were not present in the message.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
CRDA	NoCardRecord	No card file record.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
PINA	NotAbleToValidatePIN	PIN could not be validated.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SRVU	ServiceNotEnabled	Cardholder or customer has not enabled the service with the service provider.

CodeName	Name	Definition
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDS	StolenCard	Card has been declared stolen.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
SYSP	SystemInoperative	Processing temporary not available.
SYSM	SystemMalfunction	System Malfunction.
TRMI	TerminalNotConfigured	Server received a terminal identification that it does not have any knowledge of.
ACTT	ToAccountError	To account status error.
TTLV	TotalsNotAvailable	Totals are not available.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
CRDU	UneffectiveCard	Card is not active yet.
SVSU	UnsupportedService	Requested service not supported.
VNDR	VendorFormatError	Vendor format has an error.
VNDF	VendorNotFound	Vendor not found.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
CRDW	WrongCard	Other card used for the original transaction.
MEDI	InvalidMediaType	The requested media are not allowed for the service.
SRVI	InvalidService	The requested service is not allowed.

### 31.2.3.80 TerminalManagementActionResult2Code

*Definition:* Final result of the processed command at the ATM.

*Type:* CodeSet

CodeName	Name	Definition
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
HRDW	Hardware	Hardware error.
NSUP	NotSupported	Action is not supported.
SECR	Security	Security error.
SUCC	Success	Action was successfully performed.
SYNE	SyntaxError	Data transferred has a wrong syntax.
TIMO	Timeout	Timeout expired during the data transfer.
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.

### 31.2.3.81 TMSContactLevel2Code

*Definition:* Urgency of the command.

*Type:* CodeSet

CodeName	Name	Definition
ASAP	AsSoonAsPossible	Terminal management system has to be contacted as soon as possible (for example after reconciliation).
CRIT	Critical	Terminal management system has to be contacted before the next transaction.
DTIM	DateTime	Terminal management system has to be contacted at the date and time provided.
ENCS	EndCustomerSession	After the end of the customer session

### 31.2.3.82 TR34Command1Code

*Definition:* Specific TR34 command that the ATM could perform.

*Type:* CodeSet

CodeName	Name	Definition
BIND	Bind	TR34 bind operation.
HILR	HigherLevelRebind	TR34 Higher Level rebind operation.
HILU	HigherLevelUnbind	TR34 Higher Level unbind operation.
RBND	Rebind	TR34 rebind operation.
UBND	Unbind	TR34 unbind operation.

### 31.2.3.83 TR34Status1Code

*Definition:* Specific TR34 status that the ATM could use.

*Type:* CodeSet

CodeName	Name	Definition
BUND	Bound	The device is bound.
UBND	Unbound	The device is unbound.

### 31.2.3.84 TransactionEnvironment2Code

*Definition:* Indicates the environment of the transaction location.

*Type:* CodeSet

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

### 31.2.3.85 TransactionEnvironment3Code

*Definition:* Indicates the entity hosting the terminal performing the transaction.

*Type:* CodeSet

CodeName	Name	Definition
BRCH	Branch	Bank environment.
MERC	Merchant	Merchant environment.
OTHR	Other	Other environments, for instance a mall or an airport.

### 31.2.3.86 UserInterface5Code

*Definition:* Destination of the message.

*Type:* CodeSet

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

### 31.2.3.87 Verification1Code

*Definition:* Result of the verification.

*Type:* CodeSet

CodeName	Name	Definition
FAIL	Failed	Verification failed.

CodeName	Name	Definition
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

## 31.2.4 Date

### 31.2.4.1 ISODate

*Definition:* A particular point in the progression of time in a calendar year expressed in the YYYY-MM-DD format. This representation is defined in "XML Schema Part 2: Datatypes Second Edition - W3C Recommendation 28 October 2004" which is aligned with ISO 8601.

*Type:* Date

## 31.2.5 DateTime

### 31.2.5.1 ISODateTime

*Definition:* A particular point in the progression of time defined by a mandatory date and a mandatory time component, expressed in either UTC time format (YYYY-MM-DDThh:mm:ss.sssZ), local time with UTC offset format (YYYY-MM-DDThh:mm:ss.sss+/-hh:mm), or local time format (YYYY-MM-DDThh:mm:ss.sss). These representations are defined in "XML Schema Part 2: Datatypes Second Edition - W3C Recommendation 28 October 2004" which is aligned with ISO 8601.

Note on the time format:

1) beginning / end of calendar day

00:00:00 = the beginning of a calendar day

24:00:00 = the end of a calendar day

2) fractions of second in time format

Decimal fractions of seconds may be included. In this case, the involved parties shall agree on the maximum number of digits that are allowed.

*Type:* DateTime

## 31.2.6 IdentifierSet

### 31.2.6.1 AnyBICIdentifier

*Definition:* Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".



*Type:* IdentifierSet

*Identification scheme:* SWIFT; AnyBICIdentifier

#### Format

pattern [A-Z]{6,6}[A-Z2-9][A-NP-Z0-9]([A-Z0-9]{3,3}){0,1}

#### Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

### 31.2.6.2 BBANIdentifier

*Definition:* Basic Bank Account Number (BBAN). Identifier used nationally by financial institutions, ie, in individual countries, generally as part of a National Account Numbering Scheme(s), which uniquely identifies the account of a customer.

*Type:* IdentifierSet

*Identification scheme:* National Banking Association; Basic Bank Account Number

#### Format

pattern [a-zA-Z0-9]{1,30}

### 31.2.6.3 IBANIdentifier

*Definition:* An identifier used internationally by financial institutions to uniquely identify the account of a customer at a financial institution, as described in the latest edition of the international standard ISO 13616. "Banking and related financial services - International Bank Account Number (IBAN)".

*Type:* IdentifierSet

*Identification scheme:* National Banking Association; International Bank Account Number (ISO 13616)

#### Format

pattern [a-zA-Z]{2,2}[0-9]{2,2}[a-zA-Z0-9]{1,30}

#### Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

### 31.2.6.4 UPICIdentifier

*Definition:* Universal Payment Identification Code (UPIC). Identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

*Type:* IdentifierSet

*Identification scheme:* The Clearing House (formerly The New York Clearing House); Universal Payment Identification Code

**Format**

pattern	[0-9]{8,17}
---------	-------------

## 31.2.7 Indicator

### 31.2.7.1 PlusOrMinusIndicator

*Definition:* Indicates a positive or negative value.

*Type:* Indicator

*Meaning When True:* Plus

*Meaning When False:* Minus

### 31.2.7.2 TrueFalseIndicator

*Definition:* A flag indicating a True or False value.

*Type:* Indicator

*Meaning When True:* True

*Meaning When False:* False

## 31.2.8 Quantity

### 31.2.8.1 Number

*Definition:* Number of objects represented as an integer.

*Type:* Quantity

**Format**

totalDigits	18
fractionDigits	0

## 31.2.9 Rate

### 31.2.9.1 BaseOneRate

*Definition:* Rate expressed as a decimal, eg, 0.7 is 7/10 and 70%.

*Type:* Rate

**Format**

totalDigits	11
fractionDigits	10
baseValue	1.0

### 31.2.9.2 Percentage

*Definition:* field representing a percentage (e.g. 0.05 represents 5% and 0.9525 represents 95.25%). Note the number of decimal places may vary.

*Type:* Rate

#### Format

totalDigits	11
fractionDigits	10
baseValue	100.0

### 31.2.9.3 PercentageRate

*Definition:* Rate expressed as a percentage, ie, in hundredths, eg, 0.7 is 7/10 of a percent, and 7.0 is 7%.

*Type:* Rate

#### Format

totalDigits	11
fractionDigits	10
baseValue	100.0

## 31.2.10 Text

### 31.2.10.1 Exact3AlphaNumericText

*Definition:* Specifies an alphanumeric string with a length of exact 3 characters.

*Type:* Text

#### Format

pattern	[a-zA-Z0-9]{3}
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### 31.2.10.2 Exact3NumericText

*Definition:* Specifies a numeric string with an exact length of 3 digits.

*Type:* Text

#### Format

pattern	[0-9]{3}
---------	----------

### 31.2.10.3 Max104Text

*Definition:* Specifies a character string with a maximum length of 104 characters.

*Type:* Text

**Format**

minLength	1
maxLength	104

**31.2.10.4 Max10Text**

*Definition:* Specifies a character string with a maximum length of 10 characters.

*Type:* Text

**Format**

minLength	1
maxLength	10

**31.2.10.5 Max140Text**

*Definition:* Specifies a character string with a maximum length of 140 characters.

*Type:* Text

**Format**

minLength	1
maxLength	140

**31.2.10.6 Max16Text**

*Definition:* Specifies a character string with a maximum length of 16 characters.

*Type:* Text

**Format**

minLength	1
maxLength	16

**31.2.10.7 Max20000Text**

*Definition:* Specifies a character string with a maximum length of 20,000 characters.

*Type:* Text

**Format**

minLength	1
maxLength	20000

**31.2.10.8 Max256Text**

*Definition:* Specifies a character string with a maximum length of 256 characters.

*Type:* Text

**Format**

minLength	1
maxLength	256

**31.2.10.9 Max350Text**

*Definition:* Specifies a character string with a maximum length of 350 characters.

*Type:* Text

**Format**

minLength	1
maxLength	350

**31.2.10.10 Max35Text**

*Definition:* Specifies a character string with a maximum length of 35 characters.

*Type:* Text

**Format**

minLength	1
maxLength	35

**31.2.10.11 Max37Text**

*Definition:* Specifies a character string with a maximum length of 37 characters.

*Type:* Text

**Format**

minLength	1
maxLength	37

**31.2.10.12 Max3NumericText**

*Definition:* Specifies a numeric string with a maximum length of 3 digits.

*Type:* Text

**Format**

pattern	[0-9]{1,3}
---------	------------

**31.2.10.13 Max3Text**

*Definition:* Specifies a character string with a maximum length of 3 characters.

*Type:* Text

**Format**

minLength	1
maxLength	3

**31.2.10.14 Max45Text**

*Definition:* Specifies a character string with a maximum length of 45 characters.

*Type:* Text

**Format**

minLength	1
maxLength	45

**31.2.10.15 Max500Text**

*Definition:* Specifies a character string with a maximum length of 500 characters.

*Type:* Text

**Format**

minLength	1
maxLength	500

**31.2.10.16 Max6Text**

*Definition:* Specifies a character string with a maximum length of 6 characters.

*Type:* Text

**Format**

minLength	1
maxLength	6

**31.2.10.17 Max70Text**

*Definition:* Specifies a character string with a maximum length of 70characters.

*Type:* Text

**Format**

minLength	1
maxLength	70

**31.2.10.18 Max76Text**

*Definition:* Specifies a character string with a maximum length of 76 characters.

*Type:* Text

**Format**

minLength	1
maxLength	76

**31.2.10.19 Min2Max3AlphaText**

*Definition:* Specifies an alpha string with a minimum length of 2 characters and a maximum length of 3 characters.

*Type:* Text

**Format**

pattern	[a-zA-Z]{2,3}
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**31.2.10.20 Min2Max3NumericText**

*Definition:* Specifies a numeric string with a minimum length of 2 digits, and a maximum length of 3 digits.

*Type:* Text

**Format**

pattern	[0-9]{2,3}
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**31.2.10.21 Min6Max8Text**

*Definition:* Specifies a character string with a minimum length of 6 characters, and a maximum length of 8 characters.

*Type:* Text

**Format**

minLength	6
maxLength	8

**31.2.10.22 Min8Max28NumericText**

*Definition:* Specifies a numeric string with a minimum length of 8 digits, and a maximum length of 28 digits.

*Type:* Text

**Format**

pattern	[0-9]{8,28}
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