

ISO 20022

Card Sale to POI - Merchant to Acceptor - ISO - Latest
version

Message Definition Report - Part 2

Approved by the Cards and Related Retail Financial Services SEG
on 4 February 2020

This document provides details of the Message Definitions for Card Sale to POI - Merchant to Acceptor - ISO - Latest
version.

27 February 2020

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1 Message Set Overview

Introduction

Set of messages that support card-related, financial services between a Sale System and a Point of Interaction (POI) system.

1.1 List of MessageDefinitions

The following table lists all MessageDefinitions described in this book.

MessageDefinition	Definition
casp.001.001.02 SaleToPOIServiceRequestV02	This SaleToPOIServiceRequest message is sent by a sale system to trig a financial service on POI system.
casp.002.001.02 SaleToPOIServiceResponseV02	The SaleToPOIServiceResponse message is sent by a POI to provide the outcome of a financial service.
casp.003.001.02 SaleToPOIReconciliationRequestV02	The SaleToPOIReconciliationRequest message is sent by a sale system to request for reconciliation between sale and POI systems.
casp.004.001.02 SaleToPOIReconciliationResponseV02	The SaleToPOIReconciliationResponse message is sent by a POI to provide the result of reconciliation process between sale and POI systems.
casp.005.001.02 SaleToPOISessionManagementRequestV02	The SaleToPOISessionManagementRequest message is sent by a sale system to select an administrative service related to session management.
casp.006.001.02 SaleToPOISessionManagementResponseV02	The SaleToPOISessionManagementResponse message is sent by a POI to provide the result of an administrative service related to session management.
casp.007.001.02 SaleToPOIAdministrativeRequestV02	The SaleToPOIAdministrativeRequest message is sent by a sale system to POI System to request for an Administrative service.
casp.008.001.02 SaleToPOIAdministrativeResponseV02	The SaleToPOIAdministrativeResponse message is sent by a POI System to a sale system to provide response to an adminnistrative service.
casp.009.001.02 SaleToPOIReportRequestV02	The SaleToPOIReportRequest message is sent by sale system to request a report service.
casp.010.001.02 SaleToPOIReportResponseV02	This SaleToPOIReportResponse message is sent by a POI to provide the report previously expected by a sale system.
casp.011.001.02 SaleToPOIAbortV02	The SaleToPOIAbort message is sent by a sale system to abort process on POI.
casp.012.001.02 SaleToPOIEventNotificationV02	The SaleToPOIEventNotification message is sent by a POI or a sale terminal to inform the other about the happening of an event.
casp.013.001.02 SaleToPOIMessageRejectionV02	The SaleToPOIMessageRejection message is sent by one of the parties when it detects a technical or functional error in a previous received message.
casp.014.001.02 SaleToPOIMessageStatusRequestV02	The SaleToPOIMessageStatusRequest message is sent by a sale system when the sale system wants to know the status of previous message that has not be answered.

MessageDefinition	Definition
casp.015.001.02 SaleToPOIMessageStatusResponseV02	The SaleToPOIMessageStatusResponse message is sent by a POI System to respond to the sale system at a previous message status request.
casp.016.001.02 SaleToPOIDeviceRequestV02	The SaleTOPOIDeviceRequest message is sent by the sale system to POI system to request a device service.
casp.017.001.02 SaleToPOIDeviceResponseV02	The SaleToPOIDeviceResponse message is sent by a POI System to sale system to provide result of a device request.

2 casp.001.001.02 SaleToPOIServiceRequestV02

2.1 MessageDefinition Functionality

This SaleToPOIServiceRequest message is sent by a sale system to trig a financial service on POI system.

Outline

The SaleToPOIServiceRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. ServiceRequest
Information related to a service request.
- C. 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
	Message root <Document> <SaleToPOISvcReq>	[1..1]			
	Header <Hdr>	[1..1]			13
	MessageFunction <MsgFctn>	[1..1]	CodeSet		13
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		14
	ExchangeIdentification <XchgId>	[1..1]	Text		14
	CreationDateTime <CreDtTm>	[1..1]	DateTime		14
	InitiatingParty <InitgPty>	[1..1]	±		15
	RecipientParty <RcptPty>	[0..1]	±		15
	Traceability <Tracblt>	[0..*]	±		16
	ServiceRequest <SvcReq>	[1..1]			16
	Environment <Envt>	[1..1]	±		21
	Context <Cntxt>	[1..1]	±		27
	ServiceContent <SvcCntt>	[1..1]	CodeSet		30
	PaymentRequest <PmtReq>	[0..1]			30
	PaymentTransaction <PmtTx>	[0..1]	±		31
	LoyaltyData <LltyData>	[0..*]			34
	CustomerOrder <CstmrOrdr>	[0..1]	±		34
	Account <Acct>	[0..1]	±		35
	Amount <Amt>	[0..1]			35
	Unit <Unit>	[0..1]	CodeSet		36
	Currency <Ccy>	[0..1]	CodeSet	C1	36
	Amount <Amt>	[1..1]	Amount		36
	ReversalRequest <RvslReq>	[0..1]			36
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		37
	ReversalReason <RvslRsn>	[1..1]	CodeSet		40
	ReversedAmount <RvsdAmt>	[0..1]	Amount		40
	CustomerOrder <CstmrOrdr>	[0..1]	±		40
	BalanceInquiryRequest <BalInqryReq>	[0..1]			41
	PaymentAccountRequest <PmtAcctReq>	[0..1]			42
	AccountType <AcctTp>	[0..1]	CodeSet		43

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	AccountReference <AcctRef>	[0..1]	Text		44
	LoyaltyAccountRequest <LtyAcctReq>	[0..1]			44
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	Account <Acct>	[0..1]	±		45
	StoredValueAccountRequest <StordValAcctReq>	[0..1]			45
	Data <Data>	[1..*]			46
	Provider <Prvdr>	[0..1]	Text		47
	TransactionType <TxTp>	[1..1]	CodeSet		47
	AccountIdentification <AcctId>	[0..1]			48
	AccountType <AcctTp>	[0..1]	CodeSet		48
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		51
	ProductCode <PdctCd>	[0..1]	Text		54
	EANUPC <EANUPC>	[0..1]	Text		54
	ItemAmount <ItmAmt>	[0..1]	Amount		54
	Currency <Ccy>	[0..1]	CodeSet	C1	54
	HostTransactionIdentification <HstTxId>	[0..1]	±		55
	LoyaltyRequest <LtyReq>	[0..1]			55
	CustomerOrder <CstmrOrd>	[0..1]	±		56
	Transaction <Tx>	[1..1]			56
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		56
	Currency <Ccy>	[0..1]	CodeSet	C1	57

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[0..1]	Amount		57
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		57
	SaleItem <SaleItm>	[0..*]	±		60
	Data <Data>	[0..*]			61
	CustomerOrder <CstmrOrd>	[0..1]	±		61
	Account <Acct>	[0..1]	±		62
	Amount <Amt>	[0..1]			62
	Unit <Unit>	[0..1]	CodeSet		63
	Currency <Ccy>	[0..1]	CodeSet	C1	63
	Amount <Amt>	[1..1]	Amount		63
	StoredValueRequest <StordValReq>	[0..1]			63
	Data <Data>	[1..*]			64
	Provider <Prvdr>	[0..1]	Text		65
	TransactionType <TxTp>	[1..1]	CodeSet		65
	AccountIdentification <AcctId>	[0..1]			66
	AccountType <AcctTp>	[0..1]	CodeSet		66
	IdentificationType <IdTp>	[0..1]	CodeSet		67
	Identification <Id>	[0..1]	Text		67
	Brand <Brnd>	[0..1]	Text		68
	Provider <Prvdr>	[0..1]	Text		68
	OwnerName <OwnrNm>	[0..1]	Text		68
	ExpiryDate <XpryDt>	[0..1]	Text		68
	EntryMode <NtryMd>	[0..1]	CodeSet		68
	Currency <Ccy>	[0..1]	CodeSet	C1	69
	Balance <Bal>	[0..1]	Amount		69
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		69
	ProductCode <PdctCd>	[0..1]	Text		72
	EANUPC <EANUPC>	[0..1]	Text		72
	ItemAmount <ItmAmt>	[0..1]	Amount		72
	Currency <Ccy>	[0..1]	CodeSet	C1	72
	HostTransactionIdentification <HstTxId>	[0..1]	±		73

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	BatchRequest <BtchReq>	[0..1]			73
	RemoveAllFlag <RmvAllFlg>	[0..1]	Indicator		75
	TransactionToPerform <TxToPrfrm>	[0..*]			75
{Or	PaymentRequest <PmtReq>	[0..1]			77
	PaymentTransaction <PmtTx>	[0..1]	±		77
	LoyaltyData <LltyData>	[0..*]			80
	CustomerOrder <CstmrOrd>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82
Or	LoyaltyRequest <LltyReq>	[0..1]			82
	CustomerOrder <CstmrOrd>	[0..1]	±		83
	Transaction <Tx>	[1..1]			84
	LoyaltyTransactionType <LltyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <SaleItm>	[0..*]	±		88
	Data <Data>	[0..*]			89
	CustomerOrder <CstmrOrd>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91
Or}	ReversalRequest <RvslReq>	[0..1]			91
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		92
	ReversalReason <RvslRsn>	[1..1]	CodeSet		95
	ReversedAmount <RvsdAmt>	[0..1]	Amount		95

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..1]	±		95
	EnableServiceRequest <NbISvcReq>	[0..1]			96
	TransactionAction <TxActn>	[1..1]	CodeSet		96
	ServicesEnabled <SvcNbld>	[0..1]	CodeSet		96
	DisplayOutput <DispOutpt>	[0..1]	±		97
	CardAcquisitionRequest <CardAcqstnReq>	[0..1]			98
	AllowedPaymentBrand <AllwdPmtBrnd>	[0..*]	Text		99
	AllowedLoyaltyBrand <AllwdLltyBrnd>	[0..*]	Text		99
	ForceCustomerSelectionFlag <ForceCstmrSelctnFlg>	[0..1]	Indicator		99
	TotalAmount <TtlAmt>	[0..1]	Amount		99
	PaymentType <PmtTp>	[0..1]	CodeSet		99
	CashBackFlag <CshBckFlg>	[0..1]	Indicator		100
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		100
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		100
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		100
	SupplementaryData <SplmtryData>	[0..*]	±	C5	100
	SecurityTrailer <SctyTrlr>	[0..1]	±		101

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 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 **ValidationByTable**

Must be a valid terrestrial language.

C7 **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

2.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

2.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		13
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		14
	ExchangeIdentification <XchgId>	[1..1]	Text		14
	CreationDateTime <CreDtTm>	[1..1]	DateTime		14
	InitiatingParty <InitgPty>	[1..1]	±		15
	RecipientParty <RcptPty>	[0..1]	±		15
	Traceability <Tracblt>	[0..*]	±		16

2.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.

CodeName	Name	Definition
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

2.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

2.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

2.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

2.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

2.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

2.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

2.4.2 ServiceRequest <SvcReq>

Presence: [1..1]

Definition: Information related to a service request.

ServiceRequest <SvcReq> contains the following **ServiceRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		21
	Context <Cntxt>	[1..1]	±		27
	ServiceContent <SvcCntt>	[1..1]	CodeSet		30
	PaymentRequest <PmtReq>	[0..1]			30
	PaymentTransaction <PmtTx>	[0..1]	±		31
	LoyaltyData <LltyData>	[0..*]			34
	CustomerOrder <CstmrOrd>	[0..1]	±		34
	Account <Acct>	[0..1]	±		35
	Amount <Amt>	[0..1]			35
	Unit <Unit>	[0..1]	CodeSet		36
	Currency <Ccy>	[0..1]	CodeSet	C1	36
	Amount <Amt>	[1..1]	Amount		36
	ReversalRequest <RvslReq>	[0..1]			36
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		37
	ReversalReason <RvslRsn>	[1..1]	CodeSet		40
	ReversedAmount <RvslAmt>	[0..1]	Amount		40
	CustomerOrder <CstmrOrd>	[0..1]	±		40
	BalanceInquiryRequest <BalNqryReq>	[0..1]			41
	PaymentAccountRequest <PmtAcctReq>	[0..1]			42
	AccountType <AcctTp>	[0..1]	CodeSet		43
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	AccountReference <AcctRef>	[0..1]	Text		44
	LoyaltyAccountRequest <LltyAcctReq>	[0..1]			44
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	Account <Acct>	[0..1]	±		45
	StoredValueAccountRequest <StordValAcctReq>	[0..1]			45
	Data <Data>	[1..*]			46
	Provider <Prvdr>	[0..1]	Text		47
	TransactionType <TxTp>	[1..1]	CodeSet		47
	AccountIdentification <AcctId>	[0..1]			48
	AccountType <AcctTp>	[0..1]	CodeSet		48

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		51
	ProductCode <PdctCd>	[0..1]	Text		54
	EANUPC <EANUPC>	[0..1]	Text		54
	ItemAmount <ItmAmt>	[0..1]	Amount		54
	Currency <Ccy>	[0..1]	CodeSet	C1	54
	HostTransactionIdentification <HstTxld>	[0..1]	±		55
	LoyaltyRequest <LtyReq>	[0..1]			55
	CustomerOrder <CstmrOrd>	[0..1]	±		56
	Transaction <Tx>	[1..1]			56
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		56
	Currency <Ccy>	[0..1]	CodeSet	C1	57
	TotalAmount <TtlAmt>	[0..1]	Amount		57
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		57
	SaleItem <SaleItm>	[0..*]	±		60
	Data <Data>	[0..*]			61
	CustomerOrder <CstmrOrd>	[0..1]	±		61
	Account <Acct>	[0..1]	±		62
	Amount <Amt>	[0..1]			62
	Unit <Unit>	[0..1]	CodeSet		63
	Currency <Ccy>	[0..1]	CodeSet	C1	63
	Amount <Amt>	[1..1]	Amount		63
	StoredValueRequest <StordValReq>	[0..1]			63

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Data <Data>	[1..*]			64
	Provider <Prvdr>	[0..1]	Text		65
	TransactionType <TxTp>	[1..1]	CodeSet		65
	AccountIdentification <AcctId>	[0..1]			66
	AccountType <AcctTp>	[0..1]	CodeSet		66
	IdentificationType <IdTp>	[0..1]	CodeSet		67
	Identification <Id>	[0..1]	Text		67
	Brand <Brnd>	[0..1]	Text		68
	Provider <Prvdr>	[0..1]	Text		68
	OwnerName <OwnrNm>	[0..1]	Text		68
	ExpiryDate <XpryDt>	[0..1]	Text		68
	EntryMode <NtryMd>	[0..1]	CodeSet		68
	Currency <Ccy>	[0..1]	CodeSet	C1	69
	Balance <Bal>	[0..1]	Amount		69
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		69
	ProductCode <PdctCd>	[0..1]	Text		72
	EANUPC <EANUPC>	[0..1]	Text		72
	ItemAmount <ItmAmt>	[0..1]	Amount		72
	Currency <Ccy>	[0..1]	CodeSet	C1	72
	HostTransactionIdentification <HstTxId>	[0..1]	±		73
	BatchRequest <BtchReq>	[0..1]			73
	RemoveAllFlag <RmvAllFlg>	[0..1]	Indicator		75
	TransactionToPerform <TxToPrfrm>	[0..*]			75
{Or	PaymentRequest <PmtReq>	[0..1]			77
	PaymentTransaction <PmtTx>	[0..1]	±		77
	LoyaltyData <LltyData>	[0..*]			80
	CustomerOrder <CstmrOrd>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		82
Or	LoyaltyRequest <LtyReq>	[0..1]			82
	CustomerOrder <CstmrOrd>	[0..1]	±		83
	Transaction <Tx>	[1..1]			84
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <Saleitm>	[0..*]	±		88
	Data <Data>	[0..*]			89
	CustomerOrder <CstmrOrd>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91
Or}	ReversalRequest <RvslReq>	[0..1]			91
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		92
	ReversalReason <RvslRsn>	[1..1]	CodeSet		95
	ReversedAmount <RvsdAmt>	[0..1]	Amount		95
	CustomerOrder <CstmrOrd>	[0..1]	±		95
	EnableServiceRequest <NblSvcReq>	[0..1]			96
	TransactionAction <TxActn>	[1..1]	CodeSet		96
	ServicesEnabled <SvcNbl>	[0..1]	CodeSet		96
	DisplayOutput <DispOutpt>	[0..1]	±		97
	CardAcquisitionRequest <CardAcqstnReq>	[0..1]			98
	AllowedPaymentBrand <AllwdPmtBrnd>	[0..*]	Text		99
	AllowedLoyaltyBrand <AllwdLtyBrnd>	[0..*]	Text		99
	ForceCustomerSelectionFlag <ForceCstmrSelctnFlg>	[0..1]	Indicator		99
	TotalAmount <TtlAmt>	[0..1]	Amount		99
	PaymentType <PmtTp>	[0..1]	CodeSet		99

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CashBackFlag <CshBckFlg>	[0..1]	Indicator		100
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		100
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		100
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		100
	SupplementaryData <SplmtryData>	[0..*]	±	C5	100

2.4.2.1 Environment <Env>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LltyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

2.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

2.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService2Code" on page 909

CodeName	Name	Definition
FSPQ	FinancialPaymentRequest	The Sale System requests to the POI System to perform a payment(Purchase/Refund/PWCB/MOTO Payment/...).
FSRQ	FinancialReversalRequest	The Sale System requests to the POI System to perform a reversal partial or complete to cancel a former payment service.
FSIQ	FinancialBalanceInquiryRequest	The Sale System requests to the POI System to perform balance inquiry on the main account.
FSBQ	FinancialBatchRequest	The Batch message pair is used to request or get the result of transactions (payment, loyalty and reversal) performed without connection to the Sale system (Payment delivery).
FSLQ	FinancialLoyaltyRequest	The Sale System requests to the POI System a loyalty service like loading or redeem.
FSVQ	FinancialStoredValueRequest	The Sale System requests to the POI System to manage a stored value card or account (eg. Load, Payment, Reimbursement).
FSEQ	FinancialEnableServiceRequest	The Sale System requests to the POI System to enable a service on its side.
FSAQ	FinancialCardAcquisitionRequest	The Sale System requests to the POI System to handle a card data acquisition on the card reader.
FSCQ	FinancialReconciliationRequest	The Sale System request to the POI System different kinds of transaction reconciliation.

2.4.2.4 PaymentRequest <PmtReq>

Presence: [0..1]

Definition: Content of the payment request.

PaymentRequest <PmtReq> contains the following **PaymentRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentTransaction <PmtTx>	[0..1]	±		31
	LoyaltyData <LtyData>	[0..*]			34
	CustomerOrder <CstmrOrdr>	[0..1]	±		34
	Account <Acct>	[0..1]	±		35
	Amount <Amt>	[0..1]			35
	Unit <Unit>	[0..1]	CodeSet		36
	Currency <Ccy>	[0..1]	CodeSet	C1	36
	Amount <Amt>	[1..1]	Amount		36

2.4.2.4.1 PaymentTransaction <PmtTx>

Presence: [0..1]

Definition: Data associated with the Transaction.

PaymentTransaction <PmtTx> contains the following elements (see "[CardPaymentTransaction100](#)" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlr>	[0..1]	Indicator		613
	Conversion <Convs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.4.2 LoyaltyData <LltyData>

Presence: [0..*]

Definition: Data linked to card loyalty during payment.

LoyaltyData <LltyData> contains the following **LoyaltyRequestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrdr>	[0..1]	±		34
	Account <Acct>	[0..1]	±		35
	Amount <Amt>	[0..1]			35
	Unit <Unit>	[0..1]	CodeSet		36
	Currency <Ccy>	[0..1]	CodeSet	C1	36
	Amount <Amt>	[1..1]	Amount		36

2.4.2.4.2.1 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.4.2.2 Account <Acct>

Presence: [0..1]

Definition: Identification of a Loyalty account.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

2.4.2.4.2.3 Amount <Amt>

Presence: [0..1]

Definition: Amount of a loyalty account.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		36
	Currency <Ccy>	[0..1]	CodeSet	C1	36
	Amount <Amt>	[1..1]	Amount		36

2.4.2.4.2.3.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

2.4.2.4.2.3.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.4.2.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.5 ReversalRequest <RvslReq>

Presence: [0..1]

Definition: Content of the reversal request.

ReversalRequest <RvslReq> contains the following **ReversalRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		37
	ReversalReason <RvslRsn>	[1..1]	CodeSet		40
	ReversedAmount <RvsdAmt>	[0..1]	Amount		40
	CustomerOrder <CstmrOrd>	[0..1]	±		40

2.4.2.5.1 OriginalPaymentTransaction <OrgnlPmtTx>

Presence: [0..1]

Definition: Original transaction to reverse.

OriginalPaymentTransaction <OrgnlPmtTx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlr>	[0..1]	Indicator		613
	Conversion <Convs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.5.2 ReversalReason <RvslRsn>

Presence: [1..1]

Definition: Reason for this reversal.

Datatype: "ReversalReason1Code" on page 913

CodeName	Name	Definition
CUSC	CustomerCancellation	Customer cancels the transaction.
MALF	Malfunction	Reversal after a suspicion of malfunction of the POI system.
MERC	MerchantCancellation	Merchant or Cashier cancels the transaction.
UNAB	UnableToComplete	POI System unable to complete transaction.

2.4.2.5.3 ReversedAmount <RvsdAmt>

Presence: [0..1]

Definition: Amount to reverse (total or partial).

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.5.4 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: Specific Customer Order linked with the reversal.

CustomerOrder <CstmrOrdR> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdRId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdRStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.6 BalanceInquiryRequest <BalNqryReq>

Presence: [0..1]

Definition: Content of a Balance Inquiry Request.

BalanceInquiryRequest <BalNqryReq> contains the following **BalanceInquiryRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentAccountRequest <PmtAcctReq>	[0..1]			42
	AccountType <AcctTp>	[0..1]	CodeSet		43
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	AccountReference <AcctRef>	[0..1]	Text		44
	LoyaltyAccountRequest <LtyAcctReq>	[0..1]			44
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	Account <Acct>	[0..1]	±		45
	StoredValueAccountRequest <StordValAcctReq>	[0..1]			45
	Data <Data>	[1..*]			46
	Provider <Prvdr>	[0..1]	Text		47
	TransactionType <TxTp>	[1..1]	CodeSet		47
	AccountIdentification <AcctId>	[0..1]			48
	AccountType <AcctTp>	[0..1]	CodeSet		48
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		51
	ProductCode <PdctCd>	[0..1]	Text		54
	EANUPC <EANUPC>	[0..1]	Text		54
	ItemAmount <ItmAmt>	[0..1]	Amount		54
	Currency <Ccy>	[0..1]	CodeSet	C1	54
	HostTransactionIdentification <HstTxId>	[0..1]	±		55

2.4.2.6.1 PaymentAccountRequest <PmtAcctReq>

Presence: [0..1]

Definition: Data related to the account pointed by the payment card.

PaymentAccountRequest <PmtAcctReq> contains the following **PaymentAccountRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		43
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	AccountReference <AcctRef>	[0..1]	Text		44

2.4.2.6.1.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction. By Default the code Default is taken into account.

Datatype: "CardAccountType3Code" on page 876

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.

2.4.2.6.1.2 CustomerOrder <CstmrOrd>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.6.1.3 AccountReference <AcctRef>

Presence: [0..1]

Definition: Reference of an account (all types).

Datatype: "Max35Text" on page 929

2.4.2.6.2 LoyaltyAccountRequest <LtyAcctReq>

Presence: [0..1]

Definition: Data related to a requested Loyalty program or account.

LoyaltyAccountRequest <LtyAcctReq> contains the following **LoyaltyAccountRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..1]	±		44
	Account <Acct>	[0..1]	±		45

2.4.2.6.2.1 CustomerOrder <CstmrOrd>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrdr> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.6.2.2 Account <Acct>

Presence: [0..1]

Definition: Loyalty account information.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

2.4.2.6.3 StoredValueAccountRequest <StordValAcctReq>

Presence: [0..1]

Definition: Data related to a requested Stored value account.

StoredValueAccountRequest <StordValAcctReq> contains the following **StoredValueRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Data <Data>	[1..*]			46
	Provider <Prvdr>	[0..1]	Text		47
	TransactionType <TxTp>	[1..1]	CodeSet		47
	AccountIdentification <AcctId>	[0..1]			48
	AccountType <AcctTp>	[0..1]	CodeSet		48
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51
	OriginalPOITransaction <OrgnIPOITx>	[0..1]	±		51
	ProductCode <PdctCd>	[0..1]	Text		54
	EANUPC <EANUPC>	[0..1]	Text		54
	ItemAmount <ItmAmt>	[0..1]	Amount		54
	Currency <Ccy>	[0..1]	CodeSet	C1	54
	HostTransactionIdentification <HstTxId>	[0..1]	±		55

2.4.2.6.3.1 Data <Data>

Presence: [1..*]

Definition: Data related to the stored value card.

Data <Data> contains the following **StoredValueData3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Provider <Prvdr>	[0..1]	Text		47
	TransactionType <TxTp>	[1..1]	CodeSet		47
	AccountIdentification <AcctId>	[0..1]			48
	AccountType <AcctTp>	[0..1]	CodeSet		48
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		51
	ProductCode <PdctCd>	[0..1]	Text		54
	EANUPC <EANUPC>	[0..1]	Text		54
	ItemAmount <ItmAmt>	[0..1]	Amount		54
	Currency <Ccy>	[0..1]	CodeSet	C1	54
	HostTransactionIdentification <HstTxId>	[0..1]	±		55

2.4.2.6.3.1.1 Provider <Prvdr>

Presence: [0..1]

Definition: Identification of the provider of the stored value account load/reload.

Datatype: "Max35Text" on page 929

2.4.2.6.3.1.2 TransactionType <TxTp>

Presence: [1..1]

Definition: Identification of operation to proceed on the stored value account or the stored value card.

Datatype: "StoredValueTransactionType2Code" on page 916

CodeName	Name	Definition
ACTV	Activate	Activate the account or the card.
DUPL	Duplicate	Duplicate the code or number provided by the loading or activation.

CodeName	Name	Definition
LOAD	Load	Load the account or the card with money.
RESV	Reserve	Reserve the account (e.g. get an activation code).
REVS	Reverse	Reverse an activation or loading.
ULOA	Unload	Unload the account.
CLOS	CloseAccount	Close the account.
DCTV	Deactivate	Deactivate the account or the card.
OPEN	OpenAccount	Open the account.

2.4.2.6.3.1.3 AccountIdentification <AcctId>

Presence: [0..1]

Definition: Identification of the stored value account or the stored value card.

AccountIdentification <AcctId> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		48
	IdentificationType <IdTp>	[0..1]	CodeSet		49
	Identification <Id>	[0..1]	Text		49
	Brand <Brnd>	[0..1]	Text		50
	Provider <Prvdr>	[0..1]	Text		50
	OwnerName <OwnrNm>	[0..1]	Text		50
	ExpiryDate <XpryDt>	[0..1]	Text		50
	EntryMode <NtryMd>	[0..1]	CodeSet		50
	Currency <Ccy>	[0..1]	CodeSet	C1	51
	Balance <Bal>	[0..1]	Amount		51

2.4.2.6.3.1.3.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.

CodeName	Name	Definition
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

2.4.2.6.3.1.3.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

2.4.2.6.3.1.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

2.4.2.6.3.1.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

2.4.2.6.3.1.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

2.4.2.6.3.1.3.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

2.4.2.6.3.1.3.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

2.4.2.6.3.1.3.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.

CodeName	Name	Definition
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

2.4.2.6.3.1.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.6.3.1.3.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.6.3.1.4 OriginalPOITransaction <OrgnlPOITx>

Presence: [0..1]

Definition: Identification of a previous POI transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.6.3.1.5 ProductCode <PdctCd>

Presence: [0..1]

Definition: Product code of item purchased with the transaction.

Datatype: "Max35Text" on page 929

2.4.2.6.3.1.6 EANUPC <EANUPC>

Presence: [0..1]

Definition: Standard European Article Number Universal Product Code of item purchased with the transaction.

Datatype: "Max35NumericText" on page 929

2.4.2.6.3.1.7 ItemAmount <ItmAmt>

Presence: [0..1]

Definition: Total amount of the item line.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.6.3.1.8 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the monetary amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.6.3.1.9 HostTransactionIdentification <HstTxId>

Presence: [0..1]

Definition: Identification of the transaction by the host in charge of the stored value transaction.

HostTransactionIdentification <HstTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

2.4.2.7 LoyaltyRequest <LltyReq>

Presence: [0..1]

Definition: Content of the Loyalty Request.

LoyaltyRequest <LltyReq> contains the following **LoyaltyRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrdr>	[0..1]	±		56
	Transaction <Tx>	[1..1]			56
	LoyaltyTransactionType <LltyTxTp>	[1..1]	CodeSet		56
	Currency <Ccy>	[0..1]	CodeSet	C1	57
	TotalAmount <TtlAmt>	[0..1]	Amount		57
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		57
	SaleItem <SaleItm>	[0..*]	±		60
	Data <Data>	[0..*]			61
	CustomerOrder <CstmrOrdr>	[0..1]	±		61
	Account <Acct>	[0..1]	±		62
	Amount <Amt>	[0..1]			62
	Unit <Unit>	[0..1]	CodeSet		63
	Currency <Ccy>	[0..1]	CodeSet	C1	63
	Amount <Amt>	[1..1]	Amount		63

2.4.2.7.1 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrdr> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.7.2 Transaction <Tx>

Presence: [1..1]

Definition: Data related to the loyalty transaction.

Transaction <Tx> contains the following **LoyaltyTransaction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		56
	Currency <Ccy>	[0..1]	CodeSet	C1	57
	TotalAmount <TtlAmt>	[0..1]	Amount		57
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		57
	SaleItem <SaleItm>	[0..*]	±		60

2.4.2.7.2.1 LoyaltyTransactionType <LtyTxTp>

Presence: [1..1]

Definition: Data related to the loyalty transaction.

Datatype: "[LoyaltyTransactionType1Code](#)" on page 893

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.
AWRR	AwardRefund	Refund of a loyalty award transaction.
REBR	RebateRefund	Refund of a loyalty rebate transaction.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
REDR	RedemptionRefund	Refund of a loyalty redemption transaction.

2.4.2.7.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the loyalty transaction.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.7.2.3 TotalAmount <TtlAmt>

Presence: [0..1]

Definition: Amount of the payment transaction related to the Loyalty.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.7.2.4 OriginalPOITransaction <OrgnlPOITx>

Presence: [0..1]

Definition: Data of a previous POI payment transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrtctdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrd>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.7.2.5 SaleItem <Saleitm>

Presence: [0..*]

Definition: Item purchased with the transaction.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

2.4.2.7.3 Data <Data>

Presence: [0..*]

Definition: Data related to a Loyalty program or account.

Data <Data> contains the following **LoyaltyRequestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrdr>	[0..1]	±		61
	Account <Acct>	[0..1]	±		62
	Amount <Amt>	[0..1]			62
	Unit <Unit>	[0..1]	CodeSet		63
	Currency <Ccy>	[0..1]	CodeSet	C1	63
	Amount <Amt>	[1..1]	Amount		63

2.4.2.7.3.1 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.7.3.2 Account <Acct>

Presence: [0..1]

Definition: Identification of a Loyalty account.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

2.4.2.7.3.3 Amount <Amt>

Presence: [0..1]

Definition: Amount of a loyalty account.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		63
	Currency <Ccy>	[0..1]	CodeSet	C1	63
	Amount <Amt>	[1..1]	Amount		63

2.4.2.7.3.3.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

2.4.2.7.3.3.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.7.3.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.8 StoredValueRequest <StordValReq>

Presence: [0..1]

Definition: Content of a Stored Value Request.

StoredValueRequest <StordValReq> contains the following **StoredValueRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Data <Data>	[1..*]			64
	Provider <Prvdr>	[0..1]	Text		65
	TransactionType <TxTp>	[1..1]	CodeSet		65
	AccountIdentification <AcctId>	[0..1]			66
	AccountType <AcctTp>	[0..1]	CodeSet		66
	IdentificationType <IdTp>	[0..1]	CodeSet		67
	Identification <Id>	[0..1]	Text		67
	Brand <Brnd>	[0..1]	Text		68
	Provider <Prvdr>	[0..1]	Text		68
	OwnerName <OwnrNm>	[0..1]	Text		68
	ExpiryDate <XpryDt>	[0..1]	Text		68
	EntryMode <NtryMd>	[0..1]	CodeSet		68
	Currency <Ccy>	[0..1]	CodeSet	C1	69
	Balance <Bal>	[0..1]	Amount		69
	OriginalPOITransaction <OrgnIPOITx>	[0..1]	±		69
	ProductCode <PdctCd>	[0..1]	Text		72
	EANUPC <EANUPC>	[0..1]	Text		72
	ItemAmount <ItmAmt>	[0..1]	Amount		72
	Currency <Ccy>	[0..1]	CodeSet	C1	72
	HostTransactionIdentification <HstTxId>	[0..1]	±		73

2.4.2.8.1 Data <Data>

Presence: [1..*]

Definition: Data related to the stored value card.

Data <Data> contains the following **StoredValueData3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Provider <Prvdr>	[0..1]	Text		65
	TransactionType <TxTp>	[1..1]	CodeSet		65
	AccountIdentification <AcctId>	[0..1]			66
	AccountType <AcctTp>	[0..1]	CodeSet		66
	IdentificationType <IdTp>	[0..1]	CodeSet		67
	Identification <Id>	[0..1]	Text		67
	Brand <Brnd>	[0..1]	Text		68
	Provider <Prvdr>	[0..1]	Text		68
	OwnerName <OwnrNm>	[0..1]	Text		68
	ExpiryDate <XpryDt>	[0..1]	Text		68
	EntryMode <NtryMd>	[0..1]	CodeSet		68
	Currency <Ccy>	[0..1]	CodeSet	C1	69
	Balance <Bal>	[0..1]	Amount		69
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		69
	ProductCode <PdctCd>	[0..1]	Text		72
	EANUPC <EANUPC>	[0..1]	Text		72
	ItemAmount <ItmAmt>	[0..1]	Amount		72
	Currency <Ccy>	[0..1]	CodeSet	C1	72
	HostTransactionIdentification <HstTxId>	[0..1]	±		73

2.4.2.8.1.1 Provider <Prvdr>

Presence: [0..1]

Definition: Identification of the provider of the stored value account load/reload.

Datatype: "Max35Text" on page 929

2.4.2.8.1.2 TransactionType <TxTp>

Presence: [1..1]

Definition: Identification of operation to proceed on the stored value account or the stored value card.

Datatype: "StoredValueTransactionType2Code" on page 916

CodeName	Name	Definition
ACTV	Activate	Activate the account or the card.
DUPL	Duplicate	Duplicate the code or number provided by the loading or activation.

CodeName	Name	Definition
LOAD	Load	Load the account or the card with money.
RESV	Reserve	Reserve the account (e.g. get an activation code).
REVS	Reverse	Reverse an activation or loading.
ULOA	Unload	Unload the account.
CLOS	CloseAccount	Close the account.
DCTV	Deactivate	Deactivate the account or the card.
OPEN	OpenAccount	Open the account.

2.4.2.8.1.3 AccountIdentification <AcctId>

Presence: [0..1]

Definition: Identification of the stored value account or the stored value card.

AccountIdentification <AcctId> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		66
	IdentificationType <IdTp>	[0..1]	CodeSet		67
	Identification <Id>	[0..1]	Text		67
	Brand <Brnd>	[0..1]	Text		68
	Provider <Prvdr>	[0..1]	Text		68
	OwnerName <OwnrNm>	[0..1]	Text		68
	ExpiryDate <XpryDt>	[0..1]	Text		68
	EntryMode <NtryMd>	[0..1]	CodeSet		68
	Currency <Ccy>	[0..1]	CodeSet	C1	69
	Balance <Bal>	[0..1]	Amount		69

2.4.2.8.1.3.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.

CodeName	Name	Definition
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

2.4.2.8.1.3.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

2.4.2.8.1.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

2.4.2.8.1.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

2.4.2.8.1.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

2.4.2.8.1.3.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

2.4.2.8.1.3.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

2.4.2.8.1.3.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.

CodeName	Name	Definition
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

2.4.2.8.1.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.8.1.3.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.8.1.4 OriginalPOITransaction <OrgnIPOITx>

Presence: [0..1]

Definition: Identification of a previous POI transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.8.1.5 ProductCode <PdctCd>

Presence: [0..1]

Definition: Product code of item purchased with the transaction.

Datatype: "Max35Text" on page 929

2.4.2.8.1.6 EANUPC <EANUPC>

Presence: [0..1]

Definition: Standard European Article Number Universal Product Code of item purchased with the transaction.

Datatype: "Max35NumericText" on page 929

2.4.2.8.1.7 ItemAmount <ItmAmt>

Presence: [0..1]

Definition: Total amount of the item line.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.8.1.8 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the monetary amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.8.1.9 HostTransactionIdentification <HstTxId>

Presence: [0..1]

Definition: Identification of the transaction by the host in charge of the stored value transaction.

HostTransactionIdentification <HstTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

2.4.2.9 BatchRequest <BtchReq>

Presence: [0..1]

Definition: Content of the Batch Request.

BatchRequest <BtchReq> contains the following **BatchRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemoveAllFlag <RmvAllFlg>	[0..1]	Indicator		75
	TransactionToPerform <TxToPrfrm>	[0..*]			75
{Or	PaymentRequest <PmtReq>	[0..1]			77
	PaymentTransaction <PmtTx>	[0..1]	±		77
	LoyaltyData <LtyData>	[0..*]			80
	CustomerOrder <CstmrOrd>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82
Or	LoyaltyRequest <LtyReq>	[0..1]			82
	CustomerOrder <CstmrOrd>	[0..1]	±		83
	Transaction <Tx>	[1..1]			84
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <SaleItm>	[0..*]	±		88
	Data <Data>	[0..*]			89
	CustomerOrder <CstmrOrd>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91
Or}	ReversalRequest <RvslReq>	[0..1]			91
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		92
	ReversalReason <RvslRsn>	[1..1]	CodeSet		95
	ReversedAmount <RvsdAmt>	[0..1]	Amount		95
	CustomerOrder <CstmrOrd>	[0..1]	±		95

2.4.2.9.1 RemoveAllFlag <RmvAllFlg>

Presence: [0..1]

Definition: Flag to remove all the transactions.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

2.4.2.9.2 TransactionToPerform <TxToPrfrm>

Presence: [0..*]

Definition: Content of the Batch Request message.

TransactionToPerform <TxToPrfrm> contains one of the following **TransactionToPerform2Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	PaymentRequest <PmtReq>	[0..1]			77
	PaymentTransaction <PmtTx>	[0..1]	±		77
	LoyaltyData <LtyData>	[0..*]			80
	CustomerOrder <CstmrOrd>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82
Or	LoyaltyRequest <LtyReq>	[0..1]			82
	CustomerOrder <CstmrOrd>	[0..1]	±		83
	Transaction <Tx>	[1..1]			84
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <Saleitm>	[0..*]	±		88
	Data <Data>	[0..*]			89
	CustomerOrder <CstmrOrd>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91
Or}	ReversalRequest <RvslReq>	[0..1]			91
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		92
	ReversalReason <RvslRsn>	[1..1]	CodeSet		95
	ReversedAmount <RvslAmt>	[0..1]	Amount		95
	CustomerOrder <CstmrOrd>	[0..1]	±		95

2.4.2.9.2.1 PaymentRequest <PmtReq>

Presence: [0..1]

Definition: Content of the Payment Request message.

PaymentRequest <PmtReq> contains the following **PaymentRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentTransaction <PmtTx>	[0..1]	±		77
	LoyaltyData <LtyData>	[0..*]			80
	CustomerOrder <CstmrOrder>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82

2.4.2.9.2.1.1 PaymentTransaction <PmtTx>

Presence: [0..1]

Definition: Data associated with the Transaction.

PaymentTransaction <PmtTx> contains the following elements (see "[CardPaymentTransaction100](#)" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlrd>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.9.2.1.2 LoyaltyData <LltyData>

Presence: [0..*]

Definition: Data linked to card loyalty during payment.

LoyaltyData <LltyData> contains the following **LoyaltyRequestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrdr>	[0..1]	±		80
	Account <Acct>	[0..1]	±		81
	Amount <Amt>	[0..1]			81
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82

2.4.2.9.2.1.2.1 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.9.2.1.2.2 Account <Acct>

Presence: [0..1]

Definition: Identification of a Loyalty account.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

2.4.2.9.2.1.2.3 Amount <Amt>

Presence: [0..1]

Definition: Amount of a loyalty account.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		82
	Currency <Ccy>	[0..1]	CodeSet	C1	82
	Amount <Amt>	[1..1]	Amount		82

2.4.2.9.2.1.2.3.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

2.4.2.9.2.1.2.3.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.9.2.1.2.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.9.2.2 LoyaltyRequest <LtyReq>

Presence: [0..1]

Definition: Content of the Loyalty Request message.

LoyaltyRequest <LtyReq> contains the following **LoyaltyRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..1]	±		83
	Transaction <Tx>	[1..1]			84
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <Saleitm>	[0..*]	±		88
	Data <Data>	[0..*]			89
	CustomerOrder <CstmrOrd>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91

2.4.2.9.2.2.1 CustomerOrder <CstmrOrd>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.9.2.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Data related to the loyalty transaction.

Transaction <Tx> contains the following **LoyaltyTransaction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyTransactionType <LtyTxTp>	[1..1]	CodeSet		84
	Currency <Ccy>	[0..1]	CodeSet	C1	85
	TotalAmount <TtlAmt>	[0..1]	Amount		85
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		85
	SaleItem <SaleItm>	[0..*]	±		88

2.4.2.9.2.2.2.1 LoyaltyTransactionType <LtyTxTp>

Presence: [1..1]

Definition: Data related to the loyalty transaction.

Datatype: "LoyaltyTransactionType1Code" on page 893

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.
AWRR	AwardRefund	Refund of a loyalty award transaction.

CodeName	Name	Definition
REBR	RebateRefund	Refund of a loyalty rebate transaction.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
REDR	RedemptionRefund	Refund of a loyalty redemption transaction.

2.4.2.9.2.2.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the loyalty transaction.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.9.2.2.2.3 TotalAmount <TtlAmt>

Presence: [0..1]

Definition: Amount of the payment transaction related to the Loyalty.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.9.2.2.2.4 OriginalPOITransaction <OrgnlPOITx>

Presence: [0..1]

Definition: Data of a previous POI payment transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrd>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.9.2.2.2.5 SaleItem <Saleitm>

Presence: [0..*]

Definition: Item purchased with the transaction.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

2.4.2.9.2.2.3 Data <Data>

Presence: [0..*]

Definition: Data related to a Loyalty program or account.

Data <Data> contains the following **LoyaltyRequestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrdr>	[0..1]	±		89
	Account <Acct>	[0..1]	±		90
	Amount <Amt>	[0..1]			90
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91

2.4.2.9.2.2.3.1 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: To retrieve Card Acquisition Data.

CustomerOrder <CstmrOrd> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.9.2.2.3.2 Account <Acct>

Presence: [0..1]

Definition: Identification of a Loyalty account.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

2.4.2.9.2.2.3.3 Amount <Amt>

Presence: [0..1]

Definition: Amount of a loyalty account.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		91
	Currency <Ccy>	[0..1]	CodeSet	C1	91
	Amount <Amt>	[1..1]	Amount		91

2.4.2.9.2.2.3.3.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

2.4.2.9.2.2.3.3.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

2.4.2.9.2.2.3.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.9.2.3 ReversalRequest <RvslReq>

Presence: [0..1]

Definition: Content of the Reversal Request message.

ReversalRequest <RvslReq> contains the following **ReversalRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		92
	ReversalReason <RvslRsn>	[1..1]	CodeSet		95
	ReversedAmount <RvsdAmt>	[0..1]	Amount		95
	CustomerOrder <CstmrOrd>	[0..1]	±		95

2.4.2.9.2.3.1 OriginalPaymentTransaction <OrgnlPmtTx>

Presence: [0..1]

Definition: Original transaction to reverse.

OriginalPaymentTransaction <OrgnlPmtTx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItm>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

2.4.2.9.2.3.2 ReversalReason <RvslRsn>

Presence: [1..1]

Definition: Reason for this reversal.

Datatype: "ReversalReason1Code" on page 913

CodeName	Name	Definition
CUSC	CustomerCancellation	Customer cancels the transaction.
MALF	Malfuntion	Reversal after a suspicion of malfunction of the POI system.
MERC	MerchantCancellation	Merchant or Cashier cancels the transaction.
UNAB	UnableToComplete	POI System unable to complete transaction.

2.4.2.9.2.3.3 ReversedAmount <RvsdAmt>

Presence: [0..1]

Definition: Amount to reverse (total or partial).

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.9.2.3.4 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: Specific Customer Order linked with the reversal.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

2.4.2.10 EnableServiceRequest <NbISvcReq>

Presence: [0..1]

Definition: Content of the Enable Service Request.

EnableServiceRequest <NbISvcReq> contains the following **EnableServiceRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAction <TxActn>	[1..1]	CodeSet		96
	ServicesEnabled <SvcsNbld>	[0..1]	CodeSet		96
	DisplayOutput <DispOutpt>	[0..1]	±		97

2.4.2.10.1 TransactionAction <TxActn>

Presence: [1..1]

Definition: Action to realise on a transaction.

Datatype: "TransactionAction1Code" on page 919

CodeName	Name	Definition
STAR	StartTransaction	Start a transaction by a swipe ahead mechanism, with the services which are enabled.
STOP	Stop	Keep quiet after a swipe ahead mechanism.

2.4.2.10.2 ServicesEnabled <SvcsNbld>

Presence: [0..1]

Definition: Services enabled before the start-up of a transaction.

Datatype: "RetailerService2Code" on page 909

CodeName	Name	Definition
FSPQ	FinancialPaymentRequest	The Sale System requests to the POI System to perform a payment(Purchase/Refund/PWCB/MOTO Payment/...).
FSRQ	FinancialReversalRequest	The Sale System requests to the POI System to perform a reversal partial or complete to cancel a former payment service.
FSIQ	FinancialBalanceInquiryRequest	The Sale System requests to the POI System to perform balance inquiry on the main account.
FSBQ	FinancialBatchRequest	The Batch message pair is used to request or get the result of transactions (payment, loyalty and reversal) performed without connection to the Sale system (Payment delivery).
FSLQ	FinancialLoyaltyRequest	The Sale System requests to the POI System a loyalty service like loading or redeem.
FSVQ	FinancialStoredValueRequest	The Sale System requests to the POI System to manage a stored value card or account (eg. Load, Payment, Reimbursement).
FSEQ	FinancialEnableServiceRequest	The Sale System requests to the POI System to enable a service on its side.
FSAQ	FinancialCardAcquisitionRequest	The Sale System requests to the POI System to handle a card data acquisition on the card reader.
FSCQ	FinancialReconciliationRequest	The Sale System request to the POI System different kinds of transaction reconciliation.

2.4.2.10.3 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Prompt or welcome message.

DisplayOutput <DispOutput> contains the following elements (see "[ActionMessage7](#)" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRcdBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRcdVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRcdNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRcdErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

2.4.2.11 CardAcquisitionRequest <CardAcqstnReq>

Presence: [0..1]

Definition: Content of the Card Acquisition Request.

CardAcquisitionRequest <CardAcqstnReq> contains the following **CardAcquisitionRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AllowedPaymentBrand <AllwdPmtBrnd>	[0..*]	Text		99
	AllowedLoyaltyBrand <AllwdLltyBrnd>	[0..*]	Text		99
	ForceCustomerSelectionFlag <ForceCstmrSelctnFlg>	[0..1]	Indicator		99
	TotalAmount <TtlAmt>	[0..1]	Amount		99
	PaymentType <PmtTp>	[0..1]	CodeSet		99
	CashBackFlag <CshBckFlg>	[0..1]	Indicator		100
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		100
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		100
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		100

2.4.2.11.1 AllowedPaymentBrand <AllwdPmtBrnd>

Presence: [0..*]

Definition: Card payment brands allowed by the Sale System for the payment transaction.

Datatype: "Max35Text" on page 929

2.4.2.11.2 AllowedLoyaltyBrand <AllwdLltyBrnd>

Presence: [0..*]

Definition: Loyalty brands or programs allowed by the Sale System for the loyalty transaction.

Datatype: "Max35Text" on page 929

2.4.2.11.3 ForceCustomerSelectionFlag <ForceCstmrSelctnFlg>

Presence: [0..1]

Definition: Indicates if the Customer realises the selection of the card application.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

2.4.2.11.4 TotalAmount <TtlAmt>

Presence: [0..1]

Definition: Amount of the transaction. It allows the processing of a contactless card.

Datatype: "ImpliedCurrencyAndAmount" on page 860

2.4.2.11.5 PaymentType <PmtTp>

Presence: [0..1]

Definition: Type of payment transaction.

Datatype: "CardPaymentServiceType13Code" on page 880

CodeName	Name	Definition
CRDP	CardPayment	Card payment.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
IRES	InitialReservation	Initial reservation.
DEFR	DeferredPayment	Deferred payment.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
RECP	RecurringPayment	Recurring payment.
INSP	Instalment	Instalment payment.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.

CodeName	Name	Definition
RFND	Refund	Refund transaction.
VCAU	VoiceAuthorisation	Voice authorisation.

2.4.2.11.6 CashBackFlag <CshBckFlg>

Presence: [0..1]

Definition: Indicates if Cashback is allowed

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

2.4.2.11.7 SaleToPOIData <SaleToPOIData>

Presence: [0..1]

Definition: The POI System receives this information.

Datatype: ["Max70Text" on page 930](#)

2.4.2.11.8 SaleToAcquirerData <SaleToAcqrrData>

Presence: [0..1]

Definition: Sale information intended for the Acquirer.

Datatype: ["Max70Text" on page 930](#)

2.4.2.11.9 SaleToIssuerData <SaleToIssrData>

Presence: [0..1]

Definition: Sale information intended for the Issuer.

Datatype: ["Max70Text" on page 930](#)

2.4.2.12 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: [C5 "SupplementaryDataRule"](#)

SupplementaryData <SplmtryData> contains the following elements (see ["SupplementaryData1" on page 645](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

2.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

3 casp.002.001.02 SaleToPOIServiceResponseV02

3.1 MessageDefinition Functionality

The SaleToPOIServiceResponse message is sent by a POI to provide the outcome of a financial service.

Outline

The SaleToPOIServiceResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the response.
- B. ServiceResponse
Information related to the response of a service request.
- C. 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> <SaleToPOISvcRspn>	[1..1]			
	Header <Hdr>	[1..1]			108
	MessageFunction <MsgFctn>	[1..1]	CodeSet		108
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		109
	ExchangeIdentification <XchgId>	[1..1]	Text		110
	CreationDateTime <CreDtTm>	[1..1]	DateTime		110
	InitiatingParty <InitgPty>	[1..1]	±		110
	RecipientParty <RcptPty>	[0..1]	±		110
	Traceability <Tracblt>	[0..*]	±		111
	ServiceResponse <SvcRspn>	[1..1]			111
	Environment <Envt>	[1..1]	±		116
	Context <Cntxt>	[1..1]	±		122
	ServiceContent <SvcCntt>	[1..1]	CodeSet		125
	PaymentResponse <PmtRspn>	[0..1]			125
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		126
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		127
	POITransactionIdentification <POITxId>	[1..1]	±		127
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		127
	IssuerReferenceData <IssrRefData>	[0..1]	Text		127
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		127
	PaymentReceipt <PmtRct>	[0..*]	±		130
	LoyaltyResult <LltyRslt>	[0..*]			130
	Account <Acct>	[1..1]	±		131
	Amount <Amt>	[0..1]			132
	Unit <Unit>	[0..1]	CodeSet		132
	Currency <Ccy>	[0..1]	CodeSet	C1	132
	Amount <Amt>	[1..1]	Amount		132
	ServerData <SvrData>	[0..1]			132
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		133
	ApprovalCode <ApprvlCd>	[0..1]	Text		133

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		133
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		133
	Rebates <Rbts>	[0..1]			133
	TotalRebate <TtlRbt>	[0..1]	Amount		134
	RebateLabel <RbtLbl>	[0..1]	Text		134
	SaleItemRebate <SaleitmRbt>	[0..*]			134
	SaleItem <Saleitm>	[1..1]	±		134
	RebateLabel <RbtLbl>	[0..1]	Text		135
	CustomerOrder <CstmrOrd>	[0..*]	±		135
	ReversalResponse <RvsIRspn>	[0..1]			136
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		136
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		137
	POITransactionIdentification <POITxId>	[1..1]	±		137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		137
	IssuerReferenceData <IssrRefData>	[0..1]	Text		137
	ReversalTransactionResult <RvsITxRsIt>	[1..1]			137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		138
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		138
	CustomerOrder <CstmrOrd>	[0..*]	±		141
	ReversedAmount <RvsdAmt>	[0..1]	Amount		142
	Receipt <Rct>	[0..*]	±		142
	BalanceInquiryResponse <BalNqryRspn>	[0..1]			142
	PaymentAccount <PmtAcct>	[0..1]			143
	Currency <Ccy>	[0..1]	CodeSet	C1	143
	CurrentBalance <CurBal>	[0..1]	Amount		144
	PaymentAcquirerData <PmtAcqrrData>	[0..1]	±		144
	LoyaltyAccount <LtyAcct>	[0..1]	±		144
	StoredValueAccount <StordValAcct>	[0..*]			145
	AccountType <AcctTp>	[0..1]	CodeSet		145
	IdentificationType <IdTp>	[0..1]	CodeSet		146
	Identification <Id>	[0..1]	Text		146

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Brand <Brnd>	[0..1]	Text		146
	Provider <Prvdr>	[0..1]	Text		146
	OwnerName <OwnrNm>	[0..1]	Text		147
	ExpiryDate <XpryDt>	[0..1]	Text		147
	EntryMode <NtryMd>	[0..1]	CodeSet		147
	Currency <Ccy>	[0..1]	CodeSet	C1	147
	Balance <Bal>	[0..1]	Amount		148
	Receipt <Rct>	[0..*]	±		148
	LoyaltyResponse <LtyRspn>	[0..1]			148
	SaleTransactionIdentification <SaleTxld>	[1..1]	±		149
	POITransactionIdentification <POITxld>	[1..1]	±		149
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		150
	Result <Rslt>	[0..*]			150
	Account <Acct>	[1..1]	±		151
	Amount <Amt>	[0..1]			151
	Unit <Unit>	[0..1]	CodeSet		151
	Currency <Ccy>	[0..1]	CodeSet	C1	151
	Amount <Amt>	[1..1]	Amount		152
	ServerData <SvrData>	[0..1]			152
	LoyaltyServerIdentification <LtySvrld>	[0..1]	Text		152
	ApprovalCode <ApprvlCd>	[0..1]	Text		152
	LoyaltyTransactionIdentification <LtyTxld>	[0..1]	±		152
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		153
	Rebates <Rbts>	[0..1]			153
	TotalRebate <TtlRbt>	[0..1]	Amount		153
	RebateLabel <RbtLbl>	[0..1]	Text		153
	SaleItemRebate <SaleitmRbt>	[0..*]			153
	SaleItem <Saleitm>	[1..1]	±		154
	RebateLabel <RbtLbl>	[0..1]	Text		154
	StoredValueResponse <StordValRspn>	[0..1]			154
	POITransactionIdentification <POITxld>	[1..1]	±		155

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[0..*]			156
	Provider <Prvdr>	[0..1]	Text		156
	TransactionType <TxTp>	[1..1]	CodeSet		156
	AccountIdentification <AcctId>	[0..1]			157
	AccountType <AcctTp>	[0..1]	CodeSet		157
	IdentificationType <IdTp>	[0..1]	CodeSet		158
	Identification <Id>	[0..1]	Text		158
	Brand <Brnd>	[0..1]	Text		159
	Provider <Prvdr>	[0..1]	Text		159
	OwnerName <OwnrNm>	[0..1]	Text		159
	ExpiryDate <XpryDt>	[0..1]	Text		159
	EntryMode <NtryMd>	[0..1]	CodeSet		159
	Currency <Ccy>	[0..1]	CodeSet	C1	160
	Balance <Bal>	[0..1]	Amount		160
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		160
	ProductCode <PdctCd>	[0..1]	Text		163
	EANUPC <EANUPC>	[0..1]	Text		163
	ItemAmount <ItmAmt>	[0..1]	Amount		163
	Currency <Ccy>	[0..1]	CodeSet	C1	163
	HostTransactionIdentification <HstTxId>	[0..1]	±		164
	Receipt <Rct>	[0..*]	±		164
	BatchResponse <BtchRspn>	[0..1]			164
	PerformedTransaction <PrfrmdTx>	[0..*]			165
	Response <Rspn>	[1..1]	±		166
	SaleTransactionIdentification <SaleTxId>	[0..1]	±		167
	POITransactionIdentification <POITxId>	[0..1]	±		167
	POIReconciliationIdentification <POIRcnclnId>	[0..1]	Text		167
	PaymentResult <PmtRslt>	[0..1]	±		167
	LoyaltyResult <LtyRslt>	[0..*]			170
	Account <Acct>	[1..1]	±		171
	Amount <Amt>	[0..1]			172

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172
	ServerData <SvrData>	[0..1]			172
	LoyaltyServerIdentification <LltySvrld>	[0..1]	Text		173
	ApprovalCode <ApprvlCd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LltyTxld>	[0..1]	±		173
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		173
	Rebates <Rbts>	[0..1]			173
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLbl>	[0..1]	Text		174
	SaleItemRebate <SaleItmRbt>	[0..*]			174
	SaleItem <SaleItm>	[1..1]	±		174
	RebateLabel <RbtLbl>	[0..1]	Text		175
	ReversedAmount <RvsdAmt>	[0..1]	Amount		175
	CardAcquisitionResponse <CardAcqstnRspn>	[0..1]			175
	POITransactionIdentification <POITxld>	[1..1]	±		176
	PaymentBrand <PmtBrnd>	[0..*]	Text		176
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	176
	LoyaltyAccount <LltyAcct>	[0..*]	±		176
	CustomerOrder <CstmrOrdr>	[0..*]	±		177
	Response <Rspn>	[1..1]	±		177
	SupplementaryData <SplmtryData>	[0..*]	±	C5	178
	SecurityTrailer <SctyTrlr>	[0..1]	±		178

3.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

C7 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

3.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

3.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the response.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		108
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		109
	ExchangeIdentification <XchgId>	[1..1]	Text		110
	CreationDateTime <CreDtTm>	[1..1]	DateTime		110
	InitiatingParty <InitgPty>	[1..1]	±		110
	RecipientParty <RcptPty>	[0..1]	±		110
	Traceability <Tracblt>	[0..*]	±		111

3.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

3.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

3.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

3.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

3.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

3.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrld>	[1..1]	Text		640
	UTMNorthward <UTMNRthwrld>	[1..1]	Text		641

3.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

3.4.2 ServiceResponse <SvcRspn>

Presence: [1..1]

Definition: Information related to the response of a service request.

ServiceResponse <SvcRspn> contains the following **ServiceResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		116
	Context <Cntxt>	[1..1]	±		122
	ServiceContent <SvcCntt>	[1..1]	CodeSet		125
	PaymentResponse <PmtRspn>	[0..1]			125
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		126
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		127
	POITransactionIdentification <POITxId>	[1..1]	±		127
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		127
	IssuerReferenceData <IssrRefData>	[0..1]	Text		127
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		127
	PaymentReceipt <PmtRct>	[0..*]	±		130
	LoyaltyResult <LtyRslt>	[0..*]			130
	Account <Acct>	[1..1]	±		131
	Amount <Amt>	[0..1]			132
	Unit <Unit>	[0..1]	CodeSet		132
	Currency <Ccy>	[0..1]	CodeSet	C1	132
	Amount <Amt>	[1..1]	Amount		132
	ServerData <SvrData>	[0..1]			132
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		133
	ApprovalCode <ApprvlCd>	[0..1]	Text		133
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		133
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		133
	Rebates <Rbts>	[0..1]			133
	TotalRebate <TtlRbt>	[0..1]	Amount		134
	RebateLabel <RbtLabl>	[0..1]	Text		134
	SaleItemRebate <SaleItmRbt>	[0..*]			134
	SaleItem <SaleItm>	[1..1]	±		134
	RebateLabel <RbtLabl>	[0..1]	Text		135
	CustomerOrder <CstmrOrd>	[0..*]	±		135
	ReversalResponse <RvslRspn>	[0..1]			136
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		136

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		137
	POITransactionIdentification <POITxId>	[1..1]	±		137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		137
	IssuerReferenceData <IssrRefData>	[0..1]	Text		137
	ReversalTransactionResult <RvsITxRslt>	[1..1]			137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		138
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		138
	CustomerOrder <CstmrOrd>	[0..*]	±		141
	ReversedAmount <RvsdAmt>	[0..1]	Amount		142
	Receipt <Rct>	[0..*]	±		142
	BalanceInquiryResponse <BalNqryRspn>	[0..1]			142
	PaymentAccount <PmtAcct>	[0..1]			143
	Currency <Ccy>	[0..1]	CodeSet	C1	143
	CurrentBalance <CurBal>	[0..1]	Amount		144
	PaymentAcquirerData <PmtAcqrrData>	[0..1]	±		144
	LoyaltyAccount <LtyAcct>	[0..1]	±		144
	StoredValueAccount <StordValAcct>	[0..*]			145
	AccountType <AcctTp>	[0..1]	CodeSet		145
	IdentificationType <IdTp>	[0..1]	CodeSet		146
	Identification <Id>	[0..1]	Text		146
	Brand <Brnd>	[0..1]	Text		146
	Provider <Prvdr>	[0..1]	Text		146
	OwnerName <OwnrNm>	[0..1]	Text		147
	ExpiryDate <XpryDt>	[0..1]	Text		147
	EntryMode <NtryMd>	[0..1]	CodeSet		147
	Currency <Ccy>	[0..1]	CodeSet	C1	147
	Balance <Bal>	[0..1]	Amount		148
	Receipt <Rct>	[0..*]	±		148
	LoyaltyResponse <LtyRspn>	[0..1]			148
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		149
	POITransactionIdentification <POITxId>	[1..1]	±		149

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		150
	Result <Rslt>	[0..*]			150
	Account <Acct>	[1..1]	±		151
	Amount <Amt>	[0..1]			151
	Unit <Unit>	[0..1]	CodeSet		151
	Currency <Ccy>	[0..1]	CodeSet	C1	151
	Amount <Amt>	[1..1]	Amount		152
	ServerData <SvrData>	[0..1]			152
	LoyaltyServerIdentification <LltySvrld>	[0..1]	Text		152
	ApprovalCode <ApprvlCd>	[0..1]	Text		152
	LoyaltyTransactionIdentification <LltyTxld>	[0..1]	±		152
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		153
	Rebates <Rbts>	[0..1]			153
	TotalRebate <TtlRbt>	[0..1]	Amount		153
	RebateLabel <RbtLbl>	[0..1]	Text		153
	SaleItemRebate <SaleitmRbt>	[0..*]			153
	SaleItem <Saleitm>	[1..1]	±		154
	RebateLabel <RbtLbl>	[0..1]	Text		154
	StoredValueResponse <StordValRspn>	[0..1]			154
	POITransactionIdentification <POITxld>	[1..1]	±		155
	Result <Rslt>	[0..*]			156
	Provider <Prvdr>	[0..1]	Text		156
	TransactionType <TxTp>	[1..1]	CodeSet		156
	AccountIdentification <Acctld>	[0..1]			157
	AccountType <AcctTp>	[0..1]	CodeSet		157
	IdentificationType <ldTp>	[0..1]	CodeSet		158
	Identification <ld>	[0..1]	Text		158
	Brand <Brnd>	[0..1]	Text		159
	Provider <Prvdr>	[0..1]	Text		159
	OwnerName <OwnrNm>	[0..1]	Text		159
	ExpiryDate <XpryDt>	[0..1]	Text		159

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EntryMode <NtryMd>	[0..1]	CodeSet		159
	Currency <Ccy>	[0..1]	CodeSet	C1	160
	Balance <Bal>	[0..1]	Amount		160
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		160
	ProductCode <PdctCd>	[0..1]	Text		163
	EANUPC <EANUPC>	[0..1]	Text		163
	ItemAmount <ItmAmt>	[0..1]	Amount		163
	Currency <Ccy>	[0..1]	CodeSet	C1	163
	HostTransactionIdentification <HstTxld>	[0..1]	±		164
	Receipt <Rct>	[0..*]	±		164
	BatchResponse <BtchRspn>	[0..1]			164
	PerformedTransaction <PrfrmdTx>	[0..*]			165
	Response <Rspn>	[1..1]	±		166
	SaleTransactionIdentification <SaleTxld>	[0..1]	±		167
	POITransactionIdentification <POITxld>	[0..1]	±		167
	POIReconciliationIdentification <POIRcnccltnld>	[0..1]	Text		167
	PaymentResult <PmtRslt>	[0..1]	±		167
	LoyaltyResult <LtyRslt>	[0..*]			170
	Account <Acct>	[1..1]	±		171
	Amount <Amt>	[0..1]			172
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172
	ServerData <SvrData>	[0..1]			172
	LoyaltyServerIdentification <LtySvrld>	[0..1]	Text		173
	ApprovalCode <ApprvlCd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LtyTxld>	[0..1]	±		173
	HostReconciliationIdentification <HstRcnccltnld>	[0..1]	Text		173
	Rebates <Rbts>	[0..1]			173
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLbl>	[0..1]	Text		174

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItemRebate <SaleItemRbt>	[0..*]			174
	SaleItem <SaleItem>	[1..1]	±		174
	RebateLabel <RbtLabl>	[0..1]	Text		175
	ReversedAmount <RvsdAmt>	[0..1]	Amount		175
	CardAcquisitionResponse <CardAcqstnRspn>	[0..1]			175
	POITransactionIdentification <POITxld>	[1..1]	±		176
	PaymentBrand <PmtBrnd>	[0..*]	Text		176
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	176
	LoyaltyAccount <LltyAcct>	[0..*]	±		176
	CustomerOrder <CstmrOrdr>	[0..*]	±		177
	Response <Rspn>	[1..1]	±		177
	SupplementaryData <SplmtryData>	[0..*]	±	C5	178

3.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "CardPaymentEnvironment75" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <ScIScIyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwrdr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrdrhldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnvr>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

3.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <Dbtrld>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <Prtryld>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <Acctld>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <ld>	[1..1]	Text		778
	CreditorIdentification <Cdtrld>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <Prtryld>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <Regnld>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <Mndtld>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

3.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service response.

Datatype: "RetailerService3Code" on page 910

CodeName	Name	Definition
FSPP	FinancialPaymentResponse	The POI System sends a response to a payment request (Purchase/refund/PWCB/MOTO Payment/...).
FSRP	FinancialReversalResponse	The POI System sends a response to a reversal request.
FSIP	FinancialBalanceInquiryResponse	The POI System sends a response to a Balance Inquiry request.
FSBP	FinancialBatchResponse	The POI System sends a response to a batch processing request.
FSLP	FinancialLoyaltyResponse	The POI System sends a response to a loyalty processing request.
FSVP	FinancialStoredValueResponse	The POI System sends a response to a stored value card or account request.
FSEP	FinancialEnableServiceResponse	The POI System sends a response after enabling or not some service.
FSAP	FinancialCardAcquisitionResponse	The POI System sends a response to a card data acquisition request.
FSCP	FinancialReconciliationResponse	The POI System sends a response to a reconciliation request.

3.4.2.4 PaymentResponse <PmtRspn>

Presence: [0..1]

Definition: Data to respond to a Payment request.

PaymentResponse <PmtRspn> contains the following **PaymentResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxld>	[1..1]	±		126
	SaleReferenceIdentification <SaleRefld>	[0..1]	Text		127
	POITransactionIdentification <POITxld>	[1..1]	±		127
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		127
	IssuerReferenceData <IssrRefData>	[0..1]	Text		127
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		127
	PaymentReceipt <PmtRct>	[0..*]	±		130
	LoyaltyResult <LltyRslt>	[0..*]			130
	Account <Acct>	[1..1]	±		131
	Amount <Amt>	[0..1]			132
	Unit <Unit>	[0..1]	CodeSet		132
	Currency <Ccy>	[0..1]	CodeSet	C1	132
	Amount <Amt>	[1..1]	Amount		132
	ServerData <SvrData>	[0..1]			132
	LoyaltyServerIdentification <LltySvrld>	[0..1]	Text		133
	ApprovalCode <ApprvlCd>	[0..1]	Text		133
	LoyaltyTransactionIdentification <LltyTxld>	[0..1]	±		133
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		133
	Rebates <Rbts>	[0..1]			133
	TotalRebate <TtlRbt>	[0..1]	Amount		134
	RebateLabel <RbtLabl>	[0..1]	Text		134
	SaleItemRebate <SaleitmRbt>	[0..*]			134
	SaleItem <Saleitm>	[1..1]	±		134
	RebateLabel <RbtLabl>	[0..1]	Text		135
	CustomerOrder <CstmrOrd>	[0..*]	±		135

3.4.2.4.1 SaleTransactionIdentification <SaleTxld>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.4.2 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: ["Max35Text"](#) on page 929

3.4.2.4.3 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.4.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: ["Max35Text"](#) on page 929

3.4.2.4.5 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: ["Max140Text"](#) on page 927

3.4.2.4.6 RetailerPaymentResult <RtlrPmtRsIt>

Presence: [1..1]

Definition: Data related to the result of a processed payment transaction.

RetailerPaymentResult <RtlrPmtRslt> contains the following elements (see
"RetailerPaymentResult2" on page 650 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		653
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		654
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		654
	RequestedTransaction <ReqdTx>	[0..1]	±		655
	TransactionResponse <TxRspn>	[0..1]			658
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrtctdBal>	[0..1]	±		669
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgtAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <Dclrtndtls>	[0..*]	±		677
	CustomerOrder <CstmrOrd>	[0..*]	±		677
	ImageCapturedSignature <Imgcaptdsgntr>	[0..1]			678
	ImageFormat <Imgcfrmt>	[1..1]	Text		678
	ImageData <Imgcdata>	[0..1]	Binary		678
	ImageReference <Imgcrrf>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679
	ProtectedCapturedSignature <Prctcdcaptdsgntr>	[0..1]	±		679
	MerchantOverrideFlag <Mrchntovrrdflg>	[0..1]	Indicator		679
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	679
	OnlineFlag <Onlnflg>	[0..1]	Indicator		679

3.4.2.4.7 PaymentReceipt <PmtRct>

Presence: [0..*]

Definition: Customer or Merchant payment receipt.

PaymentReceipt <PmtRct> contains the following elements (see "[PaymentReceipt2](#)" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <Docqlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <Intgrtdprtflg>	[0..1]	Indicator		704
	RequiredSignatureFlag <Reqrdsgntrflg>	[0..1]	Indicator		704
	OutputContent <Outptcntt>	[1..1]	±		705

3.4.2.4.8 LoyaltyResult <LltyRslt>

Presence: [0..*]

Definition: Data related to the result of a processed loyalty transaction.

LoyaltyResult <LtyRslt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		131
	Amount <Amt>	[0..1]			132
	Unit <Unit>	[0..1]	CodeSet		132
	Currency <Ccy>	[0..1]	CodeSet	C1	132
	Amount <Amt>	[1..1]	Amount		132
	ServerData <SvrData>	[0..1]			132
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		133
	ApprovalCode <ApprvlCd>	[0..1]	Text		133
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		133
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		133
	Rebates <Rbts>	[0..1]			133
	TotalRebate <TtlRbt>	[0..1]	Amount		134
	RebateLabel <RbtLbl>	[0..1]	Text		134
	SaleItemRebate <SaleItmRbt>	[0..*]			134
	SaleItem <SaleItm>	[1..1]	±		134
	RebateLabel <RbtLbl>	[0..1]	Text		135

3.4.2.4.8.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

3.4.2.4.8.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		132
	Currency <Ccy>	[0..1]	CodeSet	C1	132
	Amount <Amt>	[1..1]	Amount		132

3.4.2.4.8.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

3.4.2.4.8.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.4.8.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.4.8.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		133
	ApprovalCode <ApprvICd>	[0..1]	Text		133
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		133
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		133

3.4.2.4.8.3.1 LoyaltyServerIdentification <LtySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

3.4.2.4.8.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

3.4.2.4.8.3.3 LoyaltyTransactionIdentification <LtyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.4.8.3.4 HostReconciliationIdentification <HstRcncltnId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

3.4.2.4.8.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		134
	RebateLabel <RbtLbl>	[0..1]	Text		134
	SaleItemRebate <SaleitmRbt>	[0..*]			134
	SaleItem <Saleitm>	[1..1]	±		134
	RebateLabel <RbtLbl>	[0..1]	Text		135

3.4.2.4.8.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.4.8.4.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.4.8.4.3 SaleItemRebate <SaleitmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleitmRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		134
	RebateLabel <RbtLbl>	[0..1]	Text		135

3.4.2.4.8.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

3.4.2.4.8.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.4.9 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

3.4.2.5 ReversalResponse <RvslRspn>

Presence: [0..1]

Definition: Response Data to a Reversal request.

ReversalResponse <RvslRspn> contains the following **ReversalResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		136
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		137
	POITransactionIdentification <POITxId>	[1..1]	±		137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		137
	IssuerReferenceData <IssrRefData>	[0..1]	Text		137
	ReversalTransactionResult <RvslTxRslt>	[1..1]			137
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		138
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		138
	CustomerOrder <CstmrOrd>	[0..*]	±		141
	ReversedAmount <RvsdAmt>	[0..1]	Amount		142
	Receipt <Rct>	[0..*]	±		142

3.4.2.5.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.5.2 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: "Max35Text" on page 929

3.4.2.5.3 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.5.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: "Max35Text" on page 929

3.4.2.5.5 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: "Max35Text" on page 929

3.4.2.5.6 ReversalTransactionResult <RvsITxRslt>

Presence: [1..1]

Definition: Result of reversal transaction.

ReversalTransactionResult <RvsITxRsIt> contains the following **RetailerReversalResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		138
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		138
	CustomerOrder <CstmrOrd>	[0..*]	±		141

3.4.2.5.6.1 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: POI reconciliation identification.

Datatype: "Max35Text" on page 929

3.4.2.5.6.2 OriginalPaymentTransaction <OrgnlPmtTx>

Presence: [0..1]

Definition: Original Transaction if any linked to this reversal.

OriginalPaymentTransaction <OrgnlPmtTx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetld>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

3.4.2.5.6.3 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Updated Customer order list after reversal.

CustomerOrder <CstmrOrdr> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrlid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefld>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

3.4.2.5.7 ReversedAmount <RvsdAmt>

Presence: [0..1]

Definition: Amount that have been reverse.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.5.8 Receipt <Rct>

Presence: [0..*]

Definition: Various receipts linked to the reversal.

Receipt <Rct> contains the following elements (see "PaymentReceipt2" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

3.4.2.6 BalanceInquiryResponse <BalNqryRspn>

Presence: [0..1]

Definition: Response data to a balance inquiry service request.

BalanceInquiryResponse <BalNqryRspn> contains the following **BalanceInquiryResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentAccount <PmtAcct>	[0..1]			143
	Currency <Ccy>	[0..1]	CodeSet	C1	143
	CurrentBalance <CurBal>	[0..1]	Amount		144
	PaymentAcquirerData <PmtAcqrrData>	[0..1]	±		144
	LoyaltyAccount <LltyAcct>	[0..1]	±		144
	StoredValueAccount <StordValAcct>	[0..*]			145
	AccountType <AcctTp>	[0..1]	CodeSet		145
	IdentificationType <IdTp>	[0..1]	CodeSet		146
	Identification <Id>	[0..1]	Text		146
	Brand <Brnd>	[0..1]	Text		146
	Provider <Prvdr>	[0..1]	Text		146
	OwnerName <OwnrNm>	[0..1]	Text		147
	ExpiryDate <XpryDt>	[0..1]	Text		147
	EntryMode <NtryMd>	[0..1]	CodeSet		147
	Currency <Ccy>	[0..1]	CodeSet	C1	147
	Balance <Bal>	[0..1]	Amount		148
	Receipt <Rct>	[0..*]	±		148

3.4.2.6.1 PaymentAccount <PmtAcct>

Presence: [0..1]

Definition: Payment account information.

PaymentAccount <PmtAcct> contains the following **PaymentAccount3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Currency <Ccy>	[0..1]	CodeSet	C1	143
	CurrentBalance <CurBal>	[0..1]	Amount		144
	PaymentAcquirerData <PmtAcqrrData>	[0..1]	±		144

3.4.2.6.1.1 Currency <Ccy>

Presence: [0..1]

Definition: Currency of a Payment Account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.6.1.2 CurrentBalance <CurBal>

Presence: [0..1]

Definition: Balance of a Payment Account

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.6.1.3 PaymentAcquirerData <PmtAcqrrData>

Presence: [0..1]

Definition: Detail of Acquirer.

PaymentAcquirerData <PmtAcqrrData> contains the following elements (see "Acquirer10" on page 590 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		590
	ParametersVersion <ParamsVrsn>	[0..1]	Text		590

3.4.2.6.2 LoyaltyAccount <LltyAcct>

Presence: [0..1]

Definition: Loyalty account information.

LoyaltyAccount <LltyAcct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LltyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

3.4.2.6.3 StoredValueAccount <StordValAcct>

Presence: [0..*]

Definition: Stored value account information.

StoredValueAccount <StordValAcct> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		145
	IdentificationType <IdTp>	[0..1]	CodeSet		146
	Identification <Id>	[0..1]	Text		146
	Brand <Brnd>	[0..1]	Text		146
	Provider <Prvdr>	[0..1]	Text		146
	OwnerName <OwnrNm>	[0..1]	Text		147
	ExpiryDate <XpryDt>	[0..1]	Text		147
	EntryMode <NtryMd>	[0..1]	CodeSet		147
	Currency <Ccy>	[0..1]	CodeSet	C1	147
	Balance <Bal>	[0..1]	Amount		148

3.4.2.6.3.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.

CodeName	Name	Definition
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

3.4.2.6.3.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

3.4.2.6.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

3.4.2.6.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

3.4.2.6.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

3.4.2.6.3.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

3.4.2.6.3.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

3.4.2.6.3.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

3.4.2.6.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.6.3.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.6.4 Receipt <Rct>

Presence: [0..*]

Definition: Receipt to print after a balance inquiry.

Receipt <Rct> contains the following elements (see "PaymentReceipt2" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

3.4.2.7 LoyaltyResponse <LltyRspn>

Presence: [0..1]

Definition: Response data to a loyalty service request.

LoyaltyResponse <LtyRspn> contains the following **LoyaltyResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		149
	POITransactionIdentification <POITxId>	[1..1]	±		149
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		150
	Result <Rslt>	[0..*]			150
	Account <Acct>	[1..1]	±		151
	Amount <Amt>	[0..1]			151
	Unit <Unit>	[0..1]	CodeSet		151
	Currency <Ccy>	[0..1]	CodeSet	C1	151
	Amount <Amt>	[1..1]	Amount		152
	ServerData <SvrData>	[0..1]			152
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		152
	ApprovalCode <ApprvlCd>	[0..1]	Text		152
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		152
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		153
	Rebates <Rbts>	[0..1]			153
	TotalRebate <TtlRbt>	[0..1]	Amount		153
	RebateLabel <RbtLabl>	[0..1]	Text		153
	SaleItemRebate <SaleitmRbt>	[0..*]			153
	SaleItem <Saleitm>	[1..1]	±		154
	RebateLabel <RbtLabl>	[0..1]	Text		154

3.4.2.7.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.7.2 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.7.3 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: "Max35Text" on page 929

3.4.2.7.4 Result <Rslt>

Presence: [0..*]

Definition: Data related to the result of a processed loyalty transaction.

Result <Rslt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		151
	Amount <Amt>	[0..1]			151
	Unit <Unit>	[0..1]	CodeSet		151
	Currency <Ccy>	[0..1]	CodeSet	C1	151
	Amount <Amt>	[1..1]	Amount		152
	ServerData <SvrData>	[0..1]			152
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		152
	ApprovalCode <ApprvICd>	[0..1]	Text		152
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		152
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		153
	Rebates <Rbts>	[0..1]			153
	TotalRebate <TtlRbt>	[0..1]	Amount		153
	RebateLabel <RbtLbl>	[0..1]	Text		153
	SaleItemRebate <SaleItmRbt>	[0..*]			153
	SaleItem <SaleItm>	[1..1]	±		154
	RebateLabel <RbtLbl>	[0..1]	Text		154

3.4.2.7.4.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <Ltyld>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <ldTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

3.4.2.7.4.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		151
	Currency <Ccy>	[0..1]	CodeSet	C1	151
	Amount <Amt>	[1..1]	Amount		152

3.4.2.7.4.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

3.4.2.7.4.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.7.4.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.7.4.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		152
	ApprovalCode <ApprvICd>	[0..1]	Text		152
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		152
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		153

3.4.2.7.4.3.1 LoyaltyServerIdentification <LltySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

3.4.2.7.4.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

3.4.2.7.4.3.3 LoyaltyTransactionIdentification <LltyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxld> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.7.4.3.4 HostReconciliationIdentification <HstRcncldId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

3.4.2.7.4.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		153
	RebateLabel <RbtLabl>	[0..1]	Text		153
	SaleItemRebate <SaleItmRbt>	[0..*]			153
	SaleItem <SaleItm>	[1..1]	±		154
	RebateLabel <RbtLabl>	[0..1]	Text		154

3.4.2.7.4.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.7.4.4.2 RebateLabel <RbtLabl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.7.4.4.3 SaleItemRebate <SaleItmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleItemRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		154
	RebateLabel <RbtLbl>	[0..1]	Text		154

3.4.2.7.4.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

3.4.2.7.4.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.8 StoredValueResponse <StordValRspn>

Presence: [0..1]

Definition: Response data to a Stored Value request.

StoredValueResponse <StordValRspn> contains the following **StoredValueResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POITransactionIdentification <POITxld>	[1..1]	±		155
	Result <Rslt>	[0..*]			156
	Provider <Prvdr>	[0..1]	Text		156
	TransactionType <TxTp>	[1..1]	CodeSet		156
	AccountIdentification <Acctld>	[0..1]			157
	AccountType <AcctTp>	[0..1]	CodeSet		157
	IdentificationType <ldTp>	[0..1]	CodeSet		158
	Identification <ld>	[0..1]	Text		158
	Brand <Brnd>	[0..1]	Text		159
	Provider <Prvdr>	[0..1]	Text		159
	OwnerName <OwnrNm>	[0..1]	Text		159
	ExpiryDate <XpryDt>	[0..1]	Text		159
	EntryMode <NtryMd>	[0..1]	CodeSet		159
	Currency <Ccy>	[0..1]	CodeSet	C1	160
	Balance <Bal>	[0..1]	Amount		160
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		160
	ProductCode <PdctCd>	[0..1]	Text		163
	EANUPC <EANUPC>	[0..1]	Text		163
	ItemAmount <ltmAmt>	[0..1]	Amount		163
	Currency <Ccy>	[0..1]	CodeSet	C1	163
	HostTransactionIdentification <HstTxld>	[0..1]	±		164
	Receipt <Rct>	[0..*]	±		164

3.4.2.8.1 POITransactionIdentification <POITxld>

Presence: [1..1]

Definition: Unique identification of a POI transaction.

POITransactionIdentification <POITxld> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.8.2 Result <Rslt>

Presence: [0..*]

Definition: Result of loading/reloading a stored value card.

Result <Rslt> contains the following **StoredValueData3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Provider <Prvdr>	[0..1]	Text		156
	TransactionType <TxTp>	[1..1]	CodeSet		156
	AccountIdentification <AcctId>	[0..1]			157
	AccountType <AcctTp>	[0..1]	CodeSet		157
	IdentificationType <IdTp>	[0..1]	CodeSet		158
	Identification <Id>	[0..1]	Text		158
	Brand <Brnd>	[0..1]	Text		159
	Provider <Prvdr>	[0..1]	Text		159
	OwnerName <OwnrNm>	[0..1]	Text		159
	ExpiryDate <XpryDt>	[0..1]	Text		159
	EntryMode <NtryMd>	[0..1]	CodeSet		159
	Currency <Ccy>	[0..1]	CodeSet	C1	160
	Balance <Bal>	[0..1]	Amount		160
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		160
	ProductCode <PdctCd>	[0..1]	Text		163
	EANUPC <EANUPC>	[0..1]	Text		163
	ItemAmount <ItmAmt>	[0..1]	Amount		163
	Currency <Ccy>	[0..1]	CodeSet	C1	163
	HostTransactionIdentification <HstTxId>	[0..1]	±		164

3.4.2.8.2.1 Provider <Prvdr>

Presence: [0..1]

Definition: Identification of the provider of the stored value account load/reload.

Datatype: "Max35Text" on page 929

3.4.2.8.2.2 TransactionType <TxTp>

Presence: [1..1]

Definition: Identification of operation to proceed on the stored value account or the stored value card.

Datatype: "StoredValueTransactionType2Code" on page 916

CodeName	Name	Definition
ACTV	Activate	Activate the account or the card.
DUPL	Duplicate	Duplicate the code or number provided by the loading or activation.
LOAD	Load	Load the account or the card with money.
RESV	Reserve	Reserve the account (e.g. get an activation code).
REVS	Reverse	Reverse an activation or loading.
ULOA	Unload	Unload the account.
CLOS	CloseAccount	Close the account.
DCTV	Deactivate	Deactivate the account or the card.
OPEN	OpenAccount	Open the account.

3.4.2.8.2.3 AccountIdentification <AcctId>

Presence: [0..1]

Definition: Identification of the stored value account or the stored value card.

AccountIdentification <AcctId> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		157
	IdentificationType <IdTp>	[0..1]	CodeSet		158
	Identification <Id>	[0..1]	Text		158
	Brand <Brnd>	[0..1]	Text		159
	Provider <Prvdr>	[0..1]	Text		159
	OwnerName <OwnrNm>	[0..1]	Text		159
	ExpiryDate <XpryDt>	[0..1]	Text		159
	EntryMode <NtryMd>	[0..1]	CodeSet		159
	Currency <Ccy>	[0..1]	CodeSet	C1	160
	Balance <Bal>	[0..1]	Amount		160

3.4.2.8.2.3.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.

CodeName	Name	Definition
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

3.4.2.8.2.3.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniquelIdentification	A Universal Unique Identification code is set for identification.

3.4.2.8.2.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

3.4.2.8.2.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

3.4.2.8.2.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

3.4.2.8.2.3.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

3.4.2.8.2.3.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

3.4.2.8.2.3.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).

CodeName	Name	Definition
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

3.4.2.8.2.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.8.2.3.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.8.2.4 OriginalPOITransaction <OrgnlPOITx>

Presence: [0..1]

Definition: Identification of a previous POI transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

3.4.2.8.2.5 ProductCode <PdctCd>

Presence: [0..1]

Definition: Product code of item purchased with the transaction.

Datatype: "Max35Text" on page 929

3.4.2.8.2.6 EANUPC <EANUPC>

Presence: [0..1]

Definition: Standard European Article Number Universal Product Code of item purchased with the transaction.

Datatype: "Max35NumericText" on page 929

3.4.2.8.2.7 ItemAmount <ItmAmt>

Presence: [0..1]

Definition: Total amount of the item line.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.8.2.8 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the monetary amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.8.2.9 HostTransactionIdentification <HstTxId>

Presence: [0..1]

Definition: Identification of the transaction by the host in charge of the stored value transaction.

HostTransactionIdentification <HstTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.8.3 Receipt <Rct>

Presence: [0..*]

Definition: Customer or Merchant payment receipt.

Receipt <Rct> contains the following elements (see "PaymentReceipt2" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

3.4.2.9 BatchResponse <BtchRspn>

Presence: [0..1]

Definition: Content of the Batch Response message.

BatchResponse <BtchRspn> contains the following **BatchResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PerformedTransaction <PrfrmdTx>	[0..*]			165
	Response <Rspn>	[1..1]	±		166
	SaleTransactionIdentification <SaleTxld>	[0..1]	±		167
	POITransactionIdentification <POITxld>	[0..1]	±		167
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		167
	PaymentResult <PmtRslt>	[0..1]	±		167
	LoyaltyResult <LtyRslt>	[0..*]			170
	Account <Acct>	[1..1]	±		171
	Amount <Amt>	[0..1]			172
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172
	ServerData <SvrData>	[0..1]			172
	LoyaltyServerIdentification <LtySvrld>	[0..1]	Text		173
	ApprovalCode <ApprvlCd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LtyTxld>	[0..1]	±		173
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		173
	Rebates <Rbts>	[0..1]			173
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLabl>	[0..1]	Text		174
	SaleItemRebate <SaleItmRbt>	[0..*]			174
	SaleItem <SaleItm>	[1..1]	±		174
	RebateLabel <RbtLabl>	[0..1]	Text		175
	ReversedAmount <RvsdAmt>	[0..1]	Amount		175

3.4.2.9.1 PerformedTransaction <PrfrmdTx>

Presence: [0..*]

Definition: Performed transaction content.

PerformedTransaction <PrfrmdTx> contains the following **PerformedTransaction2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	±		166
	SaleTransactionIdentification <SaleTxId>	[0..1]	±		167
	POITransactionIdentification <POITxId>	[0..1]	±		167
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		167
	PaymentResult <PmtRslt>	[0..1]	±		167
	LoyaltyResult <LltyRslt>	[0..*]			170
	Account <Acct>	[1..1]	±		171
	Amount <Amt>	[0..1]			172
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172
	ServerData <SvrData>	[0..1]			172
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		173
	ApprovalCode <ApprvlCd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		173
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		173
	Rebates <Rbts>	[0..1]			173
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLabl>	[0..1]	Text		174
	SaleItemRebate <SaleitmRbt>	[0..*]			174
	SaleItem <Saleitm>	[1..1]	±		174
	RebateLabel <RbtLabl>	[0..1]	Text		175
	ReversedAmount <RvsdAmt>	[0..1]	Amount		175

3.4.2.9.1.1 Response <Rspn>

Presence: [1..1]

Definition: Response for this performed transaction.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

3.4.2.9.1.2 SaleTransactionIdentification <SaleTxId>

Presence: [0..1]

Definition: Unique identification of a sale transaction.

SaleTransactionIdentification <SaleTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.9.1.3 POITransactionIdentification <POITxId>

Presence: [0..1]

Definition: Unique identification of a POI transaction.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.9.1.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Identification of the POI reconciliation period.

Datatype: "Max35Text" on page 929

3.4.2.9.1.5 PaymentResult <PmtRslt>

Presence: [0..1]

Definition: Data related to the result of a processed payment transaction.

PaymentResult <PmtRslt> contains the following elements (see "RetailerPaymentResult2" on page 650 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		653
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		654
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		654
	RequestedTransaction <ReqdTxx>	[0..1]	±		655
	TransactionResponse <TxRspn>	[0..1]			658
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrtctdBal>	[0..1]	±		669
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgtAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <DclrtDtls>	[0..*]	±		677
	CustomerOrder <CstmrOrd>	[0..*]	±		677
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			678
	ImageFormat <ImgFrmt>	[1..1]	Text		678
	ImageData <ImgData>	[0..1]	Binary		678
	ImageReference <ImgRef>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679
	ProtectedCapturedSignature <PrtctdCaptrdSgntr>	[0..1]	±		679
	MerchantOverrideFlag <MrchntOvrrdFlg>	[0..1]	Indicator		679
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	679
	OnlineFlag <OnlnFlg>	[0..1]	Indicator		679

3.4.2.9.1.6 LoyaltyResult <LtyRslt>

Presence: [0..*]

Definition: Data related to the result of a processed Loyalty transaction.

LoyaltyResult <LtyRslt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		171
	Amount <Amt>	[0..1]			172
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172
	ServerData <SvrData>	[0..1]			172
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		173
	ApprovalCode <ApprvlCd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		173
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		173
	Rebates <Rbts>	[0..1]			173
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLbl>	[0..1]	Text		174
	SaleItemRebate <SaleItmRbt>	[0..*]			174
	SaleItem <SaleItm>	[1..1]	±		174
	RebateLabel <RbtLbl>	[0..1]	Text		175

3.4.2.9.1.6.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

3.4.2.9.1.6.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		172
	Currency <Ccy>	[0..1]	CodeSet	C1	172
	Amount <Amt>	[1..1]	Amount		172

3.4.2.9.1.6.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

3.4.2.9.1.6.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

3.4.2.9.1.6.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.9.1.6.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		173
	ApprovalCode <ApprvICd>	[0..1]	Text		173
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		173
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		173

3.4.2.9.1.6.3.1 LoyaltyServerIdentification <LtySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

3.4.2.9.1.6.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

3.4.2.9.1.6.3.3 LoyaltyTransactionIdentification <LtyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.9.1.6.3.4 HostReconciliationIdentification <HstRcncltnId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

3.4.2.9.1.6.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		174
	RebateLabel <RbtLbl>	[0..1]	Text		174
	SaleItemRebate <SaleitmRbt>	[0..*]			174
	SaleItem <Saleitm>	[1..1]	±		174
	RebateLabel <RbtLbl>	[0..1]	Text		175

3.4.2.9.1.6.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.9.1.6.4.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.9.1.6.4.3 SaleItemRebate <SaleitmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleitmRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		174
	RebateLabel <RbtLbl>	[0..1]	Text		175

3.4.2.9.1.6.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

3.4.2.9.1.6.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

3.4.2.9.1.7 ReversedAmount <RvsdAmt>

Presence: [0..1]

Definition: Amount of the payment or loyalty to reverse.

Datatype: "ImpliedCurrencyAndAmount" on page 860

3.4.2.10 CardAcquisitionResponse <CardAcqstnRspn>

Presence: [0..1]

Definition: Content of the Card Acquisition Response message.

CardAcquisitionResponse <CardAcqstnRspn> contains the following **CardAcquisitionResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POITransactionIdentification <POITxld>	[1..1]	±		176
	PaymentBrand <PmtBrnd>	[0..*]	Text		176
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	176
	LoyaltyAccount <LltyAcct>	[0..*]	±		176
	CustomerOrder <CstmrOrdrr>	[0..*]	±		177

3.4.2.10.1 POITransactionIdentification <POITxld>

Presence: [1..1]

Definition: Unique identification of a POI transaction.

POITransactionIdentification <POITxld> contains the following elements (see "[TransactionIdentifier1](#)" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

3.4.2.10.2 PaymentBrand <PmtBrnd>

Presence: [0..*]

Definition: Type of payment card.

Datatype: "[Max35Text](#)" on page 929

3.4.2.10.3 CustomerLanguage <CstmrLang>

Presence: [0..1]

Definition: Language used to display messages to the customer.

Impacted by: C6 "[ValidationByTable](#)"

Datatype: "[LanguageCode](#)" on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

3.4.2.10.4 LoyaltyAccount <LltyAcct>

Presence: [0..*]

Definition: Loyalty account information.

LoyaltyAccount <LltyAcct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <Lltyld>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <ldTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

3.4.2.10.5 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrdr> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrld>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefld>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

3.4.2.11 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

3.4.2.12 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

3.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType21" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

4 casp.003.001.02

SaleToPOIRconciliationRequestV02

4.1 MessageDefinition Functionality

The SaleToPOIRconciliationRequest message is sent by a sale system to request for reconciliation between sale and POI systems.

Outline

The SaleToPOIRconciliationRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Set of characteristics related to the transfer of the request.
- B. ReconciliationRequest
 - Information related to the reconciliation request.
- C. 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
	Message root <Document> <SaleToPOIRcncltnReq>	[1..1]			
	Header <Hdr>	[1..1]			181
	MessageFunction <MsgFctn>	[1..1]	CodeSet		181
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		182
	ExchangeIdentification <XchgId>	[1..1]	Text		182
	CreationDateTime <CreDtTm>	[1..1]	DateTime		182
	InitiatingParty <InitgPty>	[1..1]	±		183
	RecipientParty <RcptPty>	[0..1]	±		183
	Traceability <Tracblt>	[0..*]	±		184
	ReconciliationRequest <RcncltnReq>	[1..1]			184
	Environment <Envt>	[1..1]	±		185
	Context <Cntxt>	[1..1]	±		191
	ReconciliationRequestData <RcncltnReqData>	[1..1]			194
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		194
	AcquirerIdentification <AcqrId>	[0..1]	Text		194
	POIRconciliationIdentification <POIRcncltnId>	[0..1]	Text		194
	SupplementaryData <SplmtryData>	[0..*]	±	C5	195
	SecurityTrailer <SctyTrlr>	[0..1]	±		195

4.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

4.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

4.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		181
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		182
	ExchangeIdentification <XchgId>	[1..1]	Text		182
	CreationDateTime <CreDtTm>	[1..1]	DateTime		182
	InitiatingParty <InitgPty>	[1..1]	±		183
	RecipientParty <RcptPty>	[0..1]	±		183
	Traceability <Tracblt>	[0..*]	±		184

4.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.

CodeName	Name	Definition
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

4.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

4.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

4.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

4.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

4.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

4.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

4.4.2 ReconciliationRequest <RcncltnReq>

Presence: [1..1]

Definition: Information related to the reconciliation request.

ReconciliationRequest <RcncltnReq> contains the following **ReconciliationRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		185
	Context <Cntxt>	[1..1]	±		191
	ReconciliationRequestData <RcncltnReqData>	[1..1]			194
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		194
	AcquirerIdentification <Acqrrld>	[0..1]	Text		194
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		194
	SupplementaryData <SplmtryData>	[0..*]	±	C5	195

4.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

4.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

4.4.2.3 ReconciliationRequestData <RcncltnReqData>

Presence: [1..1]

Definition: Content of the Reconciliation Request message.

ReconciliationRequestData <RcncltnReqData> contains the following **ReconciliationRequestData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		194
	AcquirerIdentification <Acqrrld>	[0..1]	Text		194
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		194

4.4.2.3.1 ReconciliationType <RcncltnTp>

Presence: [1..1]

Definition: Type of Reconciliation requested by the Sale to the POI.

Datatype: "ReconciliationType1Code" on page 903

CodeName	Name	Definition
AREC	AcquirerReconciliation	Reconciliation between the POI and one or several Acquirers only. There is no reconciliation between the Sale System and the POI System.
ASYN	AcquirerSynchronisation	Reconciliation and closure of the current period, with synchronisation of the reconciliation between the POI and Acquirers.
PREC	PreviousReconciliation	Request result of a previous reconciliation.
SREC	SaleReconciliation	Reconciliation with closure of the current period, without any Acquirers synchronisation.

4.4.2.3.2 AcquirerIdentification <Acqrrld>

Presence: [0..1]

Definition: Identification of the Acquirer.

Datatype: "Max35Text" on page 929

4.4.2.3.3 POIReconciliationIdentification <POIRcncltnld>

Presence: [0..1]

Definition: Identification of the reconciliation period between Sale and POI.

Datatype: "Max35Text" on page 929

4.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

4.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType21" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

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SaleToPOIRconciliationResponseV02

5.1 MessageDefinition Functionality

The SaleToPOIRconciliationResponse message is sent by a POI to provide the result of reconciliation process between sale and POI systems.

Outline

The SaleToPOIRconciliationResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Set of characteristics related to the transfer of the request.
- B. ReconciliationResponse
 - Information related to the response of a reconciliation request.
- C. 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> <SaleToPOIRcncltnRspn>	[1..1]			
	Header <Hdr>	[1..1]			199
	MessageFunction <MsgFctn>	[1..1]	CodeSet		199
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		200
	ExchangeIdentification <XchgId>	[1..1]	Text		200
	CreationDateTime <CreDtTm>	[1..1]	DateTime		201
	InitiatingParty <InitgPty>	[1..1]	±		201
	RecipientParty <RcptPty>	[0..1]	±		201
	Traceability <Tracblt>	[0..*]	±		202
	ReconciliationResponse <RcncltnRspn>	[1..1]			202
	Environment <Envt>	[1..1]	±		204
	Context <Cntxt>	[1..1]	±		210
	ReconciliationResponseData <RcncltnRspnData>	[1..1]			213
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		215
	POIRconciliationIdentification <POIRcncltnId>	[0..1]	Text		215
	TransactionTotals <TxTtls>	[0..*]			215
	PaymentInstrumentType <PmtInstrmTp>	[1..1]	CodeSet		217
	AcquirerIdentification <AcqrrId>	[0..1]	Text		217
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		217
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		217
	Brand <Brnd>	[0..1]	Text		217
	POIIdentification <POIId>	[0..1]	Text		217
	SaleIdentification <SaleId>	[0..1]	Text		218
	CashierIdentification <CshrlId>	[0..1]	Text		218
	ShiftNumber <ShftNb>	[0..1]	Text		218
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			218
	CommonName <CmonNm>	[1..1]	Text		218
	Address <Adr>	[0..1]	Text		218
	CountryCode <CtryCd>	[1..1]	CodeSet		218
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		219

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	RegisteredIdentifier <RegIdr>	[1..1]	Text		219
	TransactionTotal <TxTtl>	[1..1]			219
	POIGroupIdentification <POIGrpld>	[0..1]	Text		219
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		219
	Currency <Ccy>	[0..1]	CodeSet	C1	219
	Type <Tp>	[1..1]	CodeSet		220
	TotalNumber <TtlNb>	[1..1]	Quantity		220
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		220
	DetailedAmount <DtldAmt>	[0..1]	±		220
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			221
	POIGroupIdentification <POIGrpld>	[0..1]	Text		221
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		221
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		222
	Currency <Ccy>	[0..1]	CodeSet	C1	222
	TransactionType <TxTp>	[1..1]	CodeSet		222
	TotalNumber <TtlNb>	[1..1]	Quantity		222
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		223
	DetailedAmount <DtldAmt>	[0..1]	±		223
	Response <Rspn>	[1..1]	±		223
	SupplementaryData <SplmtryData>	[0..*]	±	C5	223
	SecurityTrailer <SctyTrlr>	[0..1]	±		224

5.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

5.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

5.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		199
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		200
	ExchangeIdentification <XchgId>	[1..1]	Text		200
	CreationDateTime <CreDtTm>	[1..1]	DateTime		201
	InitiatingParty <InitgPty>	[1..1]	±		201
	RecipientParty <RcptPty>	[0..1]	±		201
	Traceability <Tracblt>	[0..*]	±		202

5.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or

CodeName	Name	Definition
		software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

5.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

5.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

5.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

5.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

5.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

5.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

5.4.2 ReconciliationResponse <RcncltnRspn>

Presence: [1..1]

Definition: Information related to the response of a reconciliation request.

ReconciliationResponse <RcncltnRspn> contains the following **ReconciliationResponse4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envnt>	[1..1]	±		204
	Context <Cntxt>	[1..1]	±		210
	ReconciliationResponseData <RcncltnRspnData>	[1..1]			213
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		215
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		215
	TransactionTotals <TxTtls>	[0..*]			215
	PaymentInstrumentType <PmtlnstrmTp>	[1..1]	CodeSet		217
	AcquirerIdentification <Acqrrld>	[0..1]	Text		217
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		217
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		217
	Brand <Brnd>	[0..1]	Text		217
	POIIdentification <POIId>	[0..1]	Text		217
	SaleIdentification <SaleId>	[0..1]	Text		218
	CashierIdentification <Cshrlld>	[0..1]	Text		218
	ShiftNumber <ShftNb>	[0..1]	Text		218
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			218
	CommonName <CmonNm>	[1..1]	Text		218
	Address <Adr>	[0..1]	Text		218
	CountryCode <CtryCd>	[1..1]	CodeSet		218
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		219
	RegisteredIdentifier <RegldId>	[1..1]	Text		219
	TransactionTotal <TxTtl>	[1..1]			219
	POIGroupIdentification <POIGrpId>	[0..1]	Text		219
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		219
	Currency <Ccy>	[0..1]	CodeSet	C1	219
	Type <Tp>	[1..1]	CodeSet		220
	TotalNumber <TtlNb>	[1..1]	Quantity		220
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		220
	DetailedAmount <DtldAmt>	[0..1]	±		220
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			221
	POIGroupIdentification <POIGrpId>	[0..1]	Text		221

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyUnit <LtyUnit>	[0..1]	CodeSet		221
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		222
	Currency <Ccy>	[0..1]	CodeSet	C1	222
	TransactionType <TxTp>	[1..1]	CodeSet		222
	TotalNumber <TtlNb>	[1..1]	Quantity		222
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		223
	DetailedAmount <DtldAmt>	[0..1]	±		223
	Response <Rspn>	[1..1]	±		223
	SupplementaryData <SplmtryData>	[0..*]	±	C5	223

5.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

5.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncntnId>	[0..1]	Text		770
	CashierIdentification <CshrlId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

5.4.2.3 ReconciliationResponseData <RcncltnRspnData>

Presence: [1..1]

Definition: Content of the Reconciliation Response message.

ReconciliationResponseData <RcncltnRspnData> contains the following
ReconciliationResponseData1 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationType <RcncltnTp>	[1..1]	CodeSet		215
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		215
	TransactionTotals <TxTtls>	[0..*]			215
	PaymentInstrumentType <PmtlnstrmTp>	[1..1]	CodeSet		217
	AcquirerIdentification <Acqrrld>	[0..1]	Text		217
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		217
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		217
	Brand <Brnd>	[0..1]	Text		217
	POIIdentification <POIId>	[0..1]	Text		217
	SaleIdentification <SaleId>	[0..1]	Text		218
	CashierIdentification <Cshrlld>	[0..1]	Text		218
	ShiftNumber <ShftNb>	[0..1]	Text		218
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			218
	CommonName <CmonNm>	[1..1]	Text		218
	Address <Adr>	[0..1]	Text		218
	CountryCode <CtryCd>	[1..1]	CodeSet		218
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		219
	RegisteredIdentifier <Regldr>	[1..1]	Text		219
	TransactionTotal <TxTtl>	[1..1]			219
	POIGroupIdentification <POIGrpId>	[0..1]	Text		219
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		219
	Currency <Ccy>	[0..1]	CodeSet	C1	219
	Type <Tp>	[1..1]	CodeSet		220
	TotalNumber <TtlNb>	[1..1]	Quantity		220
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		220
	DetailedAmount <DtldAmt>	[0..1]	±		220
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			221
	POIGroupIdentification <POIGrpId>	[0..1]	Text		221
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		221
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		222

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Currency <Ccy>	[0..1]	CodeSet	C1	222
	TransactionType <TxTp>	[1..1]	CodeSet		222
	TotalNumber <TtlNb>	[1..1]	Quantity		222
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		223
	DetailedAmount <DtldAmt>	[0..1]	±		223

5.4.2.3.1 ReconciliationType <RcncltnTp>

Presence: [1..1]

Definition: Type of Reconciliation requested by the Sale to the POI.

Datatype: "ReconciliationType1Code" on page 903

CodeName	Name	Definition
AREC	AcquirerReconciliation	Reconciliation between the POI and one or several Acquirers only. There is no reconciliation between the Sale System and the POI System.
ASYN	AcquirerSynchronisation	Reconciliation and closure of the current period, with synchronisation of the reconciliation between the POI and Acquirers.
PREC	PreviousReconciliation	Request result of a previous reconciliation.
SREC	SaleReconciliation	Reconciliation with closure of the current period, without any Acquirers synchronisation.

5.4.2.3.2 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Identification of the reconciliation period between Sale and POI.

Datatype: "Max35Text" on page 929

5.4.2.3.3 TransactionTotals <TxTtls>

Presence: [0..*]

Definition: Result of the Sale to POI Reconciliation processing.

TransactionTotals <TxTtl> contains the following **TransactionTotalsSet1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentInstrumentType <PmtInstrmTp>	[1..1]	CodeSet		217
	AcquirerIdentification <Acqrrld>	[0..1]	Text		217
	ReconciliationIdentification <Rcncltnld>	[0..1]	Text		217
	SaleReconciliationIdentification <SaleRcncltnld>	[0..1]	Text		217
	Brand <Brnd>	[0..1]	Text		217
	POIIdentification <POIld>	[0..1]	Text		217
	SaleIdentification <Saleld>	[0..1]	Text		218
	CashierIdentification <Cshrlld>	[0..1]	Text		218
	ShiftNumber <ShftNb>	[0..1]	Text		218
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			218
	CommonName <CmonNm>	[1..1]	Text		218
	Address <Adr>	[0..1]	Text		218
	CountryCode <CtryCd>	[1..1]	CodeSet		218
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		219
	RegisteredIdentifier <Regldr>	[1..1]	Text		219
	TransactionTotal <TxTtl>	[1..1]			219
	POIGroupIdentification <POIGrpld>	[0..1]	Text		219
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		219
	Currency <Ccy>	[0..1]	CodeSet	C1	219
	Type <Tp>	[1..1]	CodeSet		220
	TotalNumber <TtlNb>	[1..1]	Quantity		220
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		220
	DetailedAmount <DtldAmt>	[0..1]	±		220
	LoyaltyTransactionTotal <LtyTxTtl>	[0..*]			221
	POIGroupIdentification <POIGrpld>	[0..1]	Text		221
	LoyaltyUnit <LtyUnit>	[0..1]	CodeSet		221
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		222
	Currency <Ccy>	[0..1]	CodeSet	C1	222
	TransactionType <TxTp>	[1..1]	CodeSet		222
	TotalNumber <TtlNb>	[1..1]	Quantity		222
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		223

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DetailedAmount <DtldAmt>	[0..1]	±		223

5.4.2.3.3.1 PaymentInstrumentType <PmtInstrmTp>

Presence: [1..1]

Definition: Type of payment instrument.

Datatype: "PaymentInstrumentType1Code" on page 899

CodeName	Name	Definition
CARD	Card	Payment card (credit or debit).
CASH	Cash	Cash managed by a cash handling system.
CHCK	Check	Paper check.
LOYT	LoyaltyAccount	Account using loyalty processing.
SVAC	StoredValueAccount	Account accessed by a stored value instrument such as a card or a certificate.

5.4.2.3.3.2 AcquirerIdentification <Acqrrld>

Presence: [0..1]

Definition: Identification of an Acquirer.

Datatype: "Max35Text" on page 929

5.4.2.3.3.3 ReconciliationIdentification <Rcncltnld>

Presence: [0..1]

Definition: Identifier of a host reconciliation period: acquirer for a payment or server for loyalty.

Datatype: "Max35Text" on page 929

5.4.2.3.3.4 SaleReconciliationIdentification <SaleRcncltnld>

Presence: [0..1]

Definition: Identifier of a reconciliation period on the sale system.

Datatype: "Max35Text" on page 929

5.4.2.3.3.5 Brand <Brnd>

Presence: [0..1]

Definition: Brand of payment card or loyalty system.

Datatype: "Max35Text" on page 929

5.4.2.3.3.6 POIIdentification <POIld>

Presence: [0..1]

Definition: Identifier of the POI system performing a reconciliation.

Datatype: "Max35Text" on page 929

5.4.2.3.3.7 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the sale terminal (electronic cash register or point of sale terminal) or the sale system.

Datatype: "Max35Text" on page 929

5.4.2.3.3.8 CashierIdentification <CshrlId>

Presence: [0..1]

Definition: Identification of the cashier who carried out the transactions.

Datatype: "Max35Text" on page 929

5.4.2.3.3.9 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Identifies the shift of the cashier.

Datatype: "Max2NumericText" on page 928

5.4.2.3.3.10 SponsoredMerchant <SpnsrdMrchnt>

Presence: [0..*]

Definition: Merchant using the payment services of a payment facilitator, acting as a card acceptor.

SponsoredMerchant <SpnsrdMrchnt> contains the following **Organisation26** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CommonName <CmonNm>	[1..1]	Text		218
	Address <Adr>	[0..1]	Text		218
	CountryCode <CtryCd>	[1..1]	CodeSet		218
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		219
	RegisteredIdentifier <RegIdIdr>	[1..1]	Text		219

5.4.2.3.3.10.1 CommonName <CmonNm>

Presence: [1..1]

Definition: Name of the merchant.

Datatype: "Max70Text" on page 930

5.4.2.3.3.10.2 Address <Adr>

Presence: [0..1]

Definition: Location of the merchant.

Datatype: "Max140Text" on page 927

5.4.2.3.3.10.3 CountryCode <CtryCd>

Presence: [1..1]

Definition: Country of the merchant.

Datatype: "ISO3NumericCountryCode" on page 891

5.4.2.3.3.10.4 MerchantCategoryCode <MrchntCtgyCd>

Presence: [1..1]

Definition: Category code conform to ISO 18245, related to the type of services or goods the merchant provides for the transaction.

Datatype: "Min3Max4Text" on page 931

5.4.2.3.3.10.5 RegisteredIdentifier <Regldr>

Presence: [1..1]

Definition: Identifier of the sponsored merchant assigned by the payment facilitator of their acquirer.

Datatype: "Max35Text" on page 929

5.4.2.3.3.11 TransactionTotal <TxTtl>

Presence: [1..1]

Definition: Payment Transaction totals during the reconciliation period, for a certain type of transaction.

TransactionTotal <TxTtl> contains the following **TransactionTotals8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIGroupIdentification <POIGrpId>	[0..1]	Text		219
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		219
	Currency <Ccy>	[0..1]	CodeSet	C1	219
	Type <Tp>	[1..1]	CodeSet		220
	TotalNumber <TtlNb>	[1..1]	Quantity		220
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		220
	DetailedAmount <DtldAmt>	[0..1]	±		220

5.4.2.3.3.11.1 POIGroupIdentification <POIGrpId>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 929

5.4.2.3.3.11.2 CardProductProfile <CardPdctPrfl>

Presence: [0..1]

Definition: Category of cards related the acceptance processing rules defined by the acquirer.

Datatype: "Max35Text" on page 929

5.4.2.3.3.11.3 Currency <Ccy>

Presence: [0..1]

Definition: Currency associated with the transaction totals.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

5.4.2.3.3.11.4 Type <Tp>

Presence: [1..1]

Definition: Identification of the type of transaction.

Datatype: "TypeTransactionTotals3Code" on page 920

CodeName	Name	Definition
CRDT	Credit	Credit transactions (refund, account, cash service, as defined in the transaction service type).
CRDR	CreditReverse	Reversal of credit transactions (cancellation).
DEBT	Debit	Debit transactions on the cardholder account.
DBTR	DebitReverse	Reversal of debit transactions (cancellation).
DECL	Declined	Declined transactions.
FAIL	Failed	Failed transactions.
RESV	Reservation	Outstanding Reservation transactions.

5.4.2.3.3.11.5 TotalNumber <TtlNb>

Presence: [1..1]

Definition: Total number of transactions during a reconciliation period.

Datatype: "Number" on page 926

5.4.2.3.3.11.6 CumulativeAmount <CmltvAmt>

Presence: [1..1]

Definition: Total amount of a collection of transactions.

Datatype: "ImpliedCurrencyAndAmount" on page 860

5.4.2.3.3.11.7 DetailedAmount <DtldAmt>

Presence: [0..1]

Definition: Detailed amounts associated with the total amount of transaction.

DetailedAmount <DtldAmt> contains the following elements (see "DetailedAmount15" on page 593 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

5.4.2.3.3.12 LoyaltyTransactionTotal <LltyTxTtl>

Presence: [0..*]

Definition: Loyalty Transaction totals during the reconciliation period, for a certain type of transaction.

LoyaltyTransactionTotal <LltyTxTtl> contains the following **LoyaltyTransactionTotals1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIGroupldentification <POIGrpld>	[0..1]	Text		221
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		221
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		222
	Currency <Ccy>	[0..1]	CodeSet	C1	222
	TransactionType <TxTp>	[1..1]	CodeSet		222
	TotalNumber <TtlNb>	[1..1]	Quantity		222
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		223
	DetailedAmount <DtldAmt>	[0..1]	±		223

5.4.2.3.3.12.1 POIGroupldentification <POIGrpld>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 929

5.4.2.3.3.12.2 LoyaltyUnit <LltyUnit>

Presence: [0..1]

Definition: Unit of the amount, expressed in point or in a monetary value and a currency.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

5.4.2.3.3.12.3 CardProductProfile <CardPdctPrfl>

Presence: [0..1]

Definition: Cards category related to the acceptance processing rules defined by the Loyalty provider.

Datatype: "Max35Text" on page 929

5.4.2.3.3.12.4 Currency <Ccy>

Presence: [0..1]

Definition: Currency associated with the transaction totals.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

5.4.2.3.3.12.5 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of Loyalty transaction for Report.

Datatype: "LoyaltyTypeTransactionTotals1Code" on page 894

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
AWRR	ReverseAward	Refund of a loyalty award transaction.
REBR	ReverseRebate	Refund of a loyalty rebate transaction.
REDR	ReverseRedemption	Refund of a loyalty redemption transaction.

5.4.2.3.3.12.6 TotalNumber <TtlNb>

Presence: [1..1]

Definition: Total number of transactions during a reconciliation period.

Datatype: "Number" on page 926

5.4.2.3.3.12.7 CumulativeAmount <CmltvAmt>

Presence: [1..1]

Definition: Total amount of a collection of transactions.

Datatype: "ImpliedCurrencyAndAmount" on page 860

5.4.2.3.3.12.8 DetailedAmount <DtldAmt>

Presence: [0..1]

Definition: Detailed amounts associated with the total amount of transactions.

DetailedAmount <DtldAmt> contains the following elements (see "DetailedAmount15" on page 593 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

5.4.2.4 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

5.4.2.5 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "[SupplementaryData1](#)" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

5.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

6 casp.005.001.02

SaleToPOISessionManagementRequestV02

6.1 MessageDefinition Functionality

The SaleToPOISessionManagementRequest message is sent by a sale system to select an administrative service related to session management.

Outline

The SaleToPOISessionManagementRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Set of characteristics related to the transfer of the request.
- B. SessionManagementRequest
 - Information related to the session management request.
- C. SecurityTrailer
 - Trailer of the message containing a MAC or a digital signature.

6.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOISsnMgmtReq>	[1..1]			
	Header <Hdr>	[1..1]			228
	MessageFunction <MsgFctn>	[1..1]	CodeSet		228
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		229
	ExchangeIdentification <XchgId>	[1..1]	Text		229
	CreationDateTime <CreDtTm>	[1..1]	DateTime		229
	InitiatingParty <InitgPty>	[1..1]	±		229
	RecipientParty <RcptPty>	[0..1]	±		230
	Traceability <Tracblt>	[0..*]	±		231
	SessionManagementRequest <SsnMgmtReq>	[1..1]			231
	Environment <Envnt>	[1..1]	±		232
	Context <Cntxt>	[1..1]	±		239
	ServiceContent <SvcCntt>	[1..1]	CodeSet		242
	LoginRequest <LgnReq>	[0..1]			242
	LoginDateTime <LgnDtTm>	[1..1]	DateTime		243
	SaleSoftware <SaleSftwr>	[1..*]	±		243
	SaleTerminalData <SaleTermnlData>	[0..1]			245
	TerminalEnvironment <TermnlEnvnt>	[0..1]	CodeSet		245
	SaleReconciliationIdentification <SaleRcncnclnId>	[0..1]	Text		246
	TrainingModeFlag <TrngMdFlg>	[0..1]	Indicator		246
	CashierIdentification <CshrId>	[0..1]	Text		246
	CashierLanguage <CshrLang>	[1..1]	CodeSet	C6	246
	ShiftNumber <ShftNb>	[0..1]	Text		246
	TokenRequestedType <TknReqdTp>	[0..1]	CodeSet		247
	CustomerOrderRequest <CstmrOrdrrReq>	[0..1]	CodeSet		247
	POIIdentification <POIId>	[0..1]			247
	ItemNumber <ItmNb>	[0..1]	Text		247
	ProviderIdentification <PrvdrId>	[0..1]	Text		248
	Identification <Id>	[0..1]	Text		248
	SerialNumber <SrlNb>	[0..1]	Text		248

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalsGroupIdentification <TtlsGrpld>	[0..1]	Text		248
	OutputDisplay <OutptDisp>	[0..1]	±		248
	LogoutRequest <LgtReq>	[0..1]			249
	MaintenanceAllowed <MntncAllwd>	[0..1]	Indicator		249
	DiagnosisRequest <DgnssReq>	[0..1]			249
	HostDiagnosisFlag <HstDgnssFlg>	[0..1]	Indicator		250
	AcquirerIdentification <Acqrrld>	[0..*]	Text		250
	SupplementaryData <SplmtryData>	[0..*]	±	C5	250
	SecurityTrailer <SctyTrlr>	[0..1]	±		250

6.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

6.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

6.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		228
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		229
	ExchangeIdentification <XchgId>	[1..1]	Text		229
	CreationDateTime <CreDtTm>	[1..1]	DateTime		229
	InitiatingParty <InitgPty>	[1..1]	±		229
	RecipientParty <RcptPty>	[0..1]	±		230
	Traceability <Tracblt>	[0..*]	±		231

6.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.

CodeName	Name	Definition
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

6.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

6.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

6.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

6.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

6.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

6.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

6.4.2 SessionManagementRequest <SsnMgmtReq>

Presence: [1..1]

Definition: Information related to the session management request.

SessionManagementRequest <SsnMgmtReq> contains the following
SessionManagementRequest3 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		232
	Context <Cntxt>	[1..1]	±		239
	ServiceContent <SvcCntt>	[1..1]	CodeSet		242
	LoginRequest <LgnReq>	[0..1]			242
	LoginDateTime <LgnDtTm>	[1..1]	DateTime		243
	SaleSoftware <SaleSftwr>	[1..*]	±		243
	SaleTerminalData <SaleTermnlData>	[0..1]			245
	TerminalEnvironment <TermnlEnvt>	[0..1]	CodeSet		245
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		246
	TrainingModeFlag <TrngMdFlg>	[0..1]	Indicator		246
	CashierIdentification <CshrlId>	[0..1]	Text		246
	CashierLanguage <CshrLang>	[1..1]	CodeSet	C6	246
	ShiftNumber <ShftNb>	[0..1]	Text		246
	TokenRequestedType <TknReqdTp>	[0..1]	CodeSet		247
	CustomerOrderRequest <CstmrOrdRReq>	[0..1]	CodeSet		247
	POIIdentification <POIId>	[0..1]			247
	ItemNumber <ItmNb>	[0..1]	Text		247
	ProviderIdentification <PrvdrId>	[0..1]	Text		248
	Identification <Id>	[0..1]	Text		248
	SerialNumber <SrlNb>	[0..1]	Text		248
	TotalsGroupIdentification <TtlsGrpId>	[0..1]	Text		248
	OutputDisplay <OutptDisp>	[0..1]	±		248
	LogoutRequest <LgtReq>	[0..1]			249
	MaintenanceAllowed <MntncAllwd>	[0..1]	Indicator		249
	DiagnosisRequest <DgnssReq>	[0..1]			249
	HostDiagnosisFlag <HstDgnssFlg>	[0..1]	Indicator		250
	AcquirerIdentification <AcqrrId>	[0..*]	Text		250
	SupplementaryData <SplmtryData>	[0..*]	±	C5	250

6.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

6.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

6.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService4Code" on page 911

CodeName	Name	Definition
SMIQ	AdministrativeSessionManagementLoginRequest	The Sale System requests a login to the POI System.
SMOQ	AdministrativeSessionManagementLogoutRequest	The Sale System requests a logout to the POI System.
SMDQ	AdministrativeSessionManagementDiagnosisRequest	The Sale System requests a session diagnosis to the POI System.

6.4.2.4 LoginRequest <LgnReq>

Presence: [0..1]

Definition: Content of the Login Request message.

LoginRequest <LgnReq> contains the following **LoginRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoginDateTime <LgnDtTm>	[1..1]	DateTime		243
	SaleSoftware <SaleSftwr>	[1..*]	±		243
	SaleTerminalData <SaleTermnlData>	[0..1]			245
	TerminalEnvironment <TermnlEnvnt>	[0..1]	CodeSet		245
	SaleReconciliationIdentification <SaleRcnccltnId>	[0..1]	Text		246
	TrainingModeFlag <TrngMdFlg>	[0..1]	Indicator		246
	CashierIdentification <CshrId>	[0..1]	Text		246
	CashierLanguage <CshrLang>	[1..1]	CodeSet	C6	246
	ShiftNumber <ShftNb>	[0..1]	Text		246
	TokenRequestedType <TknReqdTp>	[0..1]	CodeSet		247
	CustomerOrderRequest <CstmrOrdrrReq>	[0..1]	CodeSet		247
	POIIdentification <POIId>	[0..1]			247
	ItemNumber <ItmNb>	[0..1]	Text		247
	ProviderIdentification <PrvdrId>	[0..1]	Text		248
	Identification <Id>	[0..1]	Text		248
	SerialNumber <SrlNb>	[0..1]	Text		248
	TotalsGroupIdentification <TtlsGrpId>	[0..1]	Text		248
	OutputDisplay <OutptDisp>	[0..1]	±		248

6.4.2.4.1 LoginDateTime <LgnDtTm>

Presence: [1..1]

Definition: Date and Time of Login.

Datatype: "ISODatetime" on page 923

6.4.2.4.2 SaleSoftware <SaleSftwr>

Presence: [1..*]

Definition: Information related to the software of the Sale System which manages the Sale to POI protocol.

SaleSoftware <SaleSftwr> contains the following elements (see "PointOfInteractionComponent10" on page 684 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfoInformation <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlrvyDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

6.4.2.4.3 SaleTerminalData <SaleTermnlData>

Presence: [0..1]

Definition: Information related to the software and hardware feature of the Sale Terminal.

SaleTerminalData <SaleTermnlData> contains the following **SaleTerminalData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TerminalEnvironment <TermnlEnvnt>	[0..1]	CodeSet		245
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		246

6.4.2.4.3.1 TerminalEnvironment <TermnlEnvnt>

Presence: [0..1]

Definition: Human attendance at the POI location during the transaction.

Datatype: "AttendanceContext1Code" on page 872

CodeName	Name	Definition
ATTD	Attended	Attended payment, with an attendant.
SATT	SemiAttended	Semi-attended, including self checkout. An attendant supervises several payment, and could be called to help the cardholder.
UATT	Unattended	Unattended payment, no attendant present.

6.4.2.4.3.2 SaleReconciliationIdentification <SaleRcncltnId>

Presence: [0..1]

Definition: Identifier of the reconciliation between the Sale system and the POI system.

Datatype: "Max35Text" on page 929

6.4.2.4.4 TrainingModeFlag <TrngMdFlg>

Presence: [0..1]

Definition: Training mode.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

6.4.2.4.5 CashierIdentification <CshrId>

Presence: [0..1]

Definition: Identification of the cashier.

Datatype: "Max35Text" on page 929

6.4.2.4.6 CashierLanguage <CshrLang>

Presence: [1..1]

Definition: Language of the cashier.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**
Must be a valid terrestrial language.

6.4.2.4.7 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Shift number of the cashier.

Datatype: "Max2NumericText" on page 928

6.4.2.4.8 TokenRequestedType <TknReqdTp>

Presence: [0..1]

Definition: Type of token replacing the PAN of a payment card to identify the payment mean of the customer.

Datatype: "SaleTokenScope1Code" on page 914

CodeName	Name	Definition
MULT	MultipleUse	The token is generated to recognise a customer for a longer period.
SNGL	SingleUse	The token is generated to recognise a customer during the lifetime of a transaction.

6.4.2.4.9 CustomerOrderRequest <CstmrOrdReq>

Presence: [0..1]

Definition: Type of customer orders that must be sent in response message.

Datatype: "CustomerOrderRequest1Code" on page 885

CodeName	Name	Definition
BOTH	Both	All types of CustomerOrder should be listed, some are open others closed.
CLSD	Closed	Completed customer orders.
OPEN	Open	Customer order not completed.

6.4.2.4.10 POIIdentification <POIID>

Presence: [0..1]

Definition: POI Terminal identification.

POIIdentification <POIID> contains the following **PointOfInteractionComponentIdentification1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemNumber <ItmNb>	[0..1]	Text		247
	ProviderIdentification <PrvdrId>	[0..1]	Text		248
	Identification <Id>	[0..1]	Text		248
	SerialNumber <SrlNb>	[0..1]	Text		248

6.4.2.4.10.1 ItemNumber <ItmNb>

Presence: [0..1]

Definition: Hierarchical identification of a hardware component inside all the hardware component of the POI. It is composed of all item numbers of the upper level components, separated by the '.' character, ended by the item number of the current component.

Datatype: "Max35Text" on page 929

6.4.2.4.10.2 ProviderIdentification <PrvdrId>

Presence: [0..1]

Definition: Identifies the provider of the software, hardware or parameters of the POI component.

Datatype: "Max35Text" on page 929

6.4.2.4.10.3 Identification <Id>

Presence: [0..1]

Definition: Identification of the POI component assigned by its provider.

Datatype: "Max35Text" on page 929

6.4.2.4.10.4 SerialNumber <SrINb>

Presence: [0..1]

Definition: Serial number identifying an occurrence of an hardware component.

Datatype: "Max35Text" on page 929

6.4.2.4.11 TotalsGroupIdentification <TtlsGrpId>

Presence: [0..1]

Definition: Default group identification for transaction consolidation (Totals).

Datatype: "Max35Text" on page 929

6.4.2.4.12 OutputDisplay <OutptDisp>

Presence: [0..1]

Definition: Message to be displayed.

OutputDisplay <OutptDisp> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRcdBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRcdVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRcdNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRcdErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

6.4.2.5 LogoutRequest <LgtReq>

Presence: [0..1]

Definition: Content of the Logout Request message.

LogoutRequest <LgtReq> contains the following **LogoutRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MaintenanceAllowed <MntncAllwd>	[0..1]	Indicator		249

6.4.2.5.1 MaintenanceAllowed <MntncAllwd>

Presence: [0..1]

Definition: Indicates that the POI terminal is able to go(or have to go) to maintenance.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

6.4.2.6 DiagnosisRequest <DgnssReq>

Presence: [0..1]

Definition: Content of the Diagnosis Request message.

DiagnosisRequest <DgnssReq> contains the following **DiagnosisRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	HostDiagnosisFlag <HstDgnssFlg>	[0..1]	Indicator		250
	AcquirerIdentification <Acqrrld>	[0..*]	Text		250

6.4.2.6.1 HostDiagnosisFlag <HstDgnssFlg>

Presence: [0..1]

Definition: Indicates if Host Diagnosis are required.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

6.4.2.6.2 AcquirerIdentification <Acqrrld>

Presence: [0..*]

Definition: Identification of the Acquirers.

Datatype: ["Max35Text" on page 929](#)

6.4.2.7 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: [C5 "SupplementaryDataRule"](#)

SupplementaryData <SplmtryData> contains the following elements (see ["SupplementaryData1" on page 645](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

6.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

7 casp.006.001.02

SaleToPOISessionManagementResponseV02

7.1 MessageDefinition Functionality

The SaleToPOISessionManagementResponse message is sent by a POI to provide the result of an administrative service related to session management.

Outline

The SaleToPOISessionManagementResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the request.

B. SessionManagementResponse

Information related to the response of a session management request.

C. SecurityTrailer

Trailer of the message containing a MAC or a digital signature.

7.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOISsnMgmtRspn>	[1..1]			
	Header <Hdr>	[1..1]			255
	MessageFunction <MsgFctn>	[1..1]	CodeSet		255
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		256
	ExchangeIdentification <XchgId>	[1..1]	Text		256
	CreationDateTime <CreDtTm>	[1..1]	DateTime		256
	InitiatingParty <InitgPty>	[1..1]	±		256
	RecipientParty <RcptPty>	[0..1]	±		257
	Traceability <Tracblt>	[0..*]	±		258
	SessionManagementResponse <SsnMgmtRspn>	[1..1]			258
	Environment <Envt>	[1..1]	±		260
	Context <Cntxt>	[1..1]	±		266
	ServiceContent <SvcCntt>	[1..1]	CodeSet		269
	LoginResponse <LgnRspn>	[0..1]			269
	POIDateTime <POIDtTm>	[1..1]	DateTime		269
	POISoftware <POISftwr>	[1..*]	±		269
	POICapabilities <POICpblties>	[0..1]	±		271
	OutputDisplay <OutptDisp>	[0..1]	±		272
	DiagnosisResponse <DgnssRspn>	[0..1]			273
	LoggedSaleIdentification <LggdSaleId>	[0..*]	Text		274
	POIStatus <POISsts>	[0..1]			274
	POICapabilities <POICpblties>	[0..1]	±		275
	POIComponent <POICmpnt>	[0..*]	±		276
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		278
	POIDateTime <POIDtTm>	[1..1]	DateTime		279
	DataSetRequired <DataSetReqrd>	[0..*]			279
	Identification <Id>	[1..1]	±		279
	POIChallenge <POIChllng>	[0..1]	Binary		279
	TMChallenge <TMChllng>	[0..1]	Binary		279
	SessionKey <SsnKey>	[0..1]	±		280

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	DelegationProof <DlgnProof>	[0..1]	Binary		280
	ProtectedDelegationProof <PrtctdDlgnProof>	[0..1]	±		280
	Event <Evt>	[0..*]	±		281
	Errors <Errs>	[0..*]	Text		281
	HostStatus <HstSts>	[0..*]			281
	AcquirerIdentification <Acqrrld>	[1..1]	Text		282
	Reachable <Rchbl>	[0..1]	Indicator		282
	Response <Rspn>	[1..1]	±		282
	SupplementaryData <SplmtryData>	[0..*]	±	C5	282
	SecurityTrailer <SctyTrlr>	[0..1]	±		283

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 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

7.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

7.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		255
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		256
	ExchangeIdentification <XchgId>	[1..1]	Text		256
	CreationDateTime <CreDtTm>	[1..1]	DateTime		256
	InitiatingParty <InitgPty>	[1..1]	±		256
	RecipientParty <RcptPty>	[0..1]	±		257
	Traceability <Tracblt>	[0..*]	±		258

7.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.

CodeName	Name	Definition
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

7.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

7.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

7.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

7.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

7.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

7.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

7.4.2 SessionManagementResponse <SsnMgmtRspn>

Presence: [1..1]

Definition: Information related to the response of a session management request.

SessionManagementResponse <SsnMgmtRspn> contains the following
SessionManagementResponse3 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envnt>	[1..1]	±		260
	Context <Cntxt>	[1..1]	±		266
	ServiceContent <SvcCntt>	[1..1]	CodeSet		269
	LoginResponse <LgnRspn>	[0..1]			269
	POIDateTime <POIDtTm>	[1..1]	DateTime		269
	POISoftware <POISftwr>	[1..*]	±		269
	POICapabilities <POICpblties>	[0..1]	±		271
	OutputDisplay <OutptDisp>	[0..1]	±		272
	DiagnosisResponse <DgnssRspn>	[0..1]			273
	LoggedSaleIdentification <LggdSaleId>	[0..*]	Text		274
	POIStatus <POISts>	[0..1]			274
	POICapabilities <POICpblties>	[0..1]	±		275
	POIComponent <POICmpnt>	[0..*]	±		276
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		278
	POIDateTime <POIDtTm>	[1..1]	DateTime		279
	DataSetRequired <DataSetReqrd>	[0..*]			279
	Identification <Id>	[1..1]	±		279
	POIChallenge <POIChllng>	[0..1]	Binary		279
	TMChallenge <TMChllng>	[0..1]	Binary		279
	SessionKey <SsnKey>	[0..1]	±		280
	DelegationProof <DlgnProof>	[0..1]	Binary		280
	ProtectedDelegationProof <PrtctdDlgnProof>	[0..1]	±		280
	Event <Evt>	[0..*]	±		281
	Errors <Errs>	[0..*]	Text		281
	HostStatus <HstSts>	[0..*]			281
	AcquirerIdentification <Acqrrld>	[1..1]	Text		282
	Reachable <Rchbl>	[0..1]	Indicator		282
	Response <Rspn>	[1..1]	±		282
	SupplementaryData <SplmtryData>	[0..*]	±	C5	282

7.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

7.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FllbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

7.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service answered.

Datatype: "RetailerService5Code" on page 911

CodeName	Name	Definition
SMIP	AdministrativeSessionManagementLoginResponse	The POI System responds to a login request.
SMOP	AdministrativeSessionManagementLogoutResponse	The POI System responds to a logout request.
SMDP	AdministrativeSessionManagementDiagnosisResponse	The POI System responds to a diagnosis request.

7.4.2.4 LoginResponse <LgnRspn>

Presence: [0..1]

Definition: Content of the Login Response message.

LoginResponse <LgnRspn> contains the following **LoginResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIDateTime <POIDtTm>	[1..1]	DateTime		269
	POISoftware <POISftwr>	[1..*]	±		269
	POICapabilities <POICpblties>	[0..1]	±		271
	OutputDisplay <OutptDisp>	[0..1]	±		272

7.4.2.4.1 POIDateTime <POIDtTm>

Presence: [1..1]

Definition: Date and Time of POI Login.

Datatype: "ISODateTime" on page 923

7.4.2.4.2 POISoftware <POISftwr>

Presence: [1..*]

Definition: Information related to the software of the POI System which manages the Sale to POI protocol.

POISoftware <POISftwr> contains the following elements (see "PointOfInteractionComponent10" on page 684 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfoInformation <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlrvyDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

7.4.2.4.3 POICapabilities <POICpblties>

Presence: [0..1]

Definition: Capabilities of the POI (Point Of Interaction) performing the transaction.

POICapabilities <POICpblties> contains the following elements (see "PointOfInteractionCapabilities9" on page 680 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[0..*]	CodeSet		680
	CardholderVerificationCapabilities <CrdhldrVrfctnCpblties>	[0..*]	CodeSet		681
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		682
	ApprovalCodeLength <ApprvlCdLngh>	[0..1]	Quantity		682
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		682
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		682
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		682
	MessageCapabilities <MsgCpblties>	[0..*]			682
	Destination <Dstn>	[1..*]	CodeSet		683
	AvailableFormat <AvlblFrmt>	[0..*]	CodeSet		683
	NumberOfLines <NbOfLines>	[0..1]	Quantity		683
	LineWidth <LineWidth>	[0..1]	Quantity		683
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet	C6	684

7.4.2.4.4 OutputDisplay <OutptDisp>

Presence: [0..1]

Definition: Message to be displayed.

OutputDisplay <OutptDisp> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

7.4.2.5 DiagnosisResponse <DgnssRspn>

Presence: [0..1]

Definition: Content of the Diagnosis Response message.

DiagnosisResponse <DgnssRspn> contains the following **DiagnosisResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoggedSaleIdentification <LggdSaleId>	[0..*]	Text		274
	POIStatus <POISts>	[0..1]			274
	POICapabilities <POICpblties>	[0..1]	±		275
	POIComponent <POICmpnt>	[0..*]	±		276
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		278
	POIDateTime <POIDtTm>	[1..1]	DateTime		279
	DataSetRequired <DataSetReqrd>	[0..*]			279
	Identification <Id>	[1..1]	±		279
	POIChallenge <POIChllng>	[0..1]	Binary		279
	TMChallenge <TMChllng>	[0..1]	Binary		279
	SessionKey <SsnKey>	[0..1]	±		280
	DelegationProof <DlgtProof>	[0..1]	Binary		280
	ProtectedDelegationProof <PrctcdDlgtProof>	[0..1]	±		280
	Event <Evt>	[0..*]	±		281
	Errors <Errs>	[0..*]	Text		281
	HostStatus <HstSts>	[0..*]			281
	AcquirerIdentification <AcqrId>	[1..1]	Text		282
	Reachable <Rchbl>	[0..1]	Indicator		282

7.4.2.5.1 LoggedSaleIdentification <LggdSaleId>

Presence: [0..*]

Definition: Sale Terminal logged to.

Datatype: "Max35Text" on page 929

7.4.2.5.2 POIStatus <POISts>

Presence: [0..1]

Definition: Status of the POI.

POIStatus <POISts> contains the following **StatusReportContent9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POICapabilities <POICpblties>	[0..1]	±		275
	POIComponent <POICmpnt>	[0..*]	±		276
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		278
	POIDateTime <POIDtTm>	[1..1]	DateTime		279
	DataSetRequired <DataSetReqrd>	[0..*]			279
	Identification <Id>	[1..1]	±		279
	POIChallenge <POIChllng>	[0..1]	Binary		279
	TMChallenge <TMChllng>	[0..1]	Binary		279
	SessionKey <SsnKey>	[0..1]	±		280
	DelegationProof <DlgtmProof>	[0..1]	Binary		280
	ProtectedDelegationProof <PrctcdDlgtmProof>	[0..1]	±		280
	Event <Evt>	[0..*]	±		281
	Errors <Errs>	[0..*]	Text		281

7.4.2.5.2.1 POICapabilities <POICpblties>

Presence: [0..1]

Definition: Capabilities of the POI (Point Of Interaction) performing the status report.

POICapabilities <POICpblties> contains the following elements (see "PointOfInteractionCapabilities9" on page 680 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[0..*]	CodeSet		680
	CardholderVerificationCapabilities <CrdhldrVrfctnCpblties>	[0..*]	CodeSet		681
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		682
	ApprovalCodeLength <ApprvlCdLngh>	[0..1]	Quantity		682
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		682
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		682
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		682
	MessageCapabilities <MsgCpblties>	[0..*]			682
	Destination <Dstn>	[1..*]	CodeSet		683
	AvailableFormat <AvlblFrmt>	[0..*]	CodeSet		683
	NumberOfLines <NbOfLines>	[0..1]	Quantity		683
	LineWidth <LineWidth>	[0..1]	Quantity		683
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet	C6	684

7.4.2.5.2.2 POIComponent <POICmpnt>

Presence: [0..*]

Definition: Data related to a component of the POI (Point Of Interaction) performing the status report.

POIComponent <POICmpnt> contains the following elements (see "PointOfInteractionComponent10" on page 684 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfoInformation <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrlId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlrvyDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

7.4.2.5.2.3 AttendanceContext <AttndncCntxt>

Presence: [0..1]

Definition: Human attendance at the POI (Point Of Interaction) location during transactions.

Datatype: "AttendanceContext1Code" on page 872

CodeName	Name	Definition
ATTD	Attended	Attended payment, with an attendant.
SATT	SemiAttended	Semi-attended, including self checkout. An attendant supervises several payment, and could be called to help the cardholder.
UATT	Unattended	Unattended payment, no attendant present.

7.4.2.5.2.4 POIDateTime <POIDtTm>

Presence: [1..1]

Definition: System date time of the point of interaction (POI) sending the status report.

Datatype: "ISODateTime" on page 923

7.4.2.5.2.5 DataSetRequired <DataSetReqrd>

Presence: [0..*]

Definition: Request the terminal management system to answer with the identified data set.

DataSetRequired <DataSetReqrd> contains the following **DataSetRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		279
	POIChallenge <POIChllng>	[0..1]	Binary		279
	TMChallenge <TMChllng>	[0..1]	Binary		279
	SessionKey <SsnKey>	[0..1]	±		280
	DelegationProof <DlgtProof>	[0..1]	Binary		280
	ProtectedDelegationProof <PrctcdDlgtProof>	[0..1]	±		280

7.4.2.5.2.5.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the required data set.

Identification <Id> contains the following elements (see "DataSetIdentification8" on page 646 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		646
	Type <Tp>	[1..1]	CodeSet		646
	Version <Vrsn>	[0..1]	Text		647
	CreationDateTime <CreDtTm>	[0..1]	DateTime		647

7.4.2.5.2.5.2 POIChallenge <POIChllng>

Presence: [0..1]

Definition: Point of interaction challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 861

7.4.2.5.2.5.3 TMChallenge <TMChllng>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 861

7.4.2.5.2.5.4 SessionKey <SsnKey>

Presence: [0..1]

Definition: Temporary encryption key that the host will use for protecting keys to download.

SessionKey <SsnKey> contains the following elements (see "[CryptographicKey14](#)" on page 812 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		813
	AdditionalIdentification <AddtlId>	[0..1]	Binary		813
	Name <Nm>	[0..1]	Text		813
	SecurityProfile <SctyPrfl>	[0..1]	Text		814
	ItemNumber <ItmNb>	[0..1]	Text		814
	Version <Vrsn>	[1..1]	Text		814
	Type <Tp>	[0..1]	CodeSet		814
	Function <Fctn>	[0..*]	CodeSet		815
	ActivationDate <ActvtnDt>	[0..1]	DateTime		815
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		815
	KeyValue <KeyVal>	[0..1]	±		816
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		816
	AdditionalManagementInformation <AddtlMgmtInf>	[0..*]			816
	Name <Nm>	[1..1]	Text		816
	Value <Val>	[0..1]	Text		816

7.4.2.5.2.5.5 DelegationProof <DlgnProof>

Presence: [0..1]

Definition: Proof of delegation to be validated by the terminal manager receiving a status report from a new POI.

Datatype: "[Max5000Binary](#)" on page 862

7.4.2.5.2.5.6 ProtectedDelegationProof <PrctcdDlgnProof>

Presence: [0..1]

Definition: Protected proof of delegation.

ProtectedDelegationProof <PrtctdDlgtProof> contains the following elements (see "ContentInformationType23" on page 817 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

7.4.2.5.2.6 Event <Evt>

Presence: [0..*]

Definition: Result of an individual terminal management action by the point of interaction.

Event <Evt> contains the following elements (see "TMSEvent7" on page 805 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TimeStamp <TmStmp>	[1..1]	DateTime		805
	Result <Rslt>	[1..1]	CodeSet		805
	ActionIdentification <ActnId>	[1..1]			806
	ActionType <ActnTp>	[1..1]	CodeSet		806
	DataSetIdentification <DataSetId>	[0..1]	±		807
	AdditionalErrorInformation <AddtlErrInf>	[0..1]	Text		807
	TerminalManagerIdentification <TermnlMgrld>	[0..1]	Text		807

7.4.2.5.2.7 Errors <Errs>

Presence: [0..*]

Definition: Error log of the point of interaction since the last status report.

Datatype: "Max140Text" on page 927

7.4.2.5.3 HostStatus <HstSts>

Presence: [0..*]

Definition: State of a Host.

HostStatus <HstSts> contains the following **HostStatus1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquirerIdentification <Acqrld>	[1..1]	Text		282
	Reachable <Rchbl>	[0..1]	Indicator		282

7.4.2.5.3.1 AcquirerIdentification <AcqrId>

Presence: [1..1]

Definition: Identification of the Acquirer.

Datatype: "Max35Text" on page 929

7.4.2.5.3.2 Reachable <Rchbl>

Presence: [0..1]

Definition: Indicate if a Host is reachable.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

7.4.2.6 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

7.4.2.7 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

7.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

8 casp.007.001.02 SaleToPOIAdministrativeRequestV02

8.1 MessageDefinition Functionality

The SaleToPOIAdministrativeRequest message is sent by a sale system to POI System to request for an Administrative service.

Outline

The SaleToPOIAdministrativeRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. AdministrativeRequest
Information related to the administrative request.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

8.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIAdmstvReq>	[1..1]			
	Header <Hdr>	[1..1]			285
	MessageFunction <MsgFctn>	[1..1]	CodeSet		286
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		286
	ExchangeIdentification <XchgId>	[1..1]	Text		287
	CreationDateTime <CreDtTm>	[1..1]	DateTime		287
	InitiatingParty <InitgPty>	[1..1]	±		287
	RecipientParty <RcptPty>	[0..1]	±		287
	Traceability <Tracblt>	[0..*]	±		288
	AdministrativeRequest <AdmstvReq>	[1..1]			288
	Environment <Envnt>	[1..1]	±		289
	Context <Cntxt>	[1..1]	±		295
	AdministrativeServiceIdentification <AdmstvSvcId>	[0..1]	Text		298
	SupplementaryData <SplmtryData>	[0..*]	±	C5	298
	SecurityTrailer <SctyTrlr>	[0..1]	±		298

8.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

8.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

8.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		286
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		286
	ExchangeIdentification <XchgId>	[1..1]	Text		287
	CreationDateTime <CreDtTm>	[1..1]	DateTime		287
	InitiatingParty <InitgPty>	[1..1]	±		287
	RecipientParty <RcptPty>	[0..1]	±		287
	Traceability <Tracblt>	[0..*]	±		288

8.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

8.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

8.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

8.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

8.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

8.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

8.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

8.4.2 AdministrativeRequest <AdmstvReq>

Presence: [1..1]

Definition: Information related to the administrative request.

AdministrativeRequest <AdmstvReq> contains the following **AdministrativeRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		289
	Context <Cntxt>	[1..1]	±		295
	AdministrativeServiceIdentification <AdmstvSvcId>	[0..1]	Text		298
	SupplementaryData <SplmtryData>	[0..*]	±	C5	298

8.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

8.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

8.4.2.3 AdministrativeServiceIdentification <AdmstvSvcId>

Presence: [0..1]

Definition: Identification of the administrative service to process.

Datatype: "Max20000Text" on page 928

8.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

8.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType21" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

9 casp.008.001.02 SaleToPOIAdministrativeResponseV02

9.1 MessageDefinition Functionality

The SaleToPOIAdministrativeResponse message is sent by a POI System to a sale system to provide response to an administrative service.

Outline

The SaleToPOIAdministrativeResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. AdministrativeResponse
Information related to the response of an administrative request.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

9.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIAdmstvRspn>	[1..1]			
	Header <Hdr>	[1..1]			300
	MessageFunction <MsgFctn>	[1..1]	CodeSet		301
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		301
	ExchangeIdentification <XchgId>	[1..1]	Text		302
	CreationDateTime <CreDtTm>	[1..1]	DateTime		302
	InitiatingParty <InitgPty>	[1..1]	±		302
	RecipientParty <RcptPty>	[0..1]	±		302
	Traceability <Tracblt>	[0..*]	±		303
	AdministrativeResponse <AdmstvRspn>	[1..1]			303
	Environment <Envt>	[1..1]	±		304
	Context <Cntxt>	[1..1]	±		310
	Response <Rspn>	[1..1]	±		313
	SupplementaryData <SplmtryData>	[0..*]	±	C5	313
	SecurityTrailer <SctyTrlr>	[0..1]	±		313

9.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

9.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

9.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		301
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		301
	ExchangeIdentification <XchgId>	[1..1]	Text		302
	CreationDateTime <CreDtTm>	[1..1]	DateTime		302
	InitiatingParty <InitgPty>	[1..1]	±		302
	RecipientParty <RcptPty>	[0..1]	±		302
	Traceability <Tracblt>	[0..*]	±		303

9.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

9.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

9.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

9.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

9.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

9.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

9.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

9.4.2 AdministrativeResponse <AdmstvRspn>

Presence: [1..1]

Definition: Information related to the response of an administrative request.

AdministrativeResponse <AdmstvRspn> contains the following **AdministrativeResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		304
	Context <Cntxt>	[1..1]	±		310
	Response <Rspn>	[1..1]	±		313
	SupplementaryData <SplmtryData>	[0..*]	±	C5	313

9.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwrdr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrdhldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnvr>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

9.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

9.4.2.3 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

9.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

9.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

10 casp.009.001.02 SaleToPOIRReportRequestV02

10.1 MessageDefinition Functionality

The SaleToPOIRReportRequest message is sent by sale system to request a report service.

Outline

The SaleToPOIRReportRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the request.

B. ReportRequest

Information related to the report request.

C. SecurityTrailer

Trailer of the message containing a MAC or a digital signature.

10.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIRptReq>	[1..1]			
	Header <Hdr>	[1..1]			317
	MessageFunction <MsgFctn>	[1..1]	CodeSet		318
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		319
	ExchangeIdentification <XchgId>	[1..1]	Text		319
	CreationDateTime <CreDtTm>	[1..1]	DateTime		319
	InitiatingParty <InitgPty>	[1..1]	±		319
	RecipientParty <RcptPty>	[0..1]	±		320
	Traceability <Tracblt>	[0..*]	±		321
	ReportRequest <RptReq>	[1..1]			321
	Environment <Envt>	[1..1]	±		322
	Context <Cntxt>	[1..1]	±		328
	ServiceContent <SvcCntt>	[1..1]	CodeSet		331
	ReportTransactionRequest <RptTxReq>	[0..1]			331
	SearchCriteria <SchCrit>	[1..*]			331
	SearchOr <SchOr>	[1..*]			332
	SearchAnd <SchAnd>	[1..*]			332
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprtr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333
	SearchOutputOrder <SchOutptOrd>	[0..1]			333
	CriteriaOrder <CritOrd>	[1..*]			333
	Target <Trgt>	[1..1]	Text		333
	DescendingOrder <DscndgOrd>	[0..1]	Indicator		333
	BlockStart <BlckStart>	[0..1]	Quantity		334
	BlockStop <BlckStop>	[0..1]	Quantity		334
	ReportGetTotalsRequest <RptGetTtlsReq>	[0..1]			334
	TotalDetails <TtlDtls>	[0..1]	CodeSet		334
	TotalFilter <TtlFltr>	[0..1]			335
	POIIdentification <POIID>	[0..1]	Text		335

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleIdentification <SaleId>	[0..1]	Text		335
	CashierIdentification <CshrlId>	[0..1]	Text		335
	ShiftNumber <ShftNb>	[0..1]	Text		335
	TotalsGroupIdentification <TtlsGrpId>	[0..1]	Text		335
	SupplementaryData <SplmtryData>	[0..*]	±	C5	336
	SecurityTrailer <SctyTrlr>	[0..1]	±		336

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 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

10.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

10.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		318
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		319
	ExchangeIdentification <XchgId>	[1..1]	Text		319
	CreationDateTime <CreDtTm>	[1..1]	DateTime		319
	InitiatingParty <InitgPty>	[1..1]	±		319
	RecipientParty <RcptPty>	[0..1]	±		320
	Traceability <Tracblt>	[0..*]	±		321

10.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.

CodeName	Name	Definition
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

10.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

10.4.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

10.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

10.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

10.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

10.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

10.4.2 ReportRequest <RptReq>

Presence: [1..1]

Definition: Information related to the report request.

ReportRequest <RptReq> contains the following **ReportRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		322
	Context <Cntxt>	[1..1]	±		328
	ServiceContent <SvcCntt>	[1..1]	CodeSet		331
	ReportTransactionRequest <RptTxReq>	[0..1]			331
	SearchCriteria <SchCrit>	[1..*]			331
	SearchOr <SchOr>	[1..*]			332
	SearchAnd <SchAnd>	[1..*]			332
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333
	SearchOutputOrder <SchOutputOrdr>	[0..1]			333
	CriteriaOrder <CritOrdr>	[1..*]			333
	Target <Trgt>	[1..1]	Text		333
	DescendingOrder <DscndgOrdr>	[0..1]	Indicator		333
	BlockStart <BlickStart>	[0..1]	Quantity		334
	BlockStop <BlickStop>	[0..1]	Quantity		334
	ReportGetTotalsRequest <RptGetTtlsReq>	[0..1]			334
	TotalDetails <TtlDtls>	[0..1]	CodeSet		334
	TotalFilter <TtlFiltr>	[0..1]			335
	POIIdentification <POIId>	[0..1]	Text		335
	SaleIdentification <SaleId>	[0..1]	Text		335
	CashierIdentification <CshrlId>	[0..1]	Text		335
	ShiftNumber <ShftNb>	[0..1]	Text		335
	TotalsGroupIdentification <TtlsGrpId>	[0..1]	Text		335
	SupplementaryData <SplmtryData>	[0..*]	±	C5	336

10.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LltyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwrdr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		758
	SensitiveMobileData <SnstivMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrdrhldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnvr>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

10.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrlId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Mandatelmage <MndtImg>	[0..1]	Binary		781

10.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService6Code" on page 911

CodeName	Name	Definition
RPTQ	AdministrativeReportTransactionRequest	The Sale System requests to the POI System a report on a list of transactions.
RPAQ	AdministrativeReportGetTotalsRequest	The Sale System requests to the POI System a report on the totals figures of the POI system.

10.4.2.4 ReportTransactionRequest <RptTxReq>

Presence: [0..1]

Definition: Content of the Transaction Report Request message.

ReportTransactionRequest <RptTxReq> contains the following **ReportTransactionRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SearchCriteria <SchCrit>	[1..*]			331
	SearchOr <SchOr>	[1..*]			332
	SearchAnd <SchAnd>	[1..*]			332
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333
	SearchOutputOrder <SchOutptOrdr>	[0..1]			333
	CriteriaOrder <CritOrdr>	[1..*]			333
	Target <Trgt>	[1..1]	Text		333
	DescendingOrder <DscndgOrdr>	[0..1]	Indicator		333
	BlockStart <BlckStart>	[0..1]	Quantity		334
	BlockStop <BlckStop>	[0..1]	Quantity		334

10.4.2.4.1 SearchCriteria <SchCrit>

Presence: [1..*]

Definition: Eligibility parameters for a transaction to be part of transaction report.

SearchCriteria <SchCrit> contains the following **SearchCriteria1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SearchOr <SchOr>	[1..*]			332
	SearchAnd <SchAnd>	[1..*]			332
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprtr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333

10.4.2.4.1.1 SearchOr <SchOr>

Presence: [1..*]

Definition: List of criteria following the OR logic.

SearchOr <SchOr> contains the following **SearchOr1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SearchAnd <SchAnd>	[1..*]			332
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprtr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333

10.4.2.4.1.1.1 SearchAnd <SchAnd>

Presence: [1..*]

Definition: List of criteria following the AND logic.

SearchAnd <SchAnd> contains the following **SearchAnd1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Target <Trgt>	[1..1]	Text		332
	Operator <Oprtr>	[1..1]	CodeSet		332
	Value <Val>	[1..1]	Text		333

10.4.2.4.1.1.1.1 Target <Trgt>

Presence: [1..1]

Definition: Identifier of target element.

Datatype: "Max500Text" on page 930

10.4.2.4.1.1.1.2 Operator <Oprtr>

Presence: [1..1]

Definition: Comparison operator used to evaluate matching transactions vs criteria.

Datatype: "Operator1Code" on page 895

CodeName	Name	Definition
SMAL	SmallerThan	Smaller than.
SMEQ	SmallerOrEqualTo	Smaller or equal to.
GREA	GreaterThan	Greater than.
GREQ	GreaterOrEqualTo	Greater or equal to.
EQAL	EqualTo	Equal to.

10.4.2.4.1.1.3 Value <Val>

Presence: [1..1]

Definition: Reference value to be used when evaluating against the target element value using the criteria operator.

Datatype: "Max500Text" on page 930

10.4.2.4.2 SearchOutputOrder <SchOutptOrdr>

Presence: [0..1]

Definition: Indicates the ordering in which the resulting transaction reports should be returned.

SearchOutputOrder <SchOutptOrdr> contains the following **SearchOutputOrder1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CriteriaOrder <CritOrdr>	[1..*]			333
	Target <Trgt>	[1..1]	Text		333

10.4.2.4.2.1 CriteriaOrder <CritOrdr>

Presence: [1..*]

Definition: Ordering criteria for the transaction report.

CriteriaOrder <CritOrdr> contains the following **CriteriaOrder1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Target <Trgt>	[1..1]	Text		333

10.4.2.4.2.1.1 Target <Trgt>

Presence: [1..1]

Definition: Identifier of target element.

Datatype: "Max500Text" on page 930

10.4.2.4.3 DescendingOrder <DscndgOrdr>

Presence: [0..1]

Definition: Indicates the order used for the criteria.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

10.4.2.4.4 BlockStart <BlckStart>

Presence: [0..1]

Definition: Index of the first transaction matching the search criteria.

Datatype: "PositiveNumber" on page 926

10.4.2.4.5 BlockStop <BlckStop>

Presence: [0..1]

Definition: Index of the last transaction matching the search criteria.

Datatype: "PositiveNumber" on page 926

10.4.2.5 ReportGetTotalsRequest <RptGetTtlsReq>

Presence: [0..1]

Definition: Content of the Get Totals Request message.

ReportGetTotalsRequest <RptGetTtlsReq> contains the following **ReportGetTotalsRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalDetails <TtlDtIs>	[0..1]	CodeSet		334
	TotalFilter <TtlFltr>	[0..1]			335
	POIIdentification <POIID>	[0..1]	Text		335
	SaleIdentification <SaleId>	[0..1]	Text		335
	CashierIdentification <CshrlId>	[0..1]	Text		335
	ShiftNumber <ShftNb>	[0..1]	Text		335
	TotalsGroupIdentification <TtlsGrpld>	[0..1]	Text		335

10.4.2.5.1 TotalDetails <TtlDtIs>

Presence: [0..1]

Definition: Indicates the hierarchical structure of the report.

Datatype: "TotalDetails1Code" on page 918

CodeName	Name	Definition
OPID	PerCashierIdentification	Give the totals result per Operator Identification value.
PIID	PerPOIIdentification	Give the totals result per POI Identification value.
TGID	PerTotalsGroup	Give the totals result per Totals Group Identification value.

CodeName	Name	Definition
SNID	PerShiftNumber	Give the totals result per Shift Number Identification value.
SAID	PerSaleIdentification	Give the totals result per Sale Identification value.

10.4.2.5.2 TotalFilter <TtIFltr>

Presence: [0..1]

Definition: Filter to compute the totals.

TotalFilter <TtIFltr> contains the following **TotalFilter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIIdentification <POIId>	[0..1]	Text		335
	SaleIdentification <SaleId>	[0..1]	Text		335
	CashierIdentification <CshrlId>	[0..1]	Text		335
	ShiftNumber <ShftNb>	[0..1]	Text		335
	TotalsGroupIdentification <TtlsGrpId>	[0..1]	Text		335

10.4.2.5.2.1 POIIdentification <POIId>

Presence: [0..1]

Definition: Identifier of the POI system performing a reconciliation.

Datatype: "Max35Text" on page 929

10.4.2.5.2.2 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the sale terminal (electronic cash register or point of sale terminal) or the sale system.

Datatype: "Max35Text" on page 929

10.4.2.5.2.3 CashierIdentification <CshrlId>

Presence: [0..1]

Definition: Identification of the cashier who carried out the transaction.

Datatype: "Max35Text" on page 929

10.4.2.5.2.4 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Identifies the shift of the cashier.

Datatype: "Max35Text" on page 929

10.4.2.5.2.5 TotalsGroupIdentification <TtlsGrpId>

Presence: [0..1]

Definition: Identification of a group of transaction on a POI Terminal, having the same Sale features.

Datatype: "Max35Text" on page 929

10.4.2.6 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

10.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType21" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

11 casp.010.001.02 SaleToPOIReportResponseV02

11.1 MessageDefinition Functionality

This SaleToPOIReportResponse message is sent by a POI to provide the report previously expected by a sale system.

Outline

The SaleToPOIReportResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. ReportResponse
Information related to the response of a report request.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

11.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIRptRspn>	[1..1]			
	Header <Hdr>	[1..1]			341
	MessageFunction <MsgFctn>	[1..1]	CodeSet		341
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		342
	ExchangeIdentification <XchgId>	[1..1]	Text		342
	CreationDateTime <CreDtTm>	[1..1]	DateTime		343
	InitiatingParty <InitgPty>	[1..1]	±		343
	RecipientParty <RcptPty>	[0..1]	±		343
	Traceability <Tracblt>	[0..*]	±		344
	ReportResponse <RptRspn>	[1..1]			344
	Environment <Envnt>	[1..1]	±		347
	Context <Cntxt>	[1..1]	±		353
	ServiceContent <SvcCntt>	[1..1]	CodeSet		356
	ReportTransactionResponse <RptTxRspn>	[0..1]			356
	ReportFullSize <RptFullSz>	[1..1]	Quantity		358
	BlockStart <BlckStart>	[1..1]	Quantity		358
	BlockStop <BlckStop>	[1..1]	Quantity		358
	TransactionReport <TxRpt>	[0..*]			358
	Response <Rspn>	[1..1]	±		359
	PaymentResponse <PmtRspn>	[0..1]			360
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		361
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		362
	POITransactionIdentification <POITxId>	[1..1]	±		362
	POIReconciliationIdentification <POIRcncldId>	[0..1]	Text		362
	IssuerReferenceData <IssrRefData>	[0..1]	Text		362
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		362
	PaymentReceipt <PmtRct>	[0..*]	±		365
	LoyaltyResult <LltyRslt>	[0..*]			365
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvlCd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLbl>	[0..1]	Text		369
	SaleItemRebate <SaleitmRbt>	[0..*]			369
	SaleItem <Saleitm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370
	CustomerOrder <CstmrOrd>	[0..*]	±		370
	ReportGetTotalsResponse <RptGetTtlsRspn>	[0..1]			371
	POIReconciliationIdentification <POIRcncltnId>	[1..1]	Text		373
	TransactionTotalsSet <TxTtlsSet>	[0..*]			373
	PaymentInstrumentType <PmtInstrmTp>	[1..1]	CodeSet		375
	AcquirerIdentification <Acqrrld>	[0..1]	Text		375
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		375
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		375
	Brand <Brnd>	[0..1]	Text		375
	POIIdentification <POIId>	[0..1]	Text		375
	SaleIdentification <SaleId>	[0..1]	Text		376
	CashierIdentification <CshrlId>	[0..1]	Text		376
	ShiftNumber <ShftNb>	[0..1]	Text		376
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			376
	CommonName <CmonNm>	[1..1]	Text		376
	Address <Adr>	[0..1]	Text		376
	CountryCode <CtryCd>	[1..1]	CodeSet		376

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		377
	RegisteredIdentifier <Regldr>	[1..1]	Text		377
	TransactionTotal <TxTtl>	[1..1]			377
	POIGroupIdentification <POIGrpld>	[0..1]	Text		377
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		377
	Currency <Ccy>	[0..1]	CodeSet	C1	377
	Type <Tp>	[1..1]	CodeSet		378
	TotalNumber <TtlNb>	[1..1]	Quantity		378
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		378
	DetailedAmount <DtldAmt>	[0..1]	±		378
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			379
	POIGroupIdentification <POIGrpld>	[0..1]	Text		379
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		379
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		380
	Currency <Ccy>	[0..1]	CodeSet	C1	380
	TransactionType <TxTp>	[1..1]	CodeSet		380
	TotalNumber <TtlNb>	[1..1]	Quantity		380
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		381
	DetailedAmount <DtldAmt>	[0..1]	±		381
	Response <Rspn>	[1..1]	±		381
	SupplementaryData <SplmtryData>	[0..*]	±	C5	381
	SecurityTrailer <SctyTrlr>	[0..1]	±		382

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 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

C7 ValidationByTable

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

11.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

11.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		341
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		342
	ExchangeIdentification <XchgId>	[1..1]	Text		342
	CreationDateTime <CreDtTm>	[1..1]	DateTime		343
	InitiatingParty <InitgPty>	[1..1]	±		343
	RecipientParty <RcptPty>	[0..1]	±		343
	Traceability <Tracblt>	[0..*]	±		344

11.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

11.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

11.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

11.4.1.4 CreationDate <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

11.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

11.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

11.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

11.4.2 ReportResponse <RptRspn>

Presence: [1..1]

Definition: Information related to the response of a report request.

ReportResponse <RptRspn> contains the following **ReportResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		347
	Context <Cntxt>	[1..1]	±		353
	ServiceContent <SvcCntt>	[1..1]	CodeSet		356
	ReportTransactionResponse <RptTxRspn>	[0..1]			356
	ReportFullSize <RptFullSz>	[1..1]	Quantity		358
	BlockStart <BlckStart>	[1..1]	Quantity		358
	BlockStop <BlckStop>	[1..1]	Quantity		358
	TransactionReport <TxRpt>	[0..*]			358
	Response <Rspn>	[1..1]	±		359
	PaymentResponse <PmtRspn>	[0..1]			360
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		361
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		362
	POITransactionIdentification <POITxId>	[1..1]	±		362
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		362
	IssuerReferenceData <IssrRefData>	[0..1]	Text		362
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		362
	PaymentReceipt <PmtRct>	[0..*]	±		365
	LoyaltyResult <LltyRslt>	[0..*]			365
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvICd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLbl>	[0..1]	Text		369

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItemRebate <SaleItmRbt>	[0..*]			369
	SaleItem <SaleItm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370
	CustomerOrder <CstmrOrd>	[0..*]	±		370
	ReportGetTotalsResponse <RptGetTtlsRspn>	[0..1]			371
	POIReconciliationIdentification <POIRcncltnld>	[1..1]	Text		373
	TransactionTotalsSet <TxTtlsSet>	[0..*]			373
	PaymentInstrumentType <PmtlnstrmTp>	[1..1]	CodeSet		375
	AcquirerIdentification <Acqrrld>	[0..1]	Text		375
	ReconciliationIdentification <Rcncltnld>	[0..1]	Text		375
	SaleReconciliationIdentification <SaleRcncltnld>	[0..1]	Text		375
	Brand <Brnd>	[0..1]	Text		375
	POIIdentification <POIld>	[0..1]	Text		375
	SaleIdentification <Saleld>	[0..1]	Text		376
	CashierIdentification <Cshrlld>	[0..1]	Text		376
	ShiftNumber <ShftNb>	[0..1]	Text		376
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			376
	CommonName <CmonNm>	[1..1]	Text		376
	Address <Adr>	[0..1]	Text		376
	CountryCode <CtryCd>	[1..1]	CodeSet		376
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		377
	RegisteredIdentifier <Regdldr>	[1..1]	Text		377
	TransactionTotal <TxTtl>	[1..1]			377
	POIGroupIdentification <POIGrpId>	[0..1]	Text		377
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		377
	Currency <Ccy>	[0..1]	CodeSet	C1	377
	Type <Tp>	[1..1]	CodeSet		378
	TotalNumber <TtlNb>	[1..1]	Quantity		378
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		378
	DetailedAmount <DtldAmt>	[0..1]	±		378
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			379

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIGroupIdentification <POIGrpId>	[0..1]	Text		379
	LoyaltyUnit <LtyUnit>	[0..1]	CodeSet		379
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		380
	Currency <Ccy>	[0..1]	CodeSet	C1	380
	TransactionType <TxTp>	[1..1]	CodeSet		380
	TotalNumber <TtlNb>	[1..1]	Quantity		380
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		381
	DetailedAmount <DtldAmt>	[0..1]	±		381
	Response <Rspn>	[1..1]	±		381
	SupplementaryData <SplmtryData>	[0..*]	±	C5	381

11.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <Crdhldrld>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <Drvrld>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrldNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

11.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

11.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService7Code" on page 911

CodeName	Name	Definition
RPTP	AdministrativeReportTransactionResponse	The POI System responds to a transaction report request.
RPAP	AdministrativeReportGetTotalsResponse	The POI System responds to a totals figures request.

11.4.2.4 ReportTransactionResponse <RptTxRspn>

Presence: [0..1]

Definition: Content of the Transaction Report Response message.

ReportTransactionResponse <RptTxRspn> contains the following **ReportTransactionResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReportFullSize <RptFullSz>	[1..1]	Quantity		358
	BlockStart <BlckStart>	[1..1]	Quantity		358
	BlockStop <BlckStop>	[1..1]	Quantity		358
	TransactionReport <TxRpt>	[0..*]			358
	Response <Rspn>	[1..1]	±		359
	PaymentResponse <PmtRspn>	[0..1]			360
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		361
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		362
	POITransactionIdentification <POITxId>	[1..1]	±		362
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		362
	IssuerReferenceData <IssrRefData>	[0..1]	Text		362
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		362
	PaymentReceipt <PmtRct>	[0..*]	±		365
	LoyaltyResult <LltyRslt>	[0..*]			365
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvlCd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLbl>	[0..1]	Text		369
	SaleItemRebate <SaleItmRbt>	[0..*]			369
	SaleItem <SaleItm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..*]	±		370

11.4.2.4.1 ReportFullSize <RptFullSz>

Presence: [1..1]

Definition: The total number of transactions matching the search criteria.

Datatype: "PositiveNumber" on page 926

11.4.2.4.2 BlockStart <BlckStart>

Presence: [1..1]

Definition: Index of the first transaction reported in this message within the list of transactions matching the search criteria.

Datatype: "PositiveNumber" on page 926

11.4.2.4.3 BlockStop <BlckStop>

Presence: [1..1]

Definition: Index of the last transaction reported in this message.

Datatype: "PositiveNumber" on page 926

11.4.2.4.4 TransactionReport <TxRpt>

Presence: [0..*]

Definition: List of Transaction Report containing one Transaction Report for each transaction matching the Search criteria. This list may be partial according to requested block.

TransactionReport <TxRpt> contains the following **PointOfInteractionTransactionReport2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	±		359
	PaymentResponse <PmtRspn>	[0..1]			360
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		361
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		362
	POITransactionIdentification <POITxId>	[1..1]	±		362
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		362
	IssuerReferenceData <IssrRefData>	[0..1]	Text		362
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		362
	PaymentReceipt <PmtRct>	[0..*]	±		365
	LoyaltyResult <LtyRslt>	[0..*]			365
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvlCd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLabl>	[0..1]	Text		369
	SaleItemRebate <SaleItmRbt>	[0..*]			369
	SaleItem <SaleItm>	[1..1]	±		369
	RebateLabel <RbtLabl>	[0..1]	Text		370
	CustomerOrder <CstmrOrd>	[0..*]	±		370

11.4.2.4.4.1 Response <Rspn>

Presence: [1..1]

Definition: Response for this specific transaction.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

11.4.2.4.4.2 PaymentResponse <PmtRspn>

Presence: [0..1]

Definition: Data responded to a Payment request.

PaymentResponse <PmtRspn> contains the following **PaymentResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		361
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		362
	POITransactionIdentification <POITxId>	[1..1]	±		362
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		362
	IssuerReferenceData <IssrRefData>	[0..1]	Text		362
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		362
	PaymentReceipt <PmtRct>	[0..*]	±		365
	LoyaltyResult <LltyRslt>	[0..*]			365
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvlCd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLabl>	[0..1]	Text		369
	SaleItemRebate <SaleitmRbt>	[0..*]			369
	SaleItem <Saleitm>	[1..1]	±		369
	RebateLabel <RbtLabl>	[0..1]	Text		370
	CustomerOrder <CstmrOrd>	[0..*]	±		370

11.4.2.4.4.2.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

11.4.2.4.4.2.2 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: ["Max35Text"](#) on page 929

11.4.2.4.4.2.3 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

11.4.2.4.4.2.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: ["Max35Text"](#) on page 929

11.4.2.4.4.2.5 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: ["Max140Text"](#) on page 927

11.4.2.4.4.2.6 RetailerPaymentResult <RtlrPmtRslt>

Presence: [1..1]

Definition: Data related to the result of a processed payment transaction.

RetailerPaymentResult <RtlrPmtRslt> contains the following elements (see
"RetailerPaymentResult2" on page 650 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		653
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		654
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		654
	RequestedTransaction <ReqdTxx>	[0..1]	±		655
	TransactionResponse <TxRspn>	[0..1]			658
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrtctdBal>	[0..1]	±		669
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgtAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <Dclrtndtls>	[0..*]	±		677
	CustomerOrder <CstmrOrd>	[0..*]	±		677
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			678
	ImageFormat <ImgFrmt>	[1..1]	Text		678
	ImageData <ImgData>	[0..1]	Binary		678
	ImageReference <ImgRef>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679
	ProtectedCapturedSignature <PrtctdCaptrdSgntr>	[0..1]	±		679
	MerchantOverrideFlag <MrchntOvrrdFlg>	[0..1]	Indicator		679
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	679
	OnlineFlag <OnlnFlg>	[0..1]	Indicator		679

11.4.2.4.4.2.7 PaymentReceipt <PmtRct>

Presence: [0..*]

Definition: Customer or Merchant payment receipt.

PaymentReceipt <PmtRct> contains the following elements (see "[PaymentReceipt2](#)" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

11.4.2.4.4.2.8 LoyaltyResult <LltyRslt>

Presence: [0..*]

Definition: Data related to the result of a processed loyalty transaction.

LoyaltyResult <LtyRsIt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		366
	Amount <Amt>	[0..1]			367
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367
	ServerData <SvrData>	[0..1]			367
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvlCd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368
	Rebates <Rbts>	[0..1]			368
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLbl>	[0..1]	Text		369
	SaleItemRebate <SaleItmRbt>	[0..*]			369
	SaleItem <SaleItm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370

11.4.2.4.4.2.8.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

11.4.2.4.4.2.8.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		367
	Currency <Ccy>	[0..1]	CodeSet	C1	367
	Amount <Amt>	[1..1]	Amount		367

11.4.2.4.4.2.8.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

11.4.2.4.4.2.8.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

11.4.2.4.4.2.8.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

11.4.2.4.4.2.8.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		368
	ApprovalCode <ApprvICd>	[0..1]	Text		368
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		368
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		368

11.4.2.4.4.2.8.3.1 LoyaltyServerIdentification <LtySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

11.4.2.4.4.2.8.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

11.4.2.4.4.2.8.3.3 LoyaltyTransactionIdentification <LtyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

11.4.2.4.4.2.8.3.4 HostReconciliationIdentification <HstRcncltnId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

11.4.2.4.4.2.8.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		369
	RebateLabel <RbtLbl>	[0..1]	Text		369
	SaleItemRebate <SaleitmRbt>	[0..*]			369
	SaleItem <Saleitm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370

11.4.2.4.4.2.8.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

11.4.2.4.4.2.8.4.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

11.4.2.4.4.2.8.4.3 SaleItemRebate <SaleitmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleitmRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		369
	RebateLabel <RbtLbl>	[0..1]	Text		370

11.4.2.4.4.2.8.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

11.4.2.4.4.2.8.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

11.4.2.4.4.2.9 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

11.4.2.5 ReportGetTotalsResponse <RptGetTtlsRspn>

Presence: [0..1]

Definition: Content of the Get Totals Response message.

ReportGetTotalsResponse <RptGetTtlsRspn> contains the following **ReportGetTotalsResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIReconciliationIdentification <POIRcncltnId>	[1..1]	Text		373
	TransactionTotalsSet <TxTtlsSet>	[0..*]			373
	PaymentInstrumentType <PmtInstrmTp>	[1..1]	CodeSet		375
	AcquirerIdentification <Acqrrld>	[0..1]	Text		375
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		375
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		375
	Brand <Brnd>	[0..1]	Text		375
	POIIdentification <POIId>	[0..1]	Text		375
	SaleIdentification <SaleId>	[0..1]	Text		376
	CashierIdentification <CshrlId>	[0..1]	Text		376
	ShiftNumber <ShftNb>	[0..1]	Text		376
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			376
	CommonName <CmonNm>	[1..1]	Text		376
	Address <Adr>	[0..1]	Text		376
	CountryCode <CtryCd>	[1..1]	CodeSet		376
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		377
	RegisteredIdentifier <RegldId>	[1..1]	Text		377
	TransactionTotal <TxTtl>	[1..1]			377
	POIGroupIdentification <POIGrpld>	[0..1]	Text		377
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		377
	Currency <Ccy>	[0..1]	CodeSet	C1	377
	Type <Tp>	[1..1]	CodeSet		378
	TotalNumber <TtlNb>	[1..1]	Quantity		378
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		378
	DetailedAmount <DtldAmt>	[0..1]	±		378
	LoyaltyTransactionTotal <LltyTxTtl>	[0..*]			379
	POIGroupIdentification <POIGrpld>	[0..1]	Text		379
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		379
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		380
	Currency <Ccy>	[0..1]	CodeSet	C1	380

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		380
	TotalNumber <TtlNb>	[1..1]	Quantity		380
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		381
	DetailedAmount <DtldAmt>	[0..1]	±		381

11.4.2.5.1 POIReconciliationIdentification <POIRcncldId>

Presence: [1..1]

Definition: Identification of the reconciliation period between Sale and POI.

Datatype: "Max35Text" on page 929

11.4.2.5.2 TransactionTotalsSet <TxTtlsSet>

Presence: [0..*]

Definition: Result of the Sale to POI Totals processing.

TransactionTotalsSet <TxTtlsSet> contains the following **TransactionTotalsSet1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentInstrumentType <PmtInstrmTp>	[1..1]	CodeSet		375
	AcquirerIdentification <Acqrrld>	[0..1]	Text		375
	ReconciliationIdentification <Rcncltnld>	[0..1]	Text		375
	SaleReconciliationIdentification <SaleRcncltnld>	[0..1]	Text		375
	Brand <Brnd>	[0..1]	Text		375
	POIIdentification <POIld>	[0..1]	Text		375
	SaleIdentification <Saleld>	[0..1]	Text		376
	CashierIdentification <Cshrlld>	[0..1]	Text		376
	ShiftNumber <ShftNb>	[0..1]	Text		376
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			376
	CommonName <CmonNm>	[1..1]	Text		376
	Address <Adr>	[0..1]	Text		376
	CountryCode <CtryCd>	[1..1]	CodeSet		376
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		377
	RegisteredIdentifier <Regldr>	[1..1]	Text		377
	TransactionTotal <TxTtl>	[1..1]			377
	POIGroupIdentification <POIGrpld>	[0..1]	Text		377
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		377
	Currency <Ccy>	[0..1]	CodeSet	C1	377
	Type <Tp>	[1..1]	CodeSet		378
	TotalNumber <TtlNb>	[1..1]	Quantity		378
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		378
	DetailedAmount <DtldAmt>	[0..1]	±		378
	LoyaltyTransactionTotal <LtyTxTtl>	[0..*]			379
	POIGroupIdentification <POIGrpld>	[0..1]	Text		379
	LoyaltyUnit <LtyUnit>	[0..1]	CodeSet		379
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		380
	Currency <Ccy>	[0..1]	CodeSet	C1	380
	TransactionType <TxTp>	[1..1]	CodeSet		380
	TotalNumber <TtlNb>	[1..1]	Quantity		380
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		381

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DetailedAmount <DtldAmt>	[0..1]	±		381

11.4.2.5.2.1 PaymentInstrumentType <PmtInstrmTp>

Presence: [1..1]

Definition: Type of payment instrument.

Datatype: "PaymentInstrumentType1Code" on page 899

CodeName	Name	Definition
CARD	Card	Payment card (credit or debit).
CASH	Cash	Cash managed by a cash handling system.
CHCK	Check	Paper check.
LOYT	LoyaltyAccount	Account using loyalty processing.
SVAC	StoredValueAccount	Account accessed by a stored value instrument such as a card or a certificate.

11.4.2.5.2.2 AcquirerIdentification <Acqrrld>

Presence: [0..1]

Definition: Identification of an Acquirer.

Datatype: "Max35Text" on page 929

11.4.2.5.2.3 ReconciliationIdentification <Rcncltnld>

Presence: [0..1]

Definition: Identifier of a host reconciliation period: acquirer for a payment or server for loyalty.

Datatype: "Max35Text" on page 929

11.4.2.5.2.4 SaleReconciliationIdentification <SaleRcncltnld>

Presence: [0..1]

Definition: Identifier of a reconciliation period on the sale system.

Datatype: "Max35Text" on page 929

11.4.2.5.2.5 Brand <Brnd>

Presence: [0..1]

Definition: Brand of payment card or loyalty system.

Datatype: "Max35Text" on page 929

11.4.2.5.2.6 POIIdentification <POIld>

Presence: [0..1]

Definition: Identifier of the POI system performing a reconciliation.

Datatype: "Max35Text" on page 929

11.4.2.5.2.7 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the sale terminal (electronic cash register or point of sale terminal) or the sale system.

Datatype: "Max35Text" on page 929

11.4.2.5.2.8 CashierIdentification <CshrlId>

Presence: [0..1]

Definition: Identification of the cashier who carried out the transactions.

Datatype: "Max35Text" on page 929

11.4.2.5.2.9 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Identifies the shift of the cashier.

Datatype: "Max2NumericText" on page 928

11.4.2.5.2.10 SponsoredMerchant <SpnsrdMrchnt>

Presence: [0..*]

Definition: Merchant using the payment services of a payment facilitator, acting as a card acceptor.

SponsoredMerchant <SpnsrdMrchnt> contains the following **Organisation26** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CommonName <CmonNm>	[1..1]	Text		376
	Address <Adr>	[0..1]	Text		376
	CountryCode <CtryCd>	[1..1]	CodeSet		376
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		377
	RegisteredIdentifier <RegIdIdr>	[1..1]	Text		377

11.4.2.5.2.10.1 CommonName <CmonNm>

Presence: [1..1]

Definition: Name of the merchant.

Datatype: "Max70Text" on page 930

11.4.2.5.2.10.2 Address <Adr>

Presence: [0..1]

Definition: Location of the merchant.

Datatype: "Max140Text" on page 927

11.4.2.5.2.10.3 CountryCode <CtryCd>

Presence: [1..1]

Definition: Country of the merchant.

Datatype: "ISO3NumericCountryCode" on page 891

11.4.2.5.2.10.4 MerchantCategoryCode <MrchntCtgyCd>

Presence: [1..1]

Definition: Category code conform to ISO 18245, related to the type of services or goods the merchant provides for the transaction.

Datatype: "Min3Max4Text" on page 931

11.4.2.5.2.10.5 RegisteredIdentifier <RegldIdr>

Presence: [1..1]

Definition: Identifier of the sponsored merchant assigned by the payment facilitator of their acquirer.

Datatype: "Max35Text" on page 929

11.4.2.5.2.11 TransactionTotal <TxTtl>

Presence: [1..1]

Definition: Payment Transaction totals during the reconciliation period, for a certain type of transaction.

TransactionTotal <TxTtl> contains the following **TransactionTotals8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIGroupIdentification <POIGrpId>	[0..1]	Text		377
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		377
	Currency <Ccy>	[0..1]	CodeSet	C1	377
	Type <Tp>	[1..1]	CodeSet		378
	TotalNumber <TtlNb>	[1..1]	Quantity		378
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		378
	DetailedAmount <DtldAmt>	[0..1]	±		378

11.4.2.5.2.11.1 POIGroupIdentification <POIGrpId>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 929

11.4.2.5.2.11.2 CardProductProfile <CardPdctPrfl>

Presence: [0..1]

Definition: Category of cards related the acceptance processing rules defined by the acquirer.

Datatype: "Max35Text" on page 929

11.4.2.5.2.11.3 Currency <Ccy>

Presence: [0..1]

Definition: Currency associated with the transaction totals.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

11.4.2.5.2.11.4 Type <Tp>

Presence: [1..1]

Definition: Identification of the type of transaction.

Datatype: "TypeTransactionTotals3Code" on page 920

CodeName	Name	Definition
CRDT	Credit	Credit transactions (refund, account, cash service, as defined in the transaction service type).
CRDR	CreditReverse	Reversal of credit transactions (cancellation).
DEBT	Debit	Debit transactions on the cardholder account.
DBTR	DebitReverse	Reversal of debit transactions (cancellation).
DECL	Declined	Declined transactions.
FAIL	Failed	Failed transactions.
RESV	Reservation	Outstanding Reservation transactions.

11.4.2.5.2.11.5 TotalNumber <TtlNb>

Presence: [1..1]

Definition: Total number of transactions during a reconciliation period.

Datatype: "Number" on page 926

11.4.2.5.2.11.6 CumulativeAmount <CmltvAmt>

Presence: [1..1]

Definition: Total amount of a collection of transactions.

Datatype: "ImpliedCurrencyAndAmount" on page 860

11.4.2.5.2.11.7 DetailedAmount <DtldAmt>

Presence: [0..1]

Definition: Detailed amounts associated with the total amount of transaction.

DetailedAmount <DtldAmt> contains the following elements (see "DetailedAmount15" on page 593 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

11.4.2.5.2.12 LoyaltyTransactionTotal <LltyTxTtl>

Presence: [0..*]

Definition: Loyalty Transaction totals during the reconciliation period, for a certain type of transaction.

LoyaltyTransactionTotal <LltyTxTtl> contains the following **LoyaltyTransactionTotals1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIGroupIdentification <POIGrpId>	[0..1]	Text		379
	LoyaltyUnit <LltyUnit>	[0..1]	CodeSet		379
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		380
	Currency <Ccy>	[0..1]	CodeSet	C1	380
	TransactionType <TxTp>	[1..1]	CodeSet		380
	TotalNumber <TtlNb>	[1..1]	Quantity		380
	CumulativeAmount <CmltvAmt>	[1..1]	Amount		381
	DetailedAmount <DtldAmt>	[0..1]	±		381

11.4.2.5.2.12.1 POIGroupIdentification <POIGrpId>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 929

11.4.2.5.2.12.2 LoyaltyUnit <LltyUnit>

Presence: [0..1]

Definition: Unit of the amount, expressed in point or in a monetary value and a currency.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

11.4.2.5.2.12.3 CardProductProfile <CardPdctPrfl>

Presence: [0..1]

Definition: Cards category related to the acceptance processing rules defined by the Loyalty provider.

Datatype: "Max35Text" on page 929

11.4.2.5.2.12.4 Currency <Ccy>

Presence: [0..1]

Definition: Currency associated with the transaction totals.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

11.4.2.5.2.12.5 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of Loyalty transaction for Report.

Datatype: "LoyaltyTypeTransactionTotals1Code" on page 894

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
AWRR	ReverseAward	Refund of a loyalty award transaction.
REBR	ReverseRebate	Refund of a loyalty rebate transaction.
REDR	ReverseRedemption	Refund of a loyalty redemption transaction.

11.4.2.5.2.12.6 TotalNumber <TtlNb>

Presence: [1..1]

Definition: Total number of transactions during a reconciliation period.

Datatype: "Number" on page 926

11.4.2.5.2.12.7 CumulativeAmount <CmltvAmt>

Presence: [1..1]

Definition: Total amount of a collection of transactions.

Datatype: "ImpliedCurrencyAndAmount" on page 860

11.4.2.5.2.12.8 DetailedAmount <DtldAmt>

Presence: [0..1]

Definition: Detailed amounts associated with the total amount of transactions.

DetailedAmount <DtldAmt> contains the following elements (see "DetailedAmount15" on page 593 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

11.4.2.6 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

11.4.2.7 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "[SupplementaryData1](#)" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

11.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

12 casp.011.001.02 SaleToPOIAbortV02

12.1 MessageDefinition Functionality

The SaleToPOIAbort message is sent by a sale system to abort process on POI.

Outline

The SaleToPOIAbortV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the request.

B. Abort

Information related to an abort request.

C. SecurityTrailer

Trailer of the message containing a MAC or a digital signature.

12.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIAbrt>	[1..1]			
	Header <Hdr>	[1..1]			385
	MessageFunction <MsgFctn>	[1..1]	CodeSet		385
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		386
	Exchangeldentification <Xchgld>	[1..1]	Text		386
	CreationDateTime <CreDtTm>	[1..1]	DateTime		387
	InitiatingParty <InitgPty>	[1..1]	±		387
	RecipientParty <RcptPty>	[0..1]	±		387
	Traceability <Tracblt>	[0..*]	±		388
	Abort <Abrt>	[1..1]			388
	Environment <Envt>	[1..1]	±		389
	Context <Cntxt>	[1..1]	±		395
	SystemAbort <SysAbrt>	[1..1]			398
	Exchangeldentification <Xchgld>	[1..1]	Text		398
	AbortReason <AbrtRsn>	[1..1]	Text		398
	DisplayOutput <DispOutpt>	[0..1]	±		398
	TransactionSuccess <TxSucss>	[0..1]	Indicator		399
	SupplementaryData <SplmtryData>	[0..*]	±	C5	399
	SecurityTrailer <SctyTrlr>	[0..1]	±		400

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 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

12.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

12.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		385
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		386
	ExchangeIdentification <XchgId>	[1..1]	Text		386
	CreationDateTime <CreDtTm>	[1..1]	DateTime		387
	InitiatingParty <InitgPty>	[1..1]	±		387
	RecipientParty <RcptPty>	[0..1]	±		387
	Traceability <Tracblt>	[0..*]	±		388

12.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or

CodeName	Name	Definition
		software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

12.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

12.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

12.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

12.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

12.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

12.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

12.4.2 Abort <Abrt>

Presence: [1..1]

Definition: Information related to an abort request.

Abort <Abrt> contains the following **SystemAbort3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		389
	Context <Cntxt>	[1..1]	±		395
	SystemAbort <SysAbrt>	[1..1]			398
	Exchangeldentification <Xchgld>	[1..1]	Text		398
	AbortReason <AbrtRsn>	[1..1]	Text		398
	DisplayOutput <DispOutpt>	[0..1]	±		398
	TransactionSuccess <TxSucss>	[0..1]	Indicator		399
	SupplementaryData <SplmtryData>	[0..*]	±	C5	399

12.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <Crdhldrld>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <Drvrld>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrldNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

12.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

12.4.2.3 SystemAbort <SysAbrt>

Presence: [1..1]

Definition: Body of the Abort Request message.

SystemAbort <SysAbrt> contains the following **AbortData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ExchangeIdentification <XchgId>	[1..1]	Text		398
	AbortReason <AbrtRsn>	[1..1]	Text		398
	DisplayOutput <DispOutpt>	[0..1]	±		398
	TransactionSuccess <TxSucss>	[0..1]	Indicator		399

12.4.2.3.1 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Message identifier.

Datatype: "Max35Text" on page 929

12.4.2.3.2 AbortReason <AbrtRsn>

Presence: [1..1]

Definition: Reason of aborting a transaction.

Datatype: "Max140Text" on page 927

12.4.2.3.3 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: To display an abort message to the Customer.

DisplayOutput <DispOutput> contains the following elements (see ["ActionMessage7"](#) on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrCdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrCdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

12.4.2.3.4 TransactionSuccess <TxSucss>

Presence: [0..1]

Definition: Outcome of the transaction at the acceptor.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

12.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 ["SupplementaryDataRule"](#)

SupplementaryData <SplmtryData> contains the following elements (see ["SupplementaryData1"](#) on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

12.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

13 casp.012.001.02 SaleToPOIEventNotificationV02

13.1 MessageDefinition Functionality

The SaleToPOIEventNotification message is sent by a POI or a sale terminal to inform the other about the happening of an event.

Outline

The SaleToPOIEventNotificationV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. EventNotification
Information related to the notification of an event.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

13.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIEvtNtfctn>	[1..1]			
	Header <Hdr>	[1..1]			403
	MessageFunction <MsgFctn>	[1..1]	CodeSet		404
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		404
	ExchangeIdentification <XchgId>	[1..1]	Text		405
	CreationDateTime <CreDtTm>	[1..1]	DateTime		405
	InitiatingParty <InitgPty>	[1..1]	±		405
	RecipientParty <RcptPty>	[0..1]	±		405
	Traceability <Tracblt>	[0..*]	±		406
	EventNotification <EvtNtfctn>	[1..1]			406
	Environment <Envnt>	[1..1]	±		407
	Context <Cntxt>	[1..1]	±		413
	EventNotification <EvtNtfctn>	[1..1]			416
	RetailerEvent <RtlrEvt>	[1..1]			416
	EventTimeStamp <EvtTmStmp>	[1..1]	DateTime		417
	EventToNotify <EvtToNtfy>	[1..1]	CodeSet		417
	EventContext <EvtCntxt>	[0..1]			418
	ServiceType <SvcTp>	[1..1]	CodeSet		418
	ComponentIdentification <CmpntId>	[0..1]	±		421
	SaleIdentification <SaleId>	[0..1]	Text		423
	AdditionalEventInformation <AddtlEvtInf>	[0..1]	Text		423
	MaintenanceRequiredFlag <MntncReqrdFlg>	[0..1]	Indicator		423
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	424
	DisplayOutput <DispOutpt>	[0..1]	±		424
	SupplementaryData <SplmtryData>	[0..*]	±	C5	425
	SecurityTrailer <SctyTrlr>	[0..1]	±		425

13.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

13.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

13.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		404
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		404
	ExchangeIdentification <XchgId>	[1..1]	Text		405
	CreationDateTime <CreDtTm>	[1..1]	DateTime		405
	InitiatingParty <InitgPty>	[1..1]	±		405
	RecipientParty <RcptPty>	[0..1]	±		405
	Traceability <Tracblt>	[0..*]	±		406

13.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

13.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

13.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

13.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

13.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

13.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

13.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

13.4.2 EventNotification <EvtNtfctn>

Presence: [1..1]

Definition: Information related to the notification of an event.

EventNotification <EvtNtfctn> contains the following **SystemEventNotification3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		407
	Context <Cntxt>	[1..1]	±		413
	EventNotification <EvtNtfctn>	[1..1]			416
	RetailerEvent <RtlrEvt>	[1..1]			416
	EventTimeStamp <EvtTmStmp>	[1..1]	DateTime		417
	EventToNotify <EvtToNtfy>	[1..1]	CodeSet		417
	EventContext <EvtCntxt>	[0..1]			418
	ServiceType <SvcTp>	[1..1]	CodeSet		418
	ComponentIdentification <CmpntId>	[0..1]	±		421
	SaleIdentification <SaleId>	[0..1]	Text		423
	AdditionalEventInformation <AddtlEvtInf>	[0..1]	Text		423
	MaintenanceRequiredFlag <MntncReqrdfg>	[0..1]	Indicator		423
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	424
	DisplayOutput <DispOutpt>	[0..1]	±		424
	SupplementaryData <SplmtryData>	[0..*]	±	C5	425

13.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

13.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

13.4.2.3 EventNotification <EvtNtfctn>

Presence: [1..1]

Definition: Content of the EventNotification message.

EventNotification <EvtNtfctn> contains the following **EventNotificationData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RetailerEvent <RtlrEvt>	[1..1]			416
	EventTimeStamp <EvtTmStmp>	[1..1]	DateTime		417
	EventToNotify <EvtToNtfy>	[1..1]	CodeSet		417
	EventContext <EvtCntxt>	[0..1]			418
	ServiceType <SvcTp>	[1..1]	CodeSet		418
	ComponentIdentification <Cmpntld>	[0..1]	±		421
	SaleIdentification <SaleId>	[0..1]	Text		423
	AdditionalEventInformation <AddtlEvtInf>	[0..1]	Text		423
	MaintenanceRequiredFlag <MntncReqrdFlg>	[0..1]	Indicator		423
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	424
	DisplayOutput <DispOutpt>	[0..1]	±		424

13.4.2.3.1 RetailerEvent <RtlrEvt>

Presence: [1..1]

Definition: Content of the Retailer Event message.

RetailerEvent <RtlrEvt> contains the following **RetailerEvent2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EventTimeStamp <EvtTmStmp>	[1..1]	DateTime		417
	EventToNotify <EvtToNtfy>	[1..1]	CodeSet		417
	EventContext <EvtCntxt>	[0..1]			418
	ServiceType <SvcTp>	[1..1]	CodeSet		418
	ComponentIdentification <Cmpntld>	[0..1]	±		421
	SaleIdentification <SaleId>	[0..1]	Text		423
	AdditionalEventInformation <AddtlEvtInf>	[0..1]	Text		423

13.4.2.3.1.1 EventTimeStamp <EvtTmStmp>

Presence: [1..1]

Definition: Date and time of the event.

Datatype: "ISODatetime" on page 923

13.4.2.3.1.2 EventToNotify <EvtToNtfy>

Presence: [1..1]

Definition: Event the POI notifies to the Sale System.

Datatype: "EventToNotify2Code" on page 887

CodeName	Name	Definition
ABRT	Abort	One or several device request has been sent by the POI during the processing of a service requested by the Sale System. The processing is cancelled by the Customer or stopped by the POI. If the device response is not received by the POI, an event is sent to inform the Sale to abort internally these device requests.
MAIB	BeginMaintenance	Begin of POI Maintenance.
CRDI	CardInserted	A card is inserted in the card reader (see Input request and NotifyCardInputFlag).
COMP	Completed	An Abort request has been sent to abort a message which is already completed.
CRDR	CardRemoved	A card is removed from the card reader.
CUSL	CustomerLanguage	The customer has selected a different language on the POI.
MAIE	EndMaintenance	End of POI Maintenance.
INIT	Initialised	The POI Terminal or the POI System is now ready to work.
KEYP	KeyPressed	The customer has pressed a specific key on the POI.
MAIR	MaintenanceRequired	Maintenance required by the POI.
OODR	OutOfOrder	The POI Terminal or the POI System cannot work.
SADM	SaleAdmin	The POI has performed, or want to perform an automatic administrative process, e.g. the reports at the end of day.
SWUP	SaleWakeUp	A POI terminal requests the payment of the transaction identified by the content of EventDetails in the Event notification.
SECA	SecurityAlarm	Problem of security.
SHUT	Shutdown	The POI Terminal or the POI System is shutting down.
SASS	StopAssistance	When the Customer assistance is stopped, because the Customer has completed its input.

CodeName	Name	Definition
DISC	Disconnected	A disconnection occurred.
CNTN	Connected	Connection has been set up.
TNOK	TransactionApproved	Transaction has been processed and approved by the POI.
TNKO	TransactionDeclined	Transaction has been processed but has been declined.

13.4.2.3.1.3 EventContext <EvtCntxt>

Presence: [0..1]

Definition: Context of the Event message.

EventContext <EvtCntxt> contains the following **EventContext2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceType <SvcTp>	[1..1]	CodeSet		418
	ComponentIdentification <CmpntId>	[0..1]	±		421
	SaleIdentification <SaleId>	[0..1]	Text		423

13.4.2.3.1.3.1 ServiceType <SvcTp>

Presence: [1..1]

Definition: Reference to the service and functions related to the event.

Datatype: "RetailerService1Code" on page 907

CodeName	Name	Definition
DCAQ	DeviceSendApplicationProtocolDataUnitCardReaderRequest	A service to send commands to a card.
ADAQ	AdministrativeAdminRequest	An administrative request, to select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
ADAP	AdministrativeAdminResponse	The POI System responds to an administrative request.
RPAP	AdministrativeReportGetTotalsResponse	The POI System responds to a totals figures request.
RPAQ	AdministrativeReportGetTotalsRequest	The Sale System requests to the POI System a report on the totals figures of the POI system.
RPTQ	AdministrativeReportTransactionRequest	The Sale System requests to the POI System a report on a list of transactions.
RPTP	AdministrativeReportTransactionResponse	The POI System responds to a transaction report request.
SMDQ	AdministrativeSessionManagementDiagnosisRequest	The Sale System requests a session diagnosis to the POI System.

CodeName	Name	Definition
SMDP	AdministrativeSessionManagementDiagnosisResponse	The POI System responds to a diagnosis request.
SMIQ	AdministrativeSessionManagementLoginRequest	The Sale System requests a login to the POI System.
SMIP	AdministrativeSessionManagementLoginResponse	The POI System responds to a login request.
SMOQ	AdministrativeSessionManagementLogoutRequest	The Sale System requests a logout to the POI System.
SMOP	AdministrativeSessionManagementLogoutResponse	The POI System responds to a logout request.
DDYQ	DeviceDisplayRequest	One System requests the other to display a message for cashier or customer.
DDYP	DeviceDisplayResponse	One system responds to the other system for a display request.
DCIQ	DeviceInitialisationCardReaderRequest	Service to send parameters to use when card reader initializes a new communication with the card.
DCIP	DeviceInitialisationCardReaderResponse	The POI system responds to the Sale System for a card reader initialisation.
DINO	DeviceInputNotification	One system sends a notification to the POI System to update a input request.
DINQ	DeviceInputRequest	One system requests to the other System to get data input.
DINP	DeviceInputResponse	One system responds to the other System for a input request.
DSOQ	DevicePlaySoundRequest	One system requests to the Other System to play a sound.
DSOP	DevicePlaySoundResponse	One system responds to the other System for a play sound request.
DCPQ	DevicePowerOffCardReaderRequest	The Sale system requests to the POI System to power off the card reader.
DCPP	DevicePowerOffCardRequestResponse	The POI system responds to the Sale System for a card reader power off.
DPRQ	DevicePrintRequest	One system requests to the other System to print data.
DPRP	DevicePrintResponse	One system responds to the other System for a print request.
DSIQ	DeviceSecureInputRequest	One system requests to the Other System to securely get data input (e.g. for PIN).
DSIP	DeviceSecureInputResponse	One system responds to the other System for secure data input.
DCAP	DeviceSendApplicationProtocolDataUnitCardReaderResponse	The POI system responds to the Sale System for a card reader Application Protocol Data Unit sending.

CodeName	Name	Definition
DCOQ	DeviceTransmissionMessageRequest	The Sale system requests to the POI System to transmit a message (for instance to a mobile server).
DCOP	DeviceTransmissionMessageResponse	The POI system responds to the Sale System after a message transmission.
FSIQ	FinancialBalanceInquiryRequest	The Sale System requests to the POI System to perform balance inquiry on the main account.
FSIP	FinancialBalanceInquiryResponse	The POI System sends a response to a Balance Inquiry request.
FSBQ	FinancialBatchRequest	The Batch message pair is used to request or get the result of transactions (payment, loyalty and reversal) performed without connection to the Sale system (Payment delivery).
FSBP	FinancialBatchResponse	The POI System sends a response to a batch processing request.
FSAQ	FinancialCardAcquisitionRequest	The Sale System requests to the POI System to handle a card data acquisition on the card reader.
FSAP	FinancialCardAcquisitionResponse	The POI System sends a response to a card data acquisition request.
FSEQ	FinancialEnableServiceRequest	The Sale System requests to the POI System to enable a service on its side.
FSEP	FinancialEnableServiceResponse	The POI System sends a response after enabling or not some service.
FSLQ	FinancialLoyaltyRequest	The Sale System requests to the POI System a loyalty service like loading or redeem.
FSLP	FinancialLoyaltyResponse	The POI System sends a response to a loyalty processing request.
FSPQ	FinancialPaymentRequest	The Sale System requests to the POI System to perform a payment(Purchase/Refund/PWCB/MOTO Payment/...).
FSPR	FinancialPaymentResponse	The POI System sends a response to a payment request (Purchase/refund/PWCB/MOTO Payment/...).
FSCQ	FinancialReconciliationRequest	The Sale System request to the POI System different kinds of transaction reconciliation.
FSCP	FinancialReconciliationResponse	The POI System sends a response to a reconciliation request.
FSRQ	FinancialReversalRequest	The Sale System requests to the POI System to perform a reversal partial or complete to cancel a former payment service.
FSRP	FinancialReversalResponse	The POI System sends a response to a reversal request.
FSVQ	FinancialStoredValueRequest	The Sale System requests to the POI System to manage a stored value card

CodeName	Name	Definition
		or account (eg. Load, Payment, Reimbursement).
FSVP	FinancialStoredValueResponse	The POI System sends a response to a stored value card or account request.
SSAB	SystemAbort	Abort a former request or message by the sale system.
SSEN	SystemEventNotification	Send an Event notification to the other party.
SSRR	SystemMessageRejection	Send a rejection for a previous message.
SSSQ	SystemMessageStatusRequest	The Sale System requests to the POI System the status of a previous transaction.
SSSP	SystemMessageStatusResponse	The POI System responds to a message status request.

13.4.2.3.1.3.2 ComponentIdentification <CmpntId>

Presence: [0..1]

Definition: Identification of the Point Of Interaction.

ComponentIdentification <CmpntId> contains the following elements (see
"PointOfInteractionComponent10" on page 684 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfoInformation <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlrvyDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

13.4.2.3.1.3.3 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the Sale System.

Datatype: "Max35Text" on page 929

13.4.2.3.1.4 AdditionalEventInformation <AddtlEvtInf>

Presence: [0..1]

Definition: Additional Information according to the event type.

Datatype: "Max1025Text" on page 927

13.4.2.3.2 MaintenanceRequiredFlag <MntncReqrdfg>

Presence: [0..1]

Definition: Indicates if the occurred event requires maintenance call or action.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

13.4.2.3.3 CustomerLanguage <CstmrLang>

Presence: [0..1]

Definition: Language of the Customer

Impacted by: C6 "ValidationByTable"

Datatype: ["LanguageCode"](#) on page 892

Constraints

- **ValidationByTable**
Must be a valid terrestrial language.

13.4.2.3.4 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: To display an event message

DisplayOutput <DispOutpt> contains the following elements (see ["ActionMessage7"](#) on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstr>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

13.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "[SupplementaryData1](#)" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

13.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

14 casp.013.001.02 SaleToPOIMessageRejectionV02

14.1 MessageDefinition Functionality

The SaleToPOIMessageRejection message is sent by one of the parties when it detects a technical or functional error in a previous received message.

Outline

The SaleToPOIMessageRejectionV02 MessageDefinition is composed of 2 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the request.

B. Reject

Information related to the reject.

14.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIMsgRjctn>	[1..1]			
	Header <Hdr>	[1..1]			427
	MessageFunction <MsgFctn>	[1..1]	CodeSet		427
	ProtocolVersion <PrctlVrsn>	[1..1]	Text		428
	ExchangeIdentification <XchgId>	[1..1]	Text		428
	CreationDateTime <CreDtTm>	[1..1]	DateTime		428
	InitiatingParty <InitgPty>	[1..1]	±		428
	RecipientParty <RcptPty>	[0..1]	±		429
	Traceability <Tracblt>	[0..*]	±		430
	Reject <Rjct>	[1..1]			430
	RejectReason <RjctRsn>	[1..1]	CodeSet		431
	AdditionalInformation <AddtlInf>	[0..1]	Text		431
	MessageInError <MsgInErr>	[0..1]	Binary		431

14.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

14.3.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		427
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		428
	ExchangeIdentification <XchgId>	[1..1]	Text		428
	CreationDateTime <CreDtTm>	[1..1]	DateTime		428
	InitiatingParty <InitgPty>	[1..1]	±		428
	RecipientParty <RcptPty>	[0..1]	±		429
	Traceability <Tracblt>	[0..*]	±		430

14.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.

CodeName	Name	Definition
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

14.3.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

14.3.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

14.3.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

14.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

14.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

14.3.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

14.3.2 Reject <Rjct>

Presence: [1..1]

Definition: Information related to the reject.

Reject <Rjct> contains the following **AcceptorRejection2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RejectReason <RjctRsn>	[1..1]	CodeSet		431
	AdditionalInformation <AddtlInf>	[0..1]	Text		431
	MessageInError <MsgInErr>	[0..1]	Binary		431

14.3.2.1 RejectReason <RjctRsn>

Presence: [1..1]

Definition: Reject reason of the request or the advice.

Datatype: "RejectReason1Code" on page 903

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.

14.3.2.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information related to the reject of the exchange.

Datatype: "Max500Text" on page 930

14.3.2.3 MessageInError <MsgInErr>

Presence: [0..1]

Definition: Original request that caused the recipient party to reject it.

Datatype: "Max100KBinary" on page 861

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SaleToPOIMessageStatusRequestV02

15.1 MessageDefinition Functionality

The SaleToPOIMessageStatusRequest message is sent by a sale system when the sale system wants to know the status of previous message that has not be answered.

Outline

The SaleToPOIMessageStatusRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Set of characteristics related to the transfer of the request.
- B. StatusRequest
 - Information related to a status request.
- C. SecurityTrailer
 - Trailer of the message containing a MAC or a digital signature.

15.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIMsgStsReq>	[1..1]			
	Header <Hdr>	[1..1]			434
	MessageFunction <MsgFctn>	[1..1]	CodeSet		434
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		435
	Exchangeldentification <Xchgld>	[1..1]	Text		435
	CreationDateTime <CreDtTm>	[1..1]	DateTime		436
	InitiatingParty <InitgPty>	[1..1]	±		436
	RecipientParty <RcptPty>	[0..1]	±		436
	Traceability <Tracblt>	[0..*]	±		437
	StatusRequest <StsReq>	[1..1]			437
	Environment <Envt>	[1..1]	±		438
	Context <Cntxt>	[1..1]	±		444
	MessageStatusRequestData <MsgStsReqData>	[1..1]			447
	Exchangeldentification <Xchgld>	[1..1]	Text		447
	InitiatingParty <InitgPty>	[1..1]	±		447
	ReceiptReprintFlag <RctRprntFlg>	[0..1]	Indicator		448
	DocumentQualifier <DocQlfr>	[0..2]	CodeSet		448
	SupplementaryData <SplmtryData>	[0..*]	±	C5	449
	SecurityTrailer <SctyTrlr>	[0..1]	±		449

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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

15.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

15.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		434
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		435
	ExchangeIdentification <XchgId>	[1..1]	Text		435
	CreationDateTime <CreDtTm>	[1..1]	DateTime		436
	InitiatingParty <InitgPty>	[1..1]	±		436
	RecipientParty <RcptPty>	[0..1]	±		436
	Traceability <Tracblt>	[0..*]	±		437

15.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or

CodeName	Name	Definition
		software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

15.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

15.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

15.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

15.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

15.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

15.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

15.4.2 StatusRequest <StsReq>

Presence: [1..1]

Definition: Information related to a status request.

StatusRequest <StsReq> contains the following **MessageStatusRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]	±		438
	Context <Cntxt>	[1..1]	±		444
	MessageStatusRequestData <MsgStsReqData>	[1..1]			447
	ExchangeIdentification <XchgId>	[1..1]	Text		447
	InitiatingParty <InitgPty>	[1..1]	±		447
	ReceiptReprintFlag <RctRprntFlg>	[0..1]	Indicator		448
	DocumentQualifier <DocQlfr>	[0..2]	CodeSet		448
	SupplementaryData <SplmtryData>	[0..*]	±	C5	449

15.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

15.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

15.4.2.3 MessageStatusRequestData <MsgStsReqData>

Presence: [1..1]

Definition: Identification of the previous exchange.

MessageStatusRequestData <MsgStsReqData> contains the following **MessageStatusRequestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ExchangeIdentification <XchgId>	[1..1]	Text		447
	InitiatingParty <InitgPty>	[1..1]	±		447
	ReceiptReprintFlag <RctRprntFlg>	[0..1]	Indicator		448
	DocumentQualifier <DocQlfr>	[0..2]	CodeSet		448

15.4.2.3.1 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Transaction identification.

Datatype: "Max35Text" on page 929

15.4.2.3.2 InitiatingParty <InitgPty>

Presence: [1..1]

Definition: Initiating Party information.

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

15.4.2.3.3 ReceiptReprintFlag <RctRprntFlg>

Presence: [0..1]

Definition: Request to reprint the POI receipt(s).

Datatype: One of the following values must be used (see "[TrueFalseIndicator](#)" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

15.4.2.3.4 DocumentQualifier <DocQlfr>

Presence: [0..2]

Definition: Customer or Cashier Receipt.

Datatype: "[DocumentType7Code](#)" on page 887

CodeName	Name	Definition
JNRL	Journal	When the POI or the Sale System wants to store a message on the journal printer or electronic journal of the Sale Terminal (it is sometimes a Sale Logging/Journal Printer).
CRCP	CustomerReceipt	When the Sale System requires the POI system to print the Customer receipt.

CodeName	Name	Definition
HRCP	CashierReceipt	When the Sale system print the Cashier copy of the Payment receipt.
SRCP	SaleReceipt	When the Sale System requires the POI system to print the Sale receipt.
RPIN	RelatedPaymentInstruction	Document is a linked payment instruction to which the current payment instruction is related, for example, in a cover scenario.
VCHR	Voucher	Document is an electronic payment document.

15.4.2.4 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "[SupplementaryData1](#)" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

15.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

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SaleToPOIMessageStatusResponseV02

16.1 MessageDefinition Functionality

The SaleToPOIMessageStatusResponse message is sent by a POI System to respond to the sale system at a previous message status request.

Outline

The SaleToPOIMessageStatusResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Set of characteristics related to the transfer of the request.
- B. StatusResponse
 - Information related to the response of a status request.
- C. SecurityTrailer
 - Trailer of the message containing a MAC or a digital signature.

16.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIMsgStsRspn>	[1..1]			
	Header <Hdr>	[1..1]			455
	MessageFunction <MsgFctn>	[1..1]	CodeSet		455
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		456
	ExchangeIdentification <Xchgld>	[1..1]	Text		456
	CreationDateTime <CreDtTm>	[1..1]	DateTime		457
	InitiatingParty <InitgPty>	[1..1]	±		457
	RecipientParty <RcptPty>	[0..1]	±		457
	Traceability <Tracblt>	[0..*]	±		458
	StatusResponse <StsRspn>	[1..1]			458
	Environment <Envt>	[1..1]	±		462
	Context <Cntxt>	[1..1]	±		468
	MessageStatusResponseData <MsgStsRspnData>	[1..1]			471
	ExchangeIdentification <Xchgld>	[1..1]	Text		475
	InitiatingParty <InitgPty>	[1..1]	±		475
	TransactionResponse <TxRspn>	[1..1]	±		475
	RepeatedLoyaltyResponse <RepeatdLltyRspn>	[0..1]			476
	SaleTransactionIdentification <SaleTxld>	[1..1]	±		477
	POITransactionIdentification <POITxld>	[1..1]	±		477
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		477
	Result <Rslt>	[0..*]			477
	Account <Acct>	[1..1]	±		478
	Amount <Amt>	[0..1]			479
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479
	ServerData <SvrData>	[0..1]			479
	LoyaltyServerIdentification <LltySvrld>	[0..1]	Text		480
	ApprovalCode <ApprvlCd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LltyTxld>	[0..1]	±		480

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		480
	Rebates <Rbts>	[0..1]			480
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLbl>	[0..1]	Text		481
	SaleItemRebate <SaleitmRbt>	[0..*]			481
	SaleItem <Saleitm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482
	RepeatedPaymentResponse <RepeatdPmtRspn>	[0..1]			482
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		483
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		484
	POITransactionIdentification <POITxId>	[1..1]	±		484
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		484
	IssuerReferenceData <IssrRefData>	[0..1]	Text		484
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		484
	PaymentReceipt <PmtRct>	[0..*]	±		487
	LoyaltyResult <LtyRslt>	[0..*]			487
	Account <Acct>	[1..1]	±		488
	Amount <Amt>	[0..1]			489
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489
	ServerData <SvrData>	[0..1]			489
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvlCd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490
	Rebates <Rbts>	[0..1]			490
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLbl>	[0..1]	Text		491
	SaleItemRebate <SaleitmRbt>	[0..*]			491
	SaleItem <Saleitm>	[1..1]	±		491

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	RebateLabel <RbtLbl>	[0..1]	Text		492
	CustomerOrder <CstmrOrd>	[0..*]	±		492
	RepeatedReversalResponse <RepeatdRvslRspn>	[0..1]			493
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		493
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		494
	POITransactionIdentification <POITxId>	[1..1]	±		494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		494
	IssuerReferenceData <IssrRefData>	[0..1]	Text		494
	ReversalTransactionResult <RvslTxRslt>	[1..1]			494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		495
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		495
	CustomerOrder <CstmrOrd>	[0..*]	±		498
	ReversedAmount <RvslAmt>	[0..1]	Amount		499
	Receipt <Rct>	[0..*]	±		499
	RepeatedStoredValueResponse <RepeatdStordValRspn>	[0..1]			499
	POITransactionIdentification <POITxId>	[1..1]	±		500
	Result <Rslt>	[0..*]			501
	Provider <Prvdr>	[0..1]	Text		501
	TransactionType <TxTp>	[1..1]	CodeSet		501
	AccountIdentification <AcctId>	[0..1]			502
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		505

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	ProductCode <PdctCd>	[0..1]	Text		508
	EANUPC <EANUPC>	[0..1]	Text		508
	ItemAmount <ItmAmt>	[0..1]	Amount		508
	Currency <Ccy>	[0..1]	CodeSet	C1	508
	HostTransactionIdentification <HstTxId>	[0..1]	±		509
	Receipt <Rct>	[0..*]	±		509
	RepeatedCardAcquisitionResponse <RepeatdCardAcqstnRspn>	[0..1]			509
	POITransactionIdentification <POITxId>	[1..1]	±		510
	PaymentBrand <PmtBrnd>	[0..*]	Text		510
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	510
	LoyaltyAccount <LtyAcct>	[0..*]	±		510
	CustomerOrder <CstmrOrd>	[0..*]	±		511
	RepeatedSendApplicationProtocolDataUnitCardReaderResponse <RepeatdSndApplPrtcolDataUnitCardRdrRspn>	[0..1]			511
	Data <Data>	[0..1]	Binary		512
	CardStatus <CardSts>	[1..1]	Binary		512
	Response <Rspn>	[1..1]	±		512
	SupplementaryData <SplmtryData>	[0..*]	±	C5	512
	SecurityTrailer <SctyTrlr>	[0..1]	±		513

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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

C7 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: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		455
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		456
	ExchangeIdentification <XchgId>	[1..1]	Text		456
	CreationDateTime <CreDtTm>	[1..1]	DateTime		457
	InitiatingParty <InitgPty>	[1..1]	±		457
	RecipientParty <RcptPty>	[0..1]	±		457
	Traceability <Tracblt>	[0..*]	±		458

16.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or

CodeName	Name	Definition
		software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

16.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

16.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

16.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

16.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

16.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

16.4.1.7 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 elements (see "Traceability8" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

16.4.2 StatusResponse <StsRspn>

Presence: [1..1]

Definition: Information related to the response of a status request.

StatusResponse <StsRspn> contains the following **MessageStatusResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envnt>	[1..1]	±		462
	Context <Cntxt>	[1..1]	±		468
	MessageStatusResponseData <MsgStsRspnData>	[1..1]			471
	ExchangeIdentification <Xchgld>	[1..1]	Text		475
	InitiatingParty <InitgPty>	[1..1]	±		475
	TransactionResponse <TxRspn>	[1..1]	±		475
	RepeatedLoyaltyResponse <RepeatdLltyRspn>	[0..1]			476
	SaleTransactionIdentification <SaleTxld>	[1..1]	±		477
	POITransactionIdentification <POITxld>	[1..1]	±		477
	POIReconciliationIdentification <POIRcncltnld>	[0..1]	Text		477
	Result <Rslt>	[0..*]			477
	Account <Acct>	[1..1]	±		478
	Amount <Amt>	[0..1]			479
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479
	ServerData <SvrData>	[0..1]			479
	LoyaltyServerIdentification <LltySvrld>	[0..1]	Text		480
	ApprovalCode <ApprvICd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LltyTxld>	[0..1]	±		480
	HostReconciliationIdentification <HstRcncltnld>	[0..1]	Text		480
	Rebates <Rbts>	[0..1]			480
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLabl>	[0..1]	Text		481
	SaleItemRebate <SaleitmRbt>	[0..*]			481
	SaleItem <Saleitm>	[1..1]	±		481
	RebateLabel <RbtLabl>	[0..1]	Text		482
	RepeatedPaymentResponse <RepeatdPmtRspn>	[0..1]			482
	SaleTransactionIdentification <SaleTxld>	[1..1]	±		483
	SaleReferenceIdentification <SaleRefld>	[0..1]	Text		484
	POITransactionIdentification <POITxld>	[1..1]	±		484

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		484
	IssuerReferenceData <IssrRefData>	[0..1]	Text		484
	RetailerPaymentResult <RtlrPmtRsIt>	[1..1]	±		484
	PaymentReceipt <PmtRct>	[0..*]	±		487
	LoyaltyResult <LltyRsIt>	[0..*]			487
	Account <Acct>	[1..1]	±		488
	Amount <Amt>	[0..1]			489
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489
	ServerData <SvrData>	[0..1]			489
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvICd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490
	Rebates <Rbts>	[0..1]			490
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLabl>	[0..1]	Text		491
	SaleItemRebate <SaleItmRbt>	[0..*]			491
	SaleItem <SaleItm>	[1..1]	±		491
	RebateLabel <RbtLabl>	[0..1]	Text		492
	CustomerOrder <CstmrOrd>	[0..*]	±		492
	RepeatedReversalResponse <RepeatdRvsIRspn>	[0..1]			493
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		493
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		494
	POITransactionIdentification <POITxId>	[1..1]	±		494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		494
	IssuerReferenceData <IssrRefData>	[0..1]	Text		494
	ReversalTransactionResult <RvsITxRsIt>	[1..1]			494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		495
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		495

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..*]	±		498
	ReversedAmount <RvsdAmt>	[0..1]	Amount		499
	Receipt <Rct>	[0..*]	±		499
	RepeatedStoredValueResponse <RpeatdStordValRspn>	[0..1]			499
	POITransactionIdentification <POITxId>	[1..1]	±		500
	Result <Rslt>	[0..*]			501
	Provider <Prvdr>	[0..1]	Text		501
	TransactionType <TxTp>	[1..1]	CodeSet		501
	AccountIdentification <AcctId>	[0..1]			502
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		505
	ProductCode <PdctCd>	[0..1]	Text		508
	EANUPC <EANUPC>	[0..1]	Text		508
	ItemAmount <ItmAmt>	[0..1]	Amount		508
	Currency <Ccy>	[0..1]	CodeSet	C1	508
	HostTransactionIdentification <HstTxId>	[0..1]	±		509
	Receipt <Rct>	[0..*]	±		509
	RepeatedCardAcquisitionResponse <RpeatdCardAcqstnRspn>	[0..1]			509
	POITransactionIdentification <POITxId>	[1..1]	±		510
	PaymentBrand <PmtBrnd>	[0..*]	Text		510
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	510
	LoyaltyAccount <LtyAcct>	[0..*]	±		510

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrder <CstmrOrd>	[0..*]	±		511
	RepeatedSendApplicationProtocolDataUnitCardReaderResponse <RepeatdSndAppPrtcolDataUnitCardRdrRspn>	[0..1]			511
	Data <Data>	[0..1]	Binary		512
	CardStatus <CardSts>	[1..1]	Binary		512
	Response <Rspn>	[1..1]	±		512
	SupplementaryData <SplmtryData>	[0..*]	±	C5	512

16.4.2.1 Environment <Env>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

16.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

16.4.2.3 MessageStatusResponseData <MsgStsRspnData>

Presence: [1..1]

Definition: Content of the Message status Response.

MessageStatusResponseData <MsgStsRspnData> contains the following
MessageStatusResponseData3 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ExchangeIdentification <XchgId>	[1..1]	Text		475
	InitiatingParty <InitgPty>	[1..1]	±		475
	TransactionResponse <TxRspn>	[1..1]	±		475
	RepeatedLoyaltyResponse <RepeatdLtyRspn>	[0..1]			476
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		477
	POITransactionIdentification <POITxId>	[1..1]	±		477
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		477
	Result <Rslt>	[0..*]			477
	Account <Acct>	[1..1]	±		478
	Amount <Amt>	[0..1]			479
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479
	ServerData <SvrData>	[0..1]			479
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		480
	ApprovalCode <ApprvICd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		480
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		480
	Rebates <Rbts>	[0..1]			480
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLbl>	[0..1]	Text		481
	SaleItemRebate <SaleItmRbt>	[0..*]			481
	SaleItem <SaleItm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482
	RepeatedPaymentResponse <RepeatdPmtRspn>	[0..1]			482
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		483
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		484
	POITransactionIdentification <POITxId>	[1..1]	±		484
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		484
	IssuerReferenceData <IssrRefData>	[0..1]	Text		484

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		484
	PaymentReceipt <PmtRct>	[0..*]	±		487
	LoyaltyResult <LltyRslt>	[0..*]			487
	Account <Acct>	[1..1]	±		488
	Amount <Amt>	[0..1]			489
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489
	ServerData <SvrData>	[0..1]			489
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvlCd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490
	Rebates <Rbts>	[0..1]			490
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLbl>	[0..1]	Text		491
	SaleItemRebate <SaleItmRbt>	[0..*]			491
	SaleItem <SaleItm>	[1..1]	±		491
	RebateLabel <RbtLbl>	[0..1]	Text		492
	CustomerOrder <CstmrOrdr>	[0..*]	±		492
	RepeatedReversalResponse <RpeatdRvslRspn>	[0..1]			493
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		493
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		494
	POITransactionIdentification <POITxId>	[1..1]	±		494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		494
	IssuerReferenceData <IssrRefData>	[0..1]	Text		494
	ReversalTransactionResult <RvslTxRslt>	[1..1]			494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		495
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		495
	CustomerOrder <CstmrOrdr>	[0..*]	±		498
	ReversedAmount <RvsdAmt>	[0..1]	Amount		499

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Receipt <Rct>	[0..*]	±		499
	RepeatedStoredValueResponse <RepeatdStordValRspn>	[0..1]			499
	POITransactionIdentification <POITxId>	[1..1]	±		500
	Result <Rslt>	[0..*]			501
	Provider <Prvdr>	[0..1]	Text		501
	TransactionType <TxTp>	[1..1]	CodeSet		501
	AccountIdentification <AcctId>	[0..1]			502
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		505
	ProductCode <PdctCd>	[0..1]	Text		508
	EANUPC <EANUPC>	[0..1]	Text		508
	ItemAmount <ItmAmt>	[0..1]	Amount		508
	Currency <Ccy>	[0..1]	CodeSet	C1	508
	HostTransactionIdentification <HstTxId>	[0..1]	±		509
	Receipt <Rct>	[0..*]	±		509
	RepeatedCardAcquisitionResponse <RepeatdCardAcqstnRspn>	[0..1]			509
	POITransactionIdentification <POITxId>	[1..1]	±		510
	PaymentBrand <PmtBrnd>	[0..*]	Text		510
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	510
	LoyaltyAccount <LltyAcct>	[0..*]	±		510
	CustomerOrder <CstmrOrd>	[0..*]	±		511

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RepeatedSendApplicationProtocolDataUnitCardReaderResponse <RepeatdSndApplPrtcolDataUnitCardRdrRspn>	[0..1]			511
	Data <Data>	[0..1]	Binary		512
	CardStatus <CardSts>	[1..1]	Binary		512

16.4.2.3.1 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Identification of the requested previous message.

Datatype: "Max35Text" on page 929

16.4.2.3.2 InitiatingParty <InitgPty>

Presence: [1..1]

Definition: Party that has initiated the previous message.

InitiatingParty <InitgPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

16.4.2.3.3 TransactionResponse <TxRspn>

Presence: [1..1]

Definition: Specific response of the Repeated Message sent back by the POI System.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

16.4.2.3.4 RepeatedLoyaltyResponse <RepeatdLltyRspn>

Presence: [0..1]

Definition: Content of the requested Loyalty Message Response.

RepeatedLoyaltyResponse <RepeatdLltyRspn> contains the following **LoyaltyResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		477
	POITransactionIdentification <POITxId>	[1..1]	±		477
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		477
	Result <Rslt>	[0..*]			477
	Account <Acct>	[1..1]	±		478
	Amount <Amt>	[0..1]			479
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479
	ServerData <SvrData>	[0..1]			479
	LoyaltyServerIdentification <LltySvrlId>	[0..1]	Text		480
	ApprovalCode <ApprvlCd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		480
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		480
	Rebates <Rbts>	[0..1]			480
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLbl>	[0..1]	Text		481
	SaleItemRebate <SaleItmRbt>	[0..*]			481
	SaleItem <SaleItm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482

16.4.2.3.4.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.4.2 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.4.3 POIRecconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: ["Max35Text"](#) on page 929

16.4.2.3.4.4 Result <Rslt>

Presence: [0..*]

Definition: Data related to the result of a processed loyalty transaction.

Result <Rslt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		478
	Amount <Amt>	[0..1]			479
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479
	ServerData <SvrData>	[0..1]			479
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		480
	ApprovalCode <ApprvlCd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		480
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		480
	Rebates <Rbts>	[0..1]			480
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLbl>	[0..1]	Text		481
	SaleItemRebate <SaleItmRbt>	[0..*]			481
	SaleItem <SaleItm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482

16.4.2.3.4.4.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

16.4.2.3.4.4.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		479
	Currency <Ccy>	[0..1]	CodeSet	C1	479
	Amount <Amt>	[1..1]	Amount		479

16.4.2.3.4.4.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

16.4.2.3.4.4.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

16.4.2.3.4.4.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.4.4.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		480
	ApprovalCode <ApprvICd>	[0..1]	Text		480
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		480
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		480

16.4.2.3.4.4.3.1 LoyaltyServerIdentification <LtySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

16.4.2.3.4.4.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

16.4.2.3.4.4.3.3 LoyaltyTransactionIdentification <LtyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.4.4.3.4 HostReconciliationIdentification <HstRcncltnId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

16.4.2.3.4.4.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		481
	RebateLabel <RbtLbl>	[0..1]	Text		481
	SaleItemRebate <SaleitmRbt>	[0..*]			481
	SaleItem <Saleitm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482

16.4.2.3.4.4.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.4.4.4.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

16.4.2.3.4.4.4.3 SaleItemRebate <SaleitmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleitmRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		481
	RebateLabel <RbtLbl>	[0..1]	Text		482

16.4.2.3.4.4.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

16.4.2.3.4.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

16.4.2.3.5 RepeatedPaymentResponse <RepeatdPmtRspn>

Presence: [0..1]

Definition: Content of the requested Payment Message Response.

RepeatedPaymentResponse <RpeatdPmtRspn> contains the following **PaymentResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		483
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		484
	POITransactionIdentification <POITxId>	[1..1]	±		484
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		484
	IssuerReferenceData <IssrRefData>	[0..1]	Text		484
	RetailerPaymentResult <RtlrPmtRslt>	[1..1]	±		484
	PaymentReceipt <PmtRct>	[0..*]	±		487
	LoyaltyResult <LltyRslt>	[0..*]			487
	Account <Acct>	[1..1]	±		488
	Amount <Amt>	[0..1]			489
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489
	ServerData <SvrData>	[0..1]			489
	LoyaltyServerIdentification <LltySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvlCd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LltyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490
	Rebates <Rbts>	[0..1]			490
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLabl>	[0..1]	Text		491
	SaleItemRebate <SaleItmRbt>	[0..*]			491
	SaleItem <SaleItm>	[1..1]	±		491
	RebateLabel <RbtLabl>	[0..1]	Text		492
	CustomerOrder <CstmrOrdr>	[0..*]	±		492

16.4.2.3.5.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.5.2 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: "Max35Text" on page 929

16.4.2.3.5.3 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.5.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: "Max35Text" on page 929

16.4.2.3.5.5 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: "Max140Text" on page 927

16.4.2.3.5.6 RetailerPaymentResult <RtlrPmtRslt>

Presence: [1..1]

Definition: Data related to the result of a processed payment transaction.

RetailerPaymentResult <RtlrPmtRslt> contains the following elements (see
"RetailerPaymentResult2" on page 650 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		653
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		654
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		654
	RequestedTransaction <ReqdTxx>	[0..1]	±		655
	TransactionResponse <TxRspn>	[0..1]			658
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrtctdBal>	[0..1]	±		669
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgtAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <Dclrtndtls>	[0..*]	±		677
	CustomerOrder <CstmrOrd>	[0..*]	±		677
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			678
	ImageFormat <ImgFrmt>	[1..1]	Text		678
	ImageData <ImgData>	[0..1]	Binary		678
	ImageReference <ImgRef>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679
	ProtectedCapturedSignature <PrtctdCaptrdSgntr>	[0..1]	±		679
	MerchantOverrideFlag <MrchntOvrddFlg>	[0..1]	Indicator		679
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	679
	OnlineFlag <OnlnFlg>	[0..1]	Indicator		679

16.4.2.3.5.7 PaymentReceipt <PmtRct>

Presence: [0..*]

Definition: Customer or Merchant payment receipt.

PaymentReceipt <PmtRct> contains the following elements (see "[PaymentReceipt2](#)" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

16.4.2.3.5.8 LoyaltyResult <LltyRslt>

Presence: [0..*]

Definition: Data related to the result of a processed loyalty transaction.

LoyaltyResult <LtyRslt> contains the following **LoyaltyResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Account <Acct>	[1..1]	±		488
	Amount <Amt>	[0..1]			489
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489
	ServerData <SvrData>	[0..1]			489
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvlCd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490
	Rebates <Rbts>	[0..1]			490
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLbl>	[0..1]	Text		491
	SaleItemRebate <SaleItmRbt>	[0..*]			491
	SaleItem <SaleItm>	[1..1]	±		491
	RebateLabel <RbtLbl>	[0..1]	Text		492

16.4.2.3.5.8.1 Account <Acct>

Presence: [1..1]

Definition: Account managing the Loyalty.

Account <Acct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

16.4.2.3.5.8.2 Amount <Amt>

Presence: [0..1]

Definition: Amount.

Amount <Amt> contains the following **LoyaltyAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Unit <Unit>	[0..1]	CodeSet		489
	Currency <Ccy>	[0..1]	CodeSet	C1	489
	Amount <Amt>	[1..1]	Amount		489

16.4.2.3.5.8.2.1 Unit <Unit>

Presence: [0..1]

Definition: Unit type for the amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

16.4.2.3.5.8.2.2 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the amount is Unit is Monetary.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

16.4.2.3.5.8.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.5.8.3 ServerData <SvrData>

Presence: [0..1]

Definition: Data sent by the Loyalty server.

ServerData <SvrData> contains the following **LoyaltyServerData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyServerIdentification <LtySvrId>	[0..1]	Text		490
	ApprovalCode <ApprvICd>	[0..1]	Text		490
	LoyaltyTransactionIdentification <LtyTxId>	[0..1]	±		490
	HostReconciliationIdentification <HstRcncltnId>	[0..1]	Text		490

16.4.2.3.5.8.3.1 LoyaltyServerIdentification <LtySvrId>

Presence: [0..1]

Definition: Identification of the loyalty Server.

Datatype: "Max35Text" on page 929

16.4.2.3.5.8.3.2 ApprovalCode <ApprvICd>

Presence: [0..1]

Definition: Approval code assigned to a loyalty transaction by the Server.

Datatype: "Min6Max8Text" on page 932

16.4.2.3.5.8.3.3 LoyaltyTransactionIdentification <LtyTxId>

Presence: [0..1]

Definition: Identification of the Loyalty transaction in an unambiguous way.

LoyaltyTransactionIdentification <LtyTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.5.8.3.4 HostReconciliationIdentification <HstRcncltnId>

Presence: [0..1]

Definition: Identifier of a reconciliation period with a payment or loyalty host.

Datatype: "Max35Text" on page 929

16.4.2.3.5.8.4 Rebates <Rbts>

Presence: [0..1]

Definition: Rebate information.

Rebates <Rbts> contains the following **LoyaltyRebates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalRebate <TtlRbt>	[0..1]	Amount		491
	RebateLabel <RbtLabl>	[0..1]	Text		491
	SaleItemRebate <SaleitmRbt>	[0..*]			491
	SaleItem <Saleitm>	[1..1]	±		491
	RebateLabel <RbtLabl>	[0..1]	Text		492

16.4.2.3.5.8.4.1 TotalRebate <TtlRbt>

Presence: [0..1]

Definition: The global awarded amount that is not attached to an item.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.5.8.4.2 RebateLabel <RbtLabl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

16.4.2.3.5.8.4.3 SaleItemRebate <SaleitmRbt>

Presence: [0..*]

Definition: Amount of the payment transaction related to the Loyalty.

SaleItemRebate <SaleitmRbt> contains the following **SaleItemRebate1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleItem <Saleitm>	[1..1]	±		491
	RebateLabel <RbtLabl>	[0..1]	Text		492

16.4.2.3.5.8.4.3.1 SaleItem <Saleitm>

Presence: [1..1]

Definition: Data of the Sale item.

SaleItem <Saleitm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

16.4.2.3.5.8.4.3.2 RebateLabel <RbtLbl>

Presence: [0..1]

Definition: Short text to qualify a rebate on an line item.

Datatype: "Max35Text" on page 929

16.4.2.3.5.9 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrd> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

16.4.2.3.6 RepeatedReversalResponse <RpeatdRvslRspn>

Presence: [0..1]

Definition: Content of the requested Reversal Message Response.

RepeatedReversalResponse <RpeatdRvslRspn> contains the following **ReversalResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleTransactionIdentification <SaleTxId>	[1..1]	±		493
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		494
	POITransactionIdentification <POITxId>	[1..1]	±		494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		494
	IssuerReferenceData <IssrRefData>	[0..1]	Text		494
	ReversalTransactionResult <RvslTxRslt>	[1..1]			494
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		495
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		495
	CustomerOrder <CstmrOrd>	[0..*]	±		498
	ReversedAmount <RvsdAmt>	[0..1]	Amount		499
	Receipt <Rct>	[0..*]	±		499

16.4.2.3.6.1 SaleTransactionIdentification <SaleTxId>

Presence: [1..1]

Definition: Sale System identification of the transaction in an unambiguous way.

SaleTransactionIdentification <SaleTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.6.2 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: "Max35Text" on page 929

16.4.2.3.6.3 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: POI identification of the transaction in an unambiguous way.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.6.4 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: Unique identification of the reconciliation period between the acceptor and the acquirer.

Datatype: "Max35Text" on page 929

16.4.2.3.6.5 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: "Max35Text" on page 929

16.4.2.3.6.6 ReversalTransactionResult <RvsITxRsIt>

Presence: [1..1]

Definition: Result of reversal transaction.

ReversalTransactionResult <RvsITxRsIt> contains the following **RetailerReversalResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POIReconciliationIdentification <POIRcncltnId>	[0..1]	Text		495
	OriginalPaymentTransaction <OrgnlPmtTx>	[0..1]	±		495
	CustomerOrder <CstmrOrd>	[0..*]	±		498

16.4.2.3.6.6.1 POIReconciliationIdentification <POIRcncltnId>

Presence: [0..1]

Definition: POI reconciliation identification.

Datatype: "Max35Text" on page 929

16.4.2.3.6.6.2 OriginalPaymentTransaction <OrgnlPmtTx>

Presence: [0..1]

Definition: Original Transaction if any linked to this reversal.

OriginalPaymentTransaction <OrgnlPmtTx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItm>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

16.4.2.3.6.6.3 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Updated Customer order list after reversal.

CustomerOrder <CstmrOrdr> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrlid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefld>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

16.4.2.3.6.7 ReversedAmount <RvsdAmt>

Presence: [0..1]

Definition: Amount that have been reverse.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.6.8 Receipt <Rct>

Presence: [0..*]

Definition: Various receipts linked to the reversal.

Receipt <Rct> contains the following elements (see "PaymentReceipt2" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

16.4.2.3.7 RepeatedStoredValueResponse <RpeatdStordValRspn>

Presence: [0..1]

Definition: Content of the requested StoredValue Message Response.

RepeatedStoredValueResponse <RpeatdStordValRspn> contains the following
StoredValueResponse3 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POITransactionIdentification <POITxId>	[1..1]	±		500
	Result <Rslt>	[0..*]			501
	Provider <Prvdr>	[0..1]	Text		501
	TransactionType <TxTp>	[1..1]	CodeSet		501
	AccountIdentification <AcctId>	[0..1]			502
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		505
	ProductCode <PdctCd>	[0..1]	Text		508
	EANUPC <EANUPC>	[0..1]	Text		508
	ItemAmount <ItmAmt>	[0..1]	Amount		508
	Currency <Ccy>	[0..1]	CodeSet	C1	508
	HostTransactionIdentification <HstTxId>	[0..1]	±		509
	Receipt <Rct>	[0..*]	±		509

16.4.2.3.7.1 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: Unique identification of a POI transaction.

POITransactionIdentification <POITxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.7.2 Result <Rslt>

Presence: [0..*]

Definition: Result of loading/reloading a stored value card.

Result <Rslt> contains the following **StoredValueData3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Provider <Prvdr>	[0..1]	Text		501
	TransactionType <TxTp>	[1..1]	CodeSet		501
	AccountIdentification <AcctId>	[0..1]			502
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505
	OriginalPOITransaction <OrgnlPOITx>	[0..1]	±		505
	ProductCode <PdctCd>	[0..1]	Text		508
	EANUPC <EANUPC>	[0..1]	Text		508
	ItemAmount <ItmAmt>	[0..1]	Amount		508
	Currency <Ccy>	[0..1]	CodeSet	C1	508
	HostTransactionIdentification <HstTxId>	[0..1]	±		509

16.4.2.3.7.2.1 Provider <Prvdr>

Presence: [0..1]

Definition: Identification of the provider of the stored value account load/reload.

Datatype: "Max35Text" on page 929

16.4.2.3.7.2.2 TransactionType <TxTp>

Presence: [1..1]

Definition: Identification of operation to proceed on the stored value account or the stored value card.

Datatype: "StoredValueTransactionType2Code" on page 916

CodeName	Name	Definition
ACTV	Activate	Activate the account or the card.
DUPL	Duplicate	Duplicate the code or number provided by the loading or activation.
LOAD	Load	Load the account or the card with money.
RESV	Reserve	Reserve the account (e.g. get an activation code).
REVS	Reverse	Reverse an activation or loading.
ULOA	Unload	Unload the account.
CLOS	CloseAccount	Close the account.
DCTV	Deactivate	Deactivate the account or the card.
OPEN	OpenAccount	Open the account.

16.4.2.3.7.2.3 AccountIdentification <AcctId>

Presence: [0..1]

Definition: Identification of the stored value account or the stored value card.

AccountIdentification <AcctId> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		502
	IdentificationType <IdTp>	[0..1]	CodeSet		503
	Identification <Id>	[0..1]	Text		503
	Brand <Brnd>	[0..1]	Text		504
	Provider <Prvdr>	[0..1]	Text		504
	OwnerName <OwnrNm>	[0..1]	Text		504
	ExpiryDate <XpryDt>	[0..1]	Text		504
	EntryMode <NtryMd>	[0..1]	CodeSet		504
	Currency <Ccy>	[0..1]	CodeSet	C1	505
	Balance <Bal>	[0..1]	Amount		505

16.4.2.3.7.2.3.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.

CodeName	Name	Definition
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

16.4.2.3.7.2.3.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniquelIdentification	A Universal Unique Identification code is set for identification.

16.4.2.3.7.2.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

16.4.2.3.7.2.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

16.4.2.3.7.2.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

16.4.2.3.7.2.3.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

16.4.2.3.7.2.3.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

16.4.2.3.7.2.3.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).

CodeName	Name	Definition
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

16.4.2.3.7.2.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

16.4.2.3.7.2.3.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.7.2.4 OriginalPOITransaction <OrgnIPOITx>

Presence: [0..1]

Definition: Identification of a previous POI transaction.

OriginalPOITransaction <OrgnlPOITx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlldr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkupDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrdr>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

16.4.2.3.7.2.5 ProductCode <PdctCd>

Presence: [0..1]

Definition: Product code of item purchased with the transaction.

Datatype: "Max35Text" on page 929

16.4.2.3.7.2.6 EANUPC <EANUPC>

Presence: [0..1]

Definition: Standard European Article Number Universal Product Code of item purchased with the transaction.

Datatype: "Max35NumericText" on page 929

16.4.2.3.7.2.7 ItemAmount <ItmAmt>

Presence: [0..1]

Definition: Total amount of the item line.

Datatype: "ImpliedCurrencyAndAmount" on page 860

16.4.2.3.7.2.8 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the monetary amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

16.4.2.3.7.2.9 HostTransactionIdentification <HstTxId>

Presence: [0..1]

Definition: Identification of the transaction by the host in charge of the stored value transaction.

HostTransactionIdentification <HstTxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.7.3 Receipt <Rct>

Presence: [0..*]

Definition: Customer or Merchant payment receipt.

Receipt <Rct> contains the following elements (see "PaymentReceipt2" on page 703 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

16.4.2.3.8 RepeatedCardAcquisitionResponse <RpeatdCardAcqstnRspn>

Presence: [0..1]

Definition: Content of the requested CardAcquisition Message Response.

RepeatedCardAcquisitionResponse <RpeatdCardAcqstnRspn> contains the following **CardAcquisitionResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	POITransactionIdentification <POITxId>	[1..1]	±		510
	PaymentBrand <PmtBrnd>	[0..*]	Text		510
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	510
	LoyaltyAccount <LtyAcct>	[0..*]	±		510
	CustomerOrder <CstmrOrd>	[0..*]	±		511

16.4.2.3.8.1 POITransactionIdentification <POITxId>

Presence: [1..1]

Definition: Unique identification of a POI transaction.

POITransactionIdentification <POITxId> contains the following elements (see ["TransactionIdentifier1"](#) on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

16.4.2.3.8.2 PaymentBrand <PmtBrnd>

Presence: [0..*]

Definition: Type of payment card.

Datatype: ["Max35Text"](#) on page 929

16.4.2.3.8.3 CustomerLanguage <CstmrLang>

Presence: [0..1]

Definition: Language used to display messages to the customer.

Impacted by: [C6 "ValidationByTable"](#)

Datatype: ["LanguageCode"](#) on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

16.4.2.3.8.4 LoyaltyAccount <LltyAcct>

Presence: [0..*]

Definition: Loyalty account information.

LoyaltyAccount <LtyAcct> contains the following elements (see "[LoyaltyAccount2](#)" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

16.4.2.3.8.5 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrdr> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

16.4.2.3.9 RepeatedSendApplicationProtocolDataUnitCardReaderResponse <RepeatdSndAppIprtcolDataUnitCardRdrRspn>

Presence: [0..1]

Definition: Content of the requested SendApplicationProtocolDataUnitCardReader Message Response.

RepeatedSendApplicationProtocolDataUnitCardReaderResponse
<RepeatdSndApplPrtcolDataUnitCardRdrRspn> contains the following
DeviceSendApplicationProtocolDataUnitCardReaderResponse1 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Data <Data>	[0..1]	Binary		512
	CardStatus <CardSts>	[1..1]	Binary		512

16.4.2.3.9.1 Data <Data>

Presence: [0..1]

Definition: Class field of the Application Protocol Data Unit command (CLA).

Datatype: "Min1Max256Binary" on page 862

16.4.2.3.9.2 CardStatus <CardSts>

Presence: [1..1]

Definition: Status of a smartcard response to a command (SW1-SW2). Reference: ISO 7816-4.

Datatype: "Min1Max256Binary" on page 862

16.4.2.4 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

16.4.2.5 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

16.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

17 casp.016.001.02 SaleToPOIDeviceRequestV02

17.1 MessageDefinition Functionality

The SaleTOPOIDeviceRequest message is sent by the sale system to POI system to request a device service.

Outline

The SaleToPOIDeviceRequestV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. DeviceRequest
Information related to a device request.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

17.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIDvcReq>	[1..1]			
	Header <Hdr>	[1..1]			518
	MessageFunction <MsgFctn>	[1..1]	CodeSet		518
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		519
	ExchangeIdentification <XchgId>	[1..1]	Text		519
	CreationDateTime <CreDtTm>	[1..1]	DateTime		520
	InitiatingParty <InitgPty>	[1..1]	±		520
	RecipientParty <RcptPty>	[0..1]	±		520
	Traceability <Tracblt>	[0..*]	±		521
	DeviceRequest <DvcReq>	[1..1]			521
	Environment <Envt>	[0..1]	±		524
	Context <Cntxt>	[0..1]	±		530
	ServiceContent <SvcCntt>	[1..1]	CodeSet		533
	DisplayRequest <DispReq>	[0..1]			533
	DisplayOutput <DispOutpt>	[1..*]	±		533
	InputRequest <InptReq>	[0..1]			534
	DisplayOutput <DispOutpt>	[0..1]	±		535
	InputData <InptData>	[1..1]			536
	DeviceType <DvcTp>	[1..1]	CodeSet		537
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		537
	InputCommand <InptCmd>	[1..1]	CodeSet		538
	NotifyCardInputFlag <NtfyCardInptFlg>	[1..1]	Indicator		539
	MaximumInputTime <MaxInptTm>	[0..1]	Quantity		539
	InputText <InptTxt>	[0..1]	±		539
	ImmediateResponseFlag <ImdtRspnFlg>	[0..1]	Indicator		540
	WaitUserValidationFlag <WaitUsrVldtnFlg>	[0..1]	Indicator		540
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		540
	GlobalCorrectionFlag <GblCrrctnFlg>	[0..1]	Indicator		541
	DisableCancelFlag <DsblCclFlg>	[0..1]	Indicator		541
	DisableCorrectFlag <DsblCrrctFlg>	[0..1]	Indicator		541

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	DisableValidFlag <DsbIVldFlg>	[0..1]	Indicator		541
	MenuBackFlag <MenuBckFlg>	[0..1]	Indicator		541
	PrintRequest <PrtReq>	[0..1]			542
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		542
	ResponseMode <RspnMd>	[1..1]	CodeSet		542
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		543
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		543
	OutputContent <OutptCntt>	[1..1]	±		543
	PlaySoundRequest <PlaySoundReq>	[0..1]			544
	ResponseMode <RspnMd>	[0..1]	CodeSet		544
	SoundAction <SoundActn>	[1..1]	CodeSet		545
	SoundVolume <SoundVol>	[0..1]	Rate		545
	SoundContent <SoundCntt>	[0..1]			545
	SoundFormat <SoundFrmt>	[1..1]	CodeSet		545
	Language <Lang>	[0..1]	CodeSet	C6	546
	SoundReference <SoundRef>	[0..1]	Text		546
	Text <Txt>	[0..1]	Text		546
	SecureInputRequest <ScrInptReq>	[0..1]			546
	PINRequestType <PINReqTp>	[1..1]	CodeSet		547
	PINVerificationMethod <PINVrfctnMtd>	[0..1]	Text		547
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		547
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		547
	CardholderPIN <CrhdldrPIN>	[0..1]			548
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		548
	PINFormat <PINFrmt>	[1..1]	CodeSet		548
	AdditionalInput <AddtlInpt>	[0..1]	Text		549
	InitialisationCardReaderRequest <InitlstnCardRdrReq>	[0..1]			549
	WarmResetFlag <WarmRstFlg>	[0..1]	Indicator		549
	ForceEntryMode <ForceNtryMd>	[0..*]	CodeSet		549
	LeaveCardFlag <LeavCardFlg>	[0..1]	Indicator		550
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		550

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	DisplayOutput <DispOutpt>	[0..1]	±		550
	CardReaderAPDURequest <CardRdrAPDUReq>	[0..1]			551
	Class <Clss>	[1..1]	Binary		551
	Instruction <Instr>	[1..1]	Binary		552
	Parameter1 <Param1>	[1..1]	Binary		552
	Parameter2 <Param2>	[1..1]	Binary		552
	Data <Data>	[0..1]	Binary		552
	ExpectedLength <XpctdLngh>	[0..1]	Binary		552
	PowerOffCardReaderRequest <PwrOffCardRdrReq>	[0..1]			552
	PowerOffMaximumWaitingTime <PwrOffMaxWtgTm>	[0..1]	Quantity		552
	DisplayOutput <DispOutpt>	[0..1]	±		553
	TransmissionRequest <TrnsmssnReq>	[0..1]			553
	DestinationAddress <DstnAdr>	[1..1]	±		553
	MaximumTransmissionTime <MaxTrnsmssnTm>	[1..1]	Quantity		554
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		554
	MessageToSend <MsgToSnd>	[1..1]	Binary		554
	InputNotification <InptNtfctn>	[0..1]			554
	ExchangeIdentification <Xchgld>	[1..1]	Text		555
	OutputContent <OutptCntt>	[1..1]	±		555
	SupplementaryData <SplmtryData>	[0..*]	±	C5	555
	SecurityTrailer <SctyTrlr>	[0..1]	±		556

17.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

17.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

17.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		518
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		519
	ExchangeIdentification <XchgId>	[1..1]	Text		519
	CreationDateTime <CreDtTm>	[1..1]	DateTime		520
	InitiatingParty <InitgPty>	[1..1]	±		520
	RecipientParty <RcptPty>	[0..1]	±		520
	Traceability <Tracblt>	[0..*]	±		521

17.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or

CodeName	Name	Definition
		software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

17.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

17.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

17.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

17.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

17.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

17.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

17.4.2 DeviceRequest <DvcReq>

Presence: [1..1]

Definition: Information related to a device request.

DeviceRequest <DvcReq> contains the following **DeviceRequest3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[0..1]	±		524
	Context <Cntxt>	[0..1]	±		530
	ServiceContent <SvcCntt>	[1..1]	CodeSet		533
	DisplayRequest <DispReq>	[0..1]			533
	DisplayOutput <DispOutpt>	[1..*]	±		533
	InputRequest <InptReq>	[0..1]			534
	DisplayOutput <DispOutpt>	[0..1]	±		535
	InputData <InptData>	[1..1]			536
	DeviceType <DvcTp>	[1..1]	CodeSet		537
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		537
	InputCommand <InptCmd>	[1..1]	CodeSet		538
	NotifyCardInputFlag <NtfyCardInptFlg>	[1..1]	Indicator		539
	MaximumInputTime <MaxInptTm>	[0..1]	Quantity		539
	InputText <InptTxt>	[0..1]	±		539
	ImmediateResponseFlag <ImdtRspnFlg>	[0..1]	Indicator		540
	WaitUserValidationFlag <WaitUsrVldtnFlg>	[0..1]	Indicator		540
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		540
	GlobalCorrectionFlag <GblCrrctnFlg>	[0..1]	Indicator		541
	DisableCancelFlag <DsblCclFlg>	[0..1]	Indicator		541
	DisableCorrectFlag <DsblCrrctFlg>	[0..1]	Indicator		541
	DisableValidFlag <DsblVldFlg>	[0..1]	Indicator		541
	MenuBackFlag <MenuBckFlg>	[0..1]	Indicator		541
	PrintRequest <PrtReq>	[0..1]			542
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		542
	ResponseMode <RspnMd>	[1..1]	CodeSet		542
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		543
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		543
	OutputContent <OutptCntt>	[1..1]	±		543
	PlaySoundRequest <PlaySoundReq>	[0..1]			544
	ResponseMode <RspnMd>	[0..1]	CodeSet		544
	SoundAction <SoundActn>	[1..1]	CodeSet		545

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SoundVolume <SoundVol>	[0..1]	Rate		545
	SoundContent <SoundCntt>	[0..1]			545
	SoundFormat <SoundFrmt>	[1..1]	CodeSet		545
	Language <Lang>	[0..1]	CodeSet	C6	546
	SoundReference <SoundRef>	[0..1]	Text		546
	Text <Txt>	[0..1]	Text		546
	SecureInputRequest <ScrInptReq>	[0..1]			546
	PINRequestType <PINReqTp>	[1..1]	CodeSet		547
	PINVerificationMethod <PINVrfctnMtd>	[0..1]	Text		547
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		547
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		547
	CardholderPIN <CrdhldrPIN>	[0..1]			548
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		548
	PINFormat <PINFrmt>	[1..1]	CodeSet		548
	AdditionalInput <AddtlInpt>	[0..1]	Text		549
	InitialisationCardReaderRequest <InitlstnCardRdrReq>	[0..1]			549
	WarmResetFlag <WarmRstFlg>	[0..1]	Indicator		549
	ForceEntryMode <ForceNtryMd>	[0..*]	CodeSet		549
	LeaveCardFlag <LeavCardFlg>	[0..1]	Indicator		550
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		550
	DisplayOutput <DispOutpt>	[0..1]	±		550
	CardReaderAPDURequest <CardRdrAPDUReq>	[0..1]			551
	Class <Cls>	[1..1]	Binary		551
	Instruction <Instr>	[1..1]	Binary		552
	Parameter1 <Param1>	[1..1]	Binary		552
	Parameter2 <Param2>	[1..1]	Binary		552
	Data <Data>	[0..1]	Binary		552
	ExpectedLength <XpctdLngth>	[0..1]	Binary		552
	PowerOffCardReaderRequest <PwrOffCardRdrReq>	[0..1]			552
	PowerOffMaximumWaitingTime <PwrOffMaxWtgTm>	[0..1]	Quantity		552
	DisplayOutput <DispOutpt>	[0..1]	±		553

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransmissionRequest <TrnsmssnReq>	[0..1]			553
	DestinationAddress <DstnAdr>	[1..1]	±		553
	MaximumTransmissionTime <MaxTrnsmssnTm>	[1..1]	Quantity		554
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		554
	MessageToSend <MsgToSnd>	[1..1]	Binary		554
	InputNotification <InptNtfctn>	[0..1]			554
	ExchangeIdentification <XchgId>	[1..1]	Text		555
	OutputContent <OutptCntt>	[1..1]	±		555
	SupplementaryData <SplmtryData>	[0..*]	±	C5	555

17.4.2.1 Environment <Envt>

Presence: [0..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LltyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <Crdhldrld>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <Drvrld>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrldNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

17.4.2.2 Context <Cntxt>

Presence: [0..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AtndncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpptdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegdIdr>	[1..1]	Text		771
	SplitPayment <SpltPmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateImage <MndtImg>	[0..1]	Binary		781

17.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService8Code" on page 912

CodeName	Name	Definition
DDYQ	DeviceDisplayRequest	One System requests the other to display a message for cashier or customer.
DINQ	DeviceInputRequest	One system requests to the other System to get data input.
DPRQ	DevicePrintRequest	One system requests to the other System to print data.
DSOQ	DevicePlaySoundRequest	One system requests to the Other System to play a sound.
DSIQ	DeviceSecureInputRequest	One system requests to the Other System to securely get data input (e.g. for PIN).
DCIQ	DeviceInitialisationCardReaderRequest	Service to send parameters to use when card reader initializes a new communication with the card.
DCAQ	DeviceSendApplicationProtocolDataUnitCardReaderRequest	A service to send commands to a card.
DCPQ	DevicePowerOffCardReaderRequest	The Sale system requests to the POI System to power off the card reader.
DCOQ	DeviceTransmissionMessageRequest	The Sale system requests to the POI System to transmit a message (for instance to a mobile server).
DINO	DeviceInputNotification	One system sends a notification to the POI System to update a input request.

17.4.2.4 DisplayRequest <DispReq>

Presence: [0..1]

Definition: Content of the Display Request message.

DisplayRequest <DispReq> contains the following **DeviceDisplayRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DisplayOutput <DispOutpt>	[1..*]	±		533

17.4.2.4.1 DisplayOutput <DispOutpt>

Presence: [1..*]

Definition: Message to be displayed.

DisplayOutput <DispOutput> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.5 InputRequest <InptReq>

Presence: [0..1]

Definition: Content of the Input Request message.

InputRequest <InptReq> contains the following **DeviceInputRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DisplayOutput <DispOutpt>	[0..1]	±		535
	InputData <InptData>	[1..1]			536
	DeviceType <DvcTp>	[1..1]	CodeSet		537
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		537
	InputCommand <InptCmd>	[1..1]	CodeSet		538
	NotifyCardInputFlag <NtfyCardInptFlg>	[1..1]	Indicator		539
	MaximumInputTime <MaxInptTm>	[0..1]	Quantity		539
	InputText <InptTxt>	[0..1]	±		539
	ImmediateResponseFlag <ImdtRspnFlg>	[0..1]	Indicator		540
	WaitUserValidationFlag <WaitUsrVldtnFlg>	[0..1]	Indicator		540
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		540
	GlobalCorrectionFlag <GblCrrctnFlg>	[0..1]	Indicator		541
	DisableCancelFlag <DsblCclFlg>	[0..1]	Indicator		541
	DisableCorrectFlag <DsblCrrctFlg>	[0..1]	Indicator		541
	DisableValidFlag <DsblVldFlg>	[0..1]	Indicator		541
	MenuBackFlag <MenuBckFlg>	[0..1]	Indicator		541

17.4.2.5.1 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Information to display before input.

DisplayOutput <DispOutput> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBracd>	[0..1]			783
	BarcodeType <BracdTp>	[1..1]	CodeSet		784
	BarcodeValue <BracdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.5.2 InputData <InptData>

Presence: [1..1]

Definition: Information related to an Input request.

InputData <InptData> contains the following **InputData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DeviceType <DvcTp>	[1..1]	CodeSet		537
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		537
	InputCommand <InptCmd>	[1..1]	CodeSet		538
	NotifyCardInputFlag <NtfyCardInptFlg>	[1..1]	Indicator		539
	MaximumInputTime <MaxInptTm>	[0..1]	Quantity		539
	InputText <InptTxt>	[0..1]	±		539
	ImmediateResponseFlag <ImdtRspnFlg>	[0..1]	Indicator		540
	WaitUserValidationFlag <WaitUsrVldtnFlg>	[0..1]	Indicator		540
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		540
	GlobalCorrectionFlag <GblCrrctnFlg>	[0..1]	Indicator		541
	DisableCancelFlag <DsblCclFlg>	[0..1]	Indicator		541
	DisableCorrectFlag <DsblCrrctFlg>	[0..1]	Indicator		541
	DisableValidFlag <DsblVldFlg>	[0..1]	Indicator		541
	MenuBackFlag <MenuBckFlg>	[0..1]	Indicator		541

17.4.2.5.2.1 DeviceType <DvcTp>

Presence: [1..1]

Definition: Type of logical device located on a Sale Terminal or a POI Terminal.

Datatype: "SaleCapabilities2Code" on page 914

CodeName	Name	Definition
CHIN	CashierInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element). The output device attached to this input device is the CashierDisplay device.
CUIN	CustomerInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element).

17.4.2.5.2.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to output to the logical device.

Datatype: "InformationQualify1Code" on page 889

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

17.4.2.5.2.3 InputCommand <InptCmd>

Presence: [1..1]

Definition: Type of requested input.

Datatype: "InputCommand1Code" on page 890

CodeName	Name	Definition
DCSG	DecimalString	Wait for a string of digit characters with a decimal point, the length range could be specified.
DGSG	DigitString	Wait for a string of digit characters.
GAKEY	GetAnyKey	Wait for a key pressed on the Terminal, to be able to read the message displayed on the Terminal.
GCNF	GetConfirmation	Wait for a confirmation Yes (Y) or No (N) on the Sale System. Wait for a confirmation (Valid or Cancel button) on

CodeName	Name	Definition
		the POI Terminal. The result of the command is a Boolean: True or False.
GFKY	GetFunctionKey	Wait for a function key pressed on the Terminal: From POI, Valid, Clear, Correct, Generic Function key number. From Sale, Generic Function key.
GMNE	GetMenuEntry	To choose an entry among a list of entries (all of them are not necessary selectable). The OutputFormat has to be MenuEntry.
PSWD	Password	Request to enter a password with masked characters while typing the password.
SITE	SiteManager	Wait for a confirmation Yes (Y) or No (N) of the Site Manager on the Sale System.
TXSG	TextString	Wait for a string of alphanumeric characters.
HTML	XHTMLText	Wait for a XHTML data.
SIGN	Signature	Request to wait for signature.

17.4.2.5.2.4 NotifyCardInputFlag <NtfyCardInptFlg>

Presence: [1..1]

Definition: Flag of notification of card to be entered in the POI card reader.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.5 MaximumInputTime <MaxInptTm>

Presence: [0..1]

Definition: Maximum input time in seconds.

Datatype: ["Number" on page 926](#)

17.4.2.5.2.6 InputText <InptTxt>

Presence: [0..1]

Definition: Text value set for an input command.

InputText <InptTxt> contains the following elements (see ["ActionMessage7"](#) on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrnd>	[0..1]			783
	BarcodeType <BrndTp>	[1..1]	CodeSet		784
	BarcodeValue <BrndVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.5.2.7 ImmediateResponseFlag <ImdtRspnFlg>

Presence: [0..1]

Definition: Flag to request Immediate response without waiting for the completion of the command.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.8 WaitUserValidationFlag <WaitUsrVldtnFlg>

Presence: [0..1]

Definition: Flag to confirm by the user the entered characters, when the maximum allowed length is reached.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.9 BeepKeyFlag <BeepKeyFlg>

Presence: [0..1]

Definition: Flag to indicate that when the user press a key, a beep has to be generated.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.10 GlobalCorrectionFlag <GblCrrctnFlg>

Presence: [0..1]

Definition: Flag to correct all characters (True) or just the last one (False).

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.11 DisableCancelFlag <DsblCclFlg>

Presence: [0..1]

Definition: Flag to deactivate the "Cancel" function key.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.12 DisableCorrectFlag <DsblCrrctFlg>

Presence: [0..1]

Definition: Flag to deactivate the "Correct" function key.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.13 DisableValidFlag <DsblVldFlg>

Presence: [0..1]

Definition: Flag to disable the "Valid" function key.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.5.2.14 MenuBackFlag <MenuBckFlg>

Presence: [0..1]

Definition: Flag to enable the "Back" function key to go the upper level.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.6 PrintRequest <PrtReq>

Presence: [0..1]

Definition: Content of the Print Request message.

PrintRequest <PrtReq> contains the following **DevicePrintRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		542
	ResponseMode <RspnMd>	[1..1]	CodeSet		542
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		543
	RequiredSignatureFlag <ReqrdSgntrFlg>	[0..1]	Indicator		543
	OutputContent <OutptCntt>	[1..1]	±		543

17.4.2.6.1 DocumentQualifier <DocQlfr>

Presence: [1..1]

Definition: Qualifies the type of document.

Datatype: "DocumentType7Code" on page 887

CodeName	Name	Definition
JNRL	Journal	When the POI or the Sale System wants to store a message on the journal printer or electronic journal of the Sale Terminal (it is sometimes a Sale Logging/Journal Printer).
CRCP	CustomerReceipt	When the Sale System requires the POI system to print the Customer receipt.
HRCP	CashierReceipt	When the Sale system print the Cashier copy of the Payment receipt.
SRCP	SaleReceipt	When the Sale System requires the POI system to print the Sale receipt.
RPIN	RelatedPaymentInstruction	Document is a linked payment instruction to which the current payment instruction is related, for example, in a cover scenario.
VCHR	Voucher	Document is an electronic payment document.

17.4.2.6.2 ResponseMode <RspnMd>

Presence: [1..1]

Definition: Type of awaited response (none, immediate, after printing, after sound).

Datatype: "ResponseMode1Code" on page 904

CodeName	Name	Definition
IMMD	Immediate	The Message Response is immediate, after taking into account the request.

CodeName	Name	Definition
NREQ	NotRequired	The Message Response is not required, except in case of error.
PEND	PrintEnd	The Print Response is required at the end of print.
SEND	SoundEnd	The Sound Response is required at the end of play.

17.4.2.6.3 IntegratedPrintFlag <IntgrtdPrtFlg>

Presence: [0..1]

Definition: Flag that the print is integrated to other prints.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.6.4 RequiredSignatureFlag <ReqrdSgntrFlg>

Presence: [0..1]

Definition: Flag to require a physical signature by the Customer.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.6.5 OutputContent <OutptCntt>

Presence: [1..1]

Definition: Content of the message to print.

OutputContent <OutputCntt> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstr>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutputBrnd>	[0..1]			783
	BarcodeType <BrndTp>	[1..1]	CodeSet		784
	BarcodeValue <BrndVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.7 PlaySoundRequest <PlaySoundReq>

Presence: [0..1]

Definition: Content of the Sound Request message.

PlaySoundRequest <PlaySoundReq> contains the following **DevicePlaySoundRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ResponseMode <RspnMd>	[0..1]	CodeSet		544
	SoundAction <SoundActn>	[1..1]	CodeSet		545
	SoundVolume <SoundVol>	[0..1]	Rate		545
	SoundContent <SoundCntt>	[0..1]			545
	SoundFormat <SoundFrmt>	[1..1]	CodeSet		545
	Language <Lang>	[0..1]	CodeSet	C6	546
	SoundReference <SoundRef>	[0..1]	Text		546
	Text <Txt>	[0..1]	Text		546

17.4.2.7.1 ResponseMode <RspnMd>

Presence: [0..1]

Definition: Message response awaited by the initiator of the Request.

Datatype: "ResponseMode1Code" on page 904

CodeName	Name	Definition
IMMD	Immediate	The Message Response is immediate, after taking into account the request.
NREQ	NotRequired	The Message Response is not required, except in case of error.
PEND	PrintEnd	The Print Response is required at the end of print.
SEND	SoundEnd	The Sound Response is required at the end of play.

17.4.2.7.2 SoundAction <SoundActn>

Presence: [1..1]

Definition: Requested Action: Start to play a sound, Stop to play a sound, Set the default volume.

Datatype: "SoundAction1Code" on page 915

CodeName	Name	Definition
DVOL	SetDefaultVolume	Set the default volume of sounds.
STAS	StartSound	Start the sound as specified in the message.
STOS	StopSound	Stop the sound in progress.

17.4.2.7.3 SoundVolume <SoundVol>

Presence: [0..1]

Definition: Volume of a sound, either in a pourcentage of the maximum volume, or 0 to mute.

Datatype: "PercentageRate" on page 926

17.4.2.7.4 SoundContent <SoundCntt>

Presence: [0..1]

Definition: Content of a sound to play.

SoundContent <SoundCntt> contains the following **SoundContent1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SoundFormat <SoundFrmt>	[1..1]	CodeSet		545
	Language <Lang>	[0..1]	CodeSet	C6	546
	SoundReference <SoundRef>	[0..1]	Text		546
	Text <Txt>	[0..1]	Text		546

17.4.2.7.4.1 SoundFormat <SoundFrmt>

Presence: [1..1]

Definition: Type of sound to play, as a reference to a sound, a reference to a Message, or a Text to read.

Datatype: "SoundFormat1Code" on page 915

CodeName	Name	Definition
MSGR	MessageRef	Reference of a preloaded text to play.
SNDR	SoundRef	Preloaded sound File.
TEXT	Text	Text to play.

17.4.2.7.4.2 Language <Lang>

Presence: [0..1]

Definition: Language of the text to play if Text-To-Speech is used.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

17.4.2.7.4.3 SoundReference <SoundRef>

Presence: [0..1]

Definition: Reference of a predefined message to play (Sound or text file name, URL, etc.).

Datatype: "Max500Text" on page 930

17.4.2.7.4.4 Text <Txt>

Presence: [0..1]

Definition: Content of text message to play (Text-to-Speech).

Datatype: "Max1025Text" on page 927

17.4.2.8 SecureInputRequest <ScrInptReq>

Presence: [0..1]

Definition: Request a secure input for a PIN.

SecureInputRequest <ScrInptReq> contains the following **DeviceSecureInputRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PINRequestType <PINReqTp>	[1..1]	CodeSet		547
	PINVerificationMethod <PINVrfctnMtd>	[0..1]	Text		547
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		547
	BeepKeyFlag <BeepKeyFlg>	[0..1]	Indicator		547
	CardholderPIN <CrdhldrPIN>	[0..1]			548
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		548
	PINFormat <PINFrmt>	[1..1]	CodeSet		548
	AdditionalInput <AddtlInpt>	[0..1]	Text		549

17.4.2.8.1 PINRequestType <PINReqTp>

Presence: [1..1]

Definition: Type of PIN Service.

Datatype: "PINRequestType1Code" on page 899

CodeName	Name	Definition
PIAE	PINAcquisitionEncryption	The cardholder enters the PIN, the POI enciphers the PIN Block and provides it as a result to the Sale System.
PIAV	PINAcquisitionVerification	The Cardholder enters the PIN and the POI verifies it.
PIVO	PINVerifyOnly	The Sale System send a previous keyed PIN and the POI verifies it.

17.4.2.8.2 PINVerificationMethod <PINVrfctnMtd>

Presence: [0..1]

Definition: Identify the PIN verification method and keys.

Datatype: "Max35Text" on page 929

17.4.2.8.3 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Maximum time to wait for the request processing in seconds.

Datatype: "Number" on page 926

17.4.2.8.4 BeepKeyFlag <BeepKeyFlg>

Presence: [0..1]

Definition: Indicates, when the user press a key, if a beep has to be generated.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.8.5 CardholderPIN <CrdhldrPIN>

Presence: [0..1]

Definition: Enciphered PIN and related information.

CardholderPIN <CrdhldrPIN> contains the following **OnLinePIN7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		548
	PINFormat <PINFrmt>	[1..1]	CodeSet		548
	AdditionalInput <AddtlInpt>	[0..1]	Text		549

17.4.2.8.5.1 EncryptedPINBlock <NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see "[ContentInformationType22](#)" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

17.4.2.8.5.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 899

CodeName	Name	Definition
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.

CodeName	Name	Definition
ISO5	ISO5	Alternative PIN format used with AES encryption, conforming to the new ISO SC2 format.

17.4.2.8.5.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 929

17.4.2.9 InitialisationCardReaderRequest <InitlstnCardRdrReq>

Presence: [0..1]

Definition: A service to send parameters to Card Reader to initialize a new communication with a card.

InitialisationCardReaderRequest <InitlstnCardRdrReq> contains the following **DeviceInitialisationCardReaderRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	WarmResetFlag <WarmRstFlg>	[0..1]	Indicator		549
	ForceEntryMode <ForceNtryMd>	[0..*]	CodeSet		549
	LeaveCardFlag <LeavCardFlg>	[0..1]	Indicator		550
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		550
	DisplayOutput <DispOutpt>	[0..1]	±		550

17.4.2.9.1 WarmResetFlag <WarmRstFlg>

Presence: [0..1]

Definition: Flag to request a warm reset on a chip.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.9.2 ForceEntryMode <ForceNtryMd>

Presence: [0..*]

Definition: Payment instrument entry mode requested by the Sale System.

Datatype: "CardDataReading8Code" on page 878

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.

CodeName	Name	Definition
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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

17.4.2.9.3 LeaveCardFlag <LeavCardFlg>

Presence: [0..1]

Definition: Flag to indicate the POI System to keep the card in the reader for a smart card.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

17.4.2.9.4 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Maximum time in seconds that the POI has to wait for a card response.

Datatype: ["Number" on page 926](#)

17.4.2.9.5 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Information to display.

DisplayOutput <DispOutput> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrCdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrCdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.10 CardReaderAPDURequest <CardRdrAPDUReq>

Presence: [0..1]

Definition: Content of the APDU (Application Protocol Data Unit) to send to the Card.

CardReaderAPDURequest <CardRdrAPDUReq> contains the following **DeviceSendApplicationProtocolDataUnitCardReaderRequest1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Class <Clss>	[1..1]	Binary		551
	Instruction <Inst>	[1..1]	Binary		552
	Parameter1 <Param1>	[1..1]	Binary		552
	Parameter2 <Param2>	[1..1]	Binary		552
	Data <Data>	[0..1]	Binary		552
	ExpectedLength <XpctdLngth>	[0..1]	Binary		552

17.4.2.10.1 Class <Clss>

Presence: [1..1]

Definition: Class field of the Application Protocol Data Unit command (CLA).

Datatype: "Min1Max256Binary" on page 862

17.4.2.10.2 Instruction <Instr>

Presence: [1..1]

Definition: Instruction field of the Application Protocol Data Unit command (INS).

Datatype: "Min1Max256Binary" on page 862

17.4.2.10.3 Parameter1 <Param1>

Presence: [1..1]

Definition: Parameter 1 field of the Application Protocol Data Unit command

Datatype: "Min1Max256Binary" on page 862

17.4.2.10.4 Parameter2 <Param2>

Presence: [1..1]

Definition: Parameter 2 field of the Application Protocol Data Unit command

Datatype: "Min1Max256Binary" on page 862

17.4.2.10.5 Data <Data>

Presence: [0..1]

Definition: Data field of the Application Protocol Data Unit command to send including the length.

Datatype: "Min1Max256Binary" on page 862

17.4.2.10.6 ExpectedLength <XpctdLngth>

Presence: [0..1]

Definition: Expected length of the data field of the Application Protocol Data Unit response to the command.

Datatype: "Min1Max256Binary" on page 862

17.4.2.11 PowerOffCardReaderRequest <PwrOffCardRdrReq>

Presence: [0..1]

Definition: Content of the Power Off Card Reader Request message.

PowerOffCardReaderRequest <PwrOffCardRdrReq> contains the following **DevicePoweroffCardReaderRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PowerOffMaximumWaitingTime <PwrOffMaxWtgTm>	[0..1]	Quantity		552
	DisplayOutput <DispOutput>	[0..1]	±		553

17.4.2.11.1 PowerOffMaximumWaitingTime <PwrOffMaxWtgTm>

Presence: [0..1]

Definition: Maximum time to wait for the request processing in seconds.

Datatype: "Number" on page 926

17.4.2.11.2 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Optional message before Power-Off.

DisplayOutput <DispOutpt> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstr>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrnd>	[0..1]			783
	BarcodeType <BrndTp>	[1..1]	CodeSet		784
	BarcodeValue <BrndVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.12 TransmissionRequest <TrnsmssnReq>

Presence: [0..1]

Definition: Content of the Request message to transmit.

TransmissionRequest <TrnsmssnReq> contains the following **DeviceTransmitMessageRequest2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DestinationAddress <DstrnAdr>	[1..1]	±		553
	MaximumTransmissionTime <MaxTrnsmssnTm>	[1..1]	Quantity		554
	MaximumWaitingTime <MaxWtgTm>	[0..1]	Quantity		554
	MessageToSend <MsgToSnd>	[1..1]	Binary		554

17.4.2.12.1 DestinationAddress <DstrnAdr>

Presence: [1..1]

Definition: Transport address.

DestinationAddress <DstnAdr> contains the following elements (see "NetworkParameters7" on page 807 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Address <Adr>	[1..*]			808
	NetworkType <NtwkTp>	[1..1]	CodeSet		808
	AddressValue <AdrVal>	[1..1]	Text		808
	UserName <UsrNm>	[0..1]	Text		808
	AccessCode <AccsCd>	[0..1]	Binary		809
	ServerCertificate <SvrCert>	[0..*]	Binary		809
	ServerCertificateIdentifier <SvrCertIdr>	[0..*]	Binary		809
	ClientCertificate <ClntCert>	[0..*]	Binary		809
	SecurityProfile <SctyPrfl>	[0..1]	Text		809

17.4.2.12.2 MaximumTransmissionTime <MaxTrnsmsnTm>

Presence: [1..1]

Definition: Maximum time in seconds of transmission.

Datatype: "Number" on page 926

17.4.2.12.3 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Defines the timeout to receive an answer.

Datatype: "Number" on page 926

17.4.2.12.4 MessageToSend <MsgToSnd>

Presence: [1..1]

Definition: Content of the message to be transmitted.

Datatype: "Max100KBinary" on page 861

17.4.2.13 InputNotification <InptNtfctn>

Presence: [0..1]

Definition: Content of the Input notification message.

InputNotification <InptNtfctn> contains the following **DeviceInputNotification2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ExchangeIdentification <XchgId>	[1..1]	Text		555
	OutputContent <OutptCntt>	[1..1]	±		555

17.4.2.13.1 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Message main identifier.

Datatype: "Max35Text" on page 929

17.4.2.13.2 OutputContent <OutptCntt>

Presence: [1..1]

Definition: Updated content of the message to display before input.

OutputContent <OutptCntt> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstr>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrnd>	[0..1]			783
	BarcodeType <BrndTp>	[1..1]	CodeSet		784
	BarcodeValue <BrndVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

17.4.2.14 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

17.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

18 casp.017.001.02 SaleToPOIDeviceResponseV02

18.1 MessageDefinition Functionality

The SaleToPOIDeviceResponse message is sent by a POI System to sale system to provide result of a device request.

Outline

The SaleToPOIDeviceResponseV02 MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Set of characteristics related to the transfer of the request.
- B. DeviceResponse
Information related to the response of a device request.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

18.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <SaleToPOIDvcRspn>	[1..1]			
	Header <Hdr>	[1..1]			560
	MessageFunction <MsgFctn>	[1..1]	CodeSet		561
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		561
	ExchangeIdentification <XchgId>	[1..1]	Text		562
	CreationDateTime <CreDtTm>	[1..1]	DateTime		562
	InitiatingParty <InitgPty>	[1..1]	±		562
	RecipientParty <RcptPty>	[0..1]	±		562
	Traceability <Tracblt>	[0..*]	±		563
	DeviceResponse <DvcRspn>	[1..1]			563
	Environment <Envt>	[0..1]	±		565
	Context <Cntxt>	[0..1]	±		571
	ServiceContent <SvcCntt>	[1..1]	CodeSet		574
	DisplayResponse <DispRspn>	[0..1]			574
	OutputResult <OutptRslt>	[1..*]			574
	DeviceType <DvcTp>	[1..1]	CodeSet		575
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		575
	Response <Rspn>	[1..1]	±		576
	InputResponse <InptRspn>	[0..1]			576
	OutputResult <OutptRslt>	[0..1]			577
	DeviceType <DvcTp>	[1..1]	CodeSet		577
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		578
	Response <Rspn>	[1..1]	±		579
	InputResult <InptRslt>	[1..1]			579
	DeviceType <DvcTp>	[1..1]	CodeSet		579
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		580
	InputResultData <InptRsltData>	[1..1]			580
	InputCommand <InptCmd>	[1..1]	CodeSet		581
	ConfirmedFlag <ConfdFlg>	[0..1]	Indicator		582
	FunctionKey <FctnKey>	[0..1]	Quantity		582

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	InputMessage <InptMsg>	[0..1]	Text		582
	Password <Pwd>	[0..1]	±		582
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			583
	ImageFormat <ImgFrmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583
	PrintResponse <PrtRspn>	[0..1]			583
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		584
	SecureInputResponse <ScrInptRspn>	[0..1]			584
	CardholderPIN <CrhdldrPIN>	[0..1]			584
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		585
	PINFormat <PINFrmt>	[1..1]	CodeSet		585
	AdditionalInput <AddtlInpt>	[0..1]	Text		585
	InitialisationCardReaderResponse <InitlstnCardRdrRspn>	[0..1]			586
	CardEntryMode <CardNtryMd>	[0..1]	CodeSet		586
	ICCRResetData <ICCRstData>	[0..1]			587
	ATRValue <ATRVa/>	[0..1]	Binary		587
	CardStatus <CardSts>	[0..1]	Binary		587
	AdditionalInformation <AddtlInf>	[0..1]	Binary		587
	CardReaderApplicationProtocolDataUnitResponse <CardRdrApplPrtcolDataUnitRspn>	[0..1]			587
	Data <Data>	[0..1]	Binary		587
	CardStatus <CardSts>	[1..1]	Binary		588
	TransmissionResponse <TrnsmssnRspn>	[0..1]			588
	ReceivedMessage <RcvdMsg>	[0..1]	Binary		588
	Response <Rspn>	[1..1]	±		588
	SupplementaryData <SplmtryData>	[0..*]	±	C5	588
	SecurityTrailer <SctyTrlr>	[0..1]	±		589

18.3 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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, 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 SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

C6 ValidationByTable

Must be a valid terrestrial language.

18.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

18.4.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the request.

Header <Hdr> contains the following **Header41** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		561
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		561
	ExchangeIdentification <XchgId>	[1..1]	Text		562
	CreationDateTime <CreDtTm>	[1..1]	DateTime		562
	InitiatingParty <InitgPty>	[1..1]	±		562
	RecipientParty <RcptPty>	[0..1]	±		562
	Traceability <Tracblt>	[0..*]	±		563

18.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "RetailerMessage1Code" on page 904

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

18.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol specifications.

Datatype: "Max6Text" on page 930

18.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max35Text" on page 929

18.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

18.4.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

18.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

18.4.1.7 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 elements (see "[Traceability8](#)" on page 803 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

18.4.2 DeviceResponse <DvcRspn>

Presence: [1..1]

Definition: Information related to the response of a device request.

DeviceResponse <DvcRspn> contains the following **DeviceResponse3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[0..1]	±		565
	Context <Cntxt>	[0..1]	±		571
	ServiceContent <SvcCntt>	[1..1]	CodeSet		574
	DisplayResponse <DispRspn>	[0..1]			574
	OutputResult <OutptRslt>	[1..*]			574
	DeviceType <DvcTp>	[1..1]	CodeSet		575
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		575
	Response <Rspn>	[1..1]	±		576
	InputResponse <InptRspn>	[0..1]			576
	OutputResult <OutptRslt>	[0..1]			577
	DeviceType <DvcTp>	[1..1]	CodeSet		577
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		578
	Response <Rspn>	[1..1]	±		579
	InputResult <InptRslt>	[1..1]			579
	DeviceType <DvcTp>	[1..1]	CodeSet		579
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		580
	InputResultData <InptRsltData>	[1..1]			580
	InputCommand <InptCmd>	[1..1]	CodeSet		581
	ConfirmedFlag <ConfdFlg>	[0..1]	Indicator		582
	FunctionKey <FctnKey>	[0..1]	Quantity		582
	InputMessage <InptMsg>	[0..1]	Text		582
	Password <Pwd>	[0..1]	±		582
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			583
	ImageFormat <ImgFrmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583
	PrintResponse <PrtRspn>	[0..1]			583
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		584
	SecureInputResponse <ScrInptRspn>	[0..1]			584
	CardholderPIN <CrhdldrPIN>	[0..1]			584

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		585
	PINFormat <PINFrmt>	[1..1]	CodeSet		585
	AdditionalInput <AddtlInpt>	[0..1]	Text		585
	InitialisationCardReaderResponse <InitlstrCardRdrRspn>	[0..1]			586
	CardEntryMode <CardNtryMd>	[0..1]	CodeSet		586
	ICCRResetData <ICCRstData>	[0..1]			587
	ATRValue <ATRVAl>	[0..1]	Binary		587
	CardStatus <CardSts>	[0..1]	Binary		587
	AdditionalInformation <AddtlInf>	[0..1]	Binary		587
	CardReaderApplicationProtocolDataUnitResponse <CardRdrApplPrtcolDataUnitRspn>	[0..1]			587
	Data <Data>	[0..1]	Binary		587
	CardStatus <CardSts>	[1..1]	Binary		588
	TransmissionResponse <TrnsmssnRspn>	[0..1]			588
	ReceivedMessage <RcvdMsg>	[0..1]	Binary		588
	Response <Rspn>	[1..1]	±		588
	SupplementaryData <SplmtryData>	[0..*]	±	C5	588

18.4.2.1 Environment <Envt>

Presence: [0..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see "[CardPaymentEnvironment75](#)" on page 708 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crhdldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <SclSctyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrdhldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIscyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

18.4.2.2 Context <Cntxt>

Presence: [0..1]

Definition: Context in which the transaction is performed (payment and sale).

Context <Cntxt> contains the following elements (see "CardPaymentContext28" on page 762 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdrHldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdrrReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdrrNb>	[0..1]	Text		770
	InvoiceNumber <InvcNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandatImage <MndtImg>	[0..1]	Binary		781

18.4.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service answered.

Datatype: "RetailerService9Code" on page 912

CodeName	Name	Definition
DDYP	DeviceDisplayResponse	One system responds to the other system for a display request.
DINP	DeviceInputResponse	One system responds to the other System for a input request.
DPRP	DevicePrintResponse	One system responds to the other System for a print request.
DSOP	DevicePlaySoundResponse	One system responds to the other System for a play sound request.
DSIP	DeviceSecureInputResponse	One system responds to the other System for secure data input.
DCIP	DeviceInitialisationCardReaderResponse	The POI system responds to the Sale System for a card reader initialisation.
DCAP	DeviceSendApplicationProtocolDataUnitCardReaderResponse	The POI system responds to the Sale System for a card reader Application Protocol Data Unit sending.
DCPP	DevicePowerOffCardRequestResponse	The POI system responds to the Sale System for a card reader power off.
DCOP	DeviceTransmissionMessageResponse	The POI system responds to the Sale System after a message transmission.

18.4.2.4 DisplayResponse <DispRspn>

Presence: [0..1]

Definition: Content of the Display Response message.

DisplayResponse <DispRspn> contains the following **DeviceDisplayResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	OutputResult <OutptRsIt>	[1..*]			574
	DeviceType <DvcTp>	[1..1]	CodeSet		575
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		575
	Response <Rspn>	[1..1]	±		576

18.4.2.4.1 OutputResult <OutptRsIt>

Presence: [1..*]

Definition: Give result for display request.

OutputResult <OutputRslt> contains the following **OutputResult1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DeviceType <DvcTp>	[1..1]	CodeSet		575
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		575
	Response <Rspn>	[1..1]	±		576

18.4.2.4.1.1 DeviceType <DvcTp>

Presence: [1..1]

Definition: Logical device located on a Sale Terminal or a POI Terminal, in term of class of information to output.

Datatype: "UserInterface4Code" on page 922

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

18.4.2.4.1.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 889

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.

CodeName	Name	Definition
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

18.4.2.4.1.3 Response <Rspn>

Presence: [1..1]

Definition: Gives response for each peripheral.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

18.4.2.5 InputResponse <InptRspn>

Presence: [0..1]

Definition: Content of the Input Response message.

InputResponse <InptRspn> contains the following **DeviceInputResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	OutputResult <OutptRslt>	[0..1]			577
	DeviceType <DvcTp>	[1..1]	CodeSet		577
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		578
	Response <Rspn>	[1..1]	±		579
	InputResult <InptRslt>	[1..1]			579
	DeviceType <DvcTp>	[1..1]	CodeSet		579
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		580
	InputResultData <InptRsltData>	[1..1]			580
	InputCommand <InptCmd>	[1..1]	CodeSet		581
	ConfirmedFlag <ConfdFlg>	[0..1]	Indicator		582
	FunctionKey <FctnKey>	[0..1]	Quantity		582
	InputMessage <InptMsg>	[0..1]	Text		582
	Password <Pwd>	[0..1]	±		582
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			583
	ImageFormat <ImgFmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583

18.4.2.5.1 OutputResult <OutptRslt>

Presence: [0..1]

Definition: Result of display request.

OutputResult <OutptRslt> contains the following **OutputResult1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DeviceType <DvcTp>	[1..1]	CodeSet		577
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		578
	Response <Rspn>	[1..1]	±		579

18.4.2.5.1.1 DeviceType <DvcTp>

Presence: [1..1]

Definition: Logical device located on a Sale Terminal or a POI Terminal, in term of class of information to output.

Datatype: "UserInterface4Code" on page 922

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

18.4.2.5.1.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 889

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

18.4.2.5.1.3 Response <Rspn>

Presence: [1..1]

Definition: Gives response for each peripheral.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

18.4.2.5.2 InputResult <InptRslt>

Presence: [1..1]

Definition: Result of input request.

InputResult <InptRslt> contains the following **InputResult2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DeviceType <DvcTp>	[1..1]	CodeSet		579
	InformationQualifier <InfQlfr>	[1..1]	CodeSet		580
	InputResultData <InptRsltData>	[1..1]			580
	InputCommand <InptCmd>	[1..1]	CodeSet		581
	ConfirmedFlag <ConfdFlg>	[0..1]	Indicator		582
	FunctionKey <FctnKey>	[0..1]	Quantity		582
	InputMessage <InptMsg>	[0..1]	Text		582
	Password <Pwd>	[0..1]	±		582
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			583
	ImageFormat <ImgFrmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583

18.4.2.5.2.1 DeviceType <DvcTp>

Presence: [1..1]

Definition: Type of Input device.

Datatype: "SaleCapabilities2Code" on page 914

CodeName	Name	Definition
CHIN	CashierInput	Any kind of keyboard allowing all or part of the commands of the Input message

CodeName	Name	Definition
		request from the Sale System to the POI System (InputCommand data element). The output device attached to this input device is the CashierDisplay device.
CUIN	CustomerInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element).

18.4.2.5.2.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualifies the type of given information.

Datatype: "InformationQualify1Code" on page 889

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

18.4.2.5.2.3 InputResultData <InptRsltData>

Presence: [1..1]

Definition: Data resulting of input after POI or Sale processing.

InputResultData <InptRsltData> contains the following **InputResultData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InputCommand <InptCmd>	[1..1]	CodeSet		581
	ConfirmedFlag <ConfdFlg>	[0..1]	Indicator		582
	FunctionKey <FctnKey>	[0..1]	Quantity		582
	InputMessage <InptMsg>	[0..1]	Text		582
	Password <Pwd>	[0..1]	±		582
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			583
	ImageFormat <ImgFrmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583

18.4.2.5.2.3.1 InputCommand <InptCmd>

Presence: [1..1]

Definition: Type of processed input.

Datatype: "InputCommand1Code" on page 890

CodeName	Name	Definition
DCSG	DecimalString	Wait for a string of digit characters with a decimal point, the length range could be specified.
DGSG	DigitString	Wait for a string of digit characters.
GAKY	GetAnyKey	Wait for a key pressed on the Terminal, to be able to read the message displayed on the Terminal.
GCNF	GetConfirmation	Wait for a confirmation Yes (Y) or No (N) on the Sale System. Wait for a confirmation (Valid or Cancel button) on the POI Terminal. The result of the command is a Boolean: True or False.
GFKY	GetFunctionKey	Wait for a function key pressed on the Terminal: From POI, Valid, Clear, Correct, Generic Function key number. From Sale, Generic Function key.
GMNE	GetMenuEntry	To choose an entry among a list of entries (all of them are not necessary selectable). The OutputFormat has to be MenuEntry.
PSWD	Password	Request to enter a password with masked characters while typing the password.

CodeName	Name	Definition
SITE	SiteManager	Wait for a confirmation Yes (Y) or No (N) of the Site Manager on the Sale System.
TXSG	TextString	Wait for a string of alphanumeric characters.
HTML	XHTMLText	Wait for a XHTML data.
SIGN	Signature	Request to wait for signature.

18.4.2.5.2.3.2 ConfirmedFlag <ConfdFlg>

Presence: [0..1]

Definition: Flag of notification of card to be entered in the POI card reader.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

18.4.2.5.2.3.3 FunctionKey <FctnKey>

Presence: [0..1]

Definition: The number of the function key which is typed by the Customer on the POI system or the Cashier on the Sale System.

Datatype: ["Number" on page 926](#)

18.4.2.5.2.3.4 InputMessage <InptMsg>

Presence: [0..1]

Definition: The input text and data given by the POI or the Sale System.

Datatype: ["Max20000Text" on page 928](#)

18.4.2.5.2.3.5 Password <Pwd>

Presence: [0..1]

Definition: An enciphered password typed by the Customer on the POI system or the Cashier on the Sale system.

Password <Pwd> contains the following elements (see ["ContentInformationType23" on page 817](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

18.4.2.5.2.3.6 ImageCapturedSignature <ImgCaptrdSgntr>

Presence: [0..1]

Definition: Numeric value of a handwritten signature.

ImageCapturedSignature <ImgCaptrdSgntr> contains the following **CapturedSignature1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ImageFormat <ImgFrmt>	[1..1]	Text		583
	ImageData <ImgData>	[0..1]	Binary		583
	ImageReference <ImgRef>	[0..1]	Text		583
	AdditionalInformation <AddtlInf>	[0..1]	Text		583

18.4.2.5.2.3.6.1 ImageFormat <ImgFrmt>

Presence: [1..1]

Definition: Format of the image.

Datatype: "Max35Text" on page 929

18.4.2.5.2.3.6.2 ImageData <ImgData>

Presence: [0..1]

Definition: Data of the image.

Datatype: "Max2MBBinary" on page 861

18.4.2.5.2.3.6.3 ImageReference <ImgRef>

Presence: [0..1]

Definition: URL or name of the image.

Datatype: "Max500Text" on page 930

18.4.2.5.2.3.6.4 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information for the image.

Datatype: "Max140Text" on page 927

18.4.2.6 PrintResponse <PrtRspn>

Presence: [0..1]

Definition: Content of the Print Response message.

PrintResponse <PrtRspn> contains the following **DevicePrintResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		584

18.4.2.6.1 DocumentQualifier <DocQlfr>

Presence: [1..1]

Definition: Qualification of the document printed to the Cashier or the Customer.

Datatype: "DocumentType7Code" on page 887

CodeName	Name	Definition
JNRL	Journal	When the POI or the Sale System wants to store a message on the journal printer or electronic journal of the Sale Terminal (it is sometimes a Sale Logging/Journal Printer).
CRCP	CustomerReceipt	When the Sale System requires the POI system to print the Customer receipt.
HRCP	CashierReceipt	When the Sale system print the Cashier copy of the Payment receipt.
SRCP	SaleReceipt	When the Sale System requires the POI system to print the Sale receipt.
RPIN	RelatedPaymentInstruction	Document is a linked payment instruction to which the current payment instruction is related, for example, in a cover scenario.
VCHR	Voucher	Document is an electronic payment document.

18.4.2.7 SecureInputResponse <ScrInptRspn>

Presence: [0..1]

Definition: Response to a secure input request.

SecureInputResponse <ScrInptRspn> contains the following **DeviceSecureInputResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardholderPIN <CrdhldrPIN>	[0..1]			584
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		585
	PINFormat <PINFrmt>	[1..1]	CodeSet		585
	AdditionalInput <AddtlInpt>	[0..1]	Text		585

18.4.2.7.1 CardholderPIN <CrdhldrPIN>

Presence: [0..1]

Definition: Cardholder PIN data when needed.

CardholderPIN <CrhdldrPIN> contains the following **OnLinePIN7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		585
	PINFormat <PINFrmt>	[1..1]	CodeSet		585
	AdditionalInput <AddtlInpt>	[0..1]	Text		585

18.4.2.7.1.1 EncryptedPINBlock <NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see "ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

18.4.2.7.1.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 899

CodeName	Name	Definition
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.

18.4.2.7.1.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 929

18.4.2.8 InitialisationCardReaderResponse <InitlStnCardRdrRspn>

Presence: [0..1]

Definition: Content received after a card initialisation.

InitialisationCardReaderResponse <InitlStnCardRdrRspn> contains the following **DeviceInitialisationCardReaderResponse2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardEntryMode <CardNtryMd>	[0..1]	CodeSet		586
	ICCRResetData <ICCRstData>	[0..1]			587
	ATRValue <ATRVaI>	[0..1]	Binary		587
	CardStatus <CardSts>	[0..1]	Binary		587
	AdditionalInformation <AddtlInf>	[0..1]	Binary		587

18.4.2.8.1 CardEntryMode <CardNtryMd>

Presence: [0..1]

Definition: Payment instrument entry mode requested by the Sale System.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

18.4.2.8.2 ICCResetData <ICCRstData>

Presence: [0..1]

Definition: Data of a Chip Card related to the reset of the chip.

ICCResetData <ICCRstData> contains the following **ICCResetData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ATRValue <ATRVa>	[0..1]	Binary		587
	CardStatus <CardSts>	[0..1]	Binary		587

18.4.2.8.2.1 ATRValue <ATRVa>

Presence: [0..1]

Definition: Value of the Answer To Reset of a chip card.

Datatype: "Max140Binary" on page 861

18.4.2.8.2.2 CardStatus <CardSts>

Presence: [0..1]

Definition: Status of a smartcard response to a command (SW1-SW2).

Datatype: "Max35Binary" on page 862

18.4.2.8.3 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the Device Initialisation Card Reader Response.

Datatype: "Max10000Binary" on page 860

18.4.2.9 CardReaderApplicationProtocolDataUnitResponse

<CardRdrApplPrtcolDataUnitRspn>

Presence: [0..1]

Definition: Content of the Card Reader APDU (Application Protocol Data Unit) response message.

CardReaderApplicationProtocolDataUnitResponse <CardRdrApplPrtcolDataUnitRspn> contains the following **DeviceSendApplicationProtocolDataUnitCardReaderResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Data <Data>	[0..1]	Binary		587
	CardStatus <CardSts>	[1..1]	Binary		588

18.4.2.9.1 Data <Data>

Presence: [0..1]

Definition: Class field of the Application Protocol Data Unit command (CLA).

Datatype: "Min1Max256Binary" on page 862

18.4.2.9.2 CardStatus <CardSts>

Presence: [1..1]

Definition: Status of a smartcard response to a command (SW1-SW2). Reference: ISO 7816-4.

Datatype: "Min1Max256Binary" on page 862

18.4.2.10 TransmissionResponse <TrnsmssnRspn>

Presence: [0..1]

Definition: Content of the Transmit Response message.

TransmissionResponse <TrnsmssnRspn> contains the following
DeviceTransmitMessageResponse1 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReceivedMessage <RcvdMsg>	[0..1]	Binary		588

18.4.2.10.1 ReceivedMessage <RcvdMsg>

Presence: [0..1]

Definition: Content of a transmitted message.

Datatype: "Max100KBinary" on page 861

18.4.2.11 Response <Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType9" on page 786 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

18.4.2.12 SupplementaryData <SplmtryData>

Presence: [0..*]

Definition: Additional information incorporated as an extension to the message.

Impacted by: C5 "SupplementaryDataRule"

SupplementaryData <SplmtryData> contains the following elements (see "SupplementaryData1" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

18.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "[ContentInformationType21](#)" on [page 836](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

19 Message Items Types

19.1 MessageComponents

19.1.1 Acquirer

19.1.1.1 Acquirer10

Definition: Acquirer involved in the card payment.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		590
	ParametersVersion <ParamsVrsn>	[0..1]	Text		590

19.1.1.1.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the acquirer (for example the bank identification number BIN).

Identification <Id> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

19.1.1.1.2 ParametersVersion <ParamsVrsn>

Presence: [0..1]

Definition: Version of the payment acquirer parameters of the POI.

Datatype: "Max256Text" on page 928

19.1.2 Address

19.1.2.1 CommunicationAddress9

Definition: Communication information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PostalAddress <PstlAdr>	[0..1]	±		591
	Email <Email>	[0..1]	Text		591
	URLAddress <URLAdr>	[0..1]	Text		592
	Phone <Phne>	[0..1]	Text		592
	CustomerService <CstmrSvc>	[0..1]	Text		592
	AdditionalContactInformation <AddtlCtctInf>	[0..1]	Text		592

19.1.2.1.1 PostalAddress <PstlAdr>

Presence: [0..1]

Definition: Postal address of the entity.

PostalAddress <PstlAdr> contains the following elements (see "PostalAddress22" on page 809 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		810
	Department <Dept>	[0..1]	Text		810
	SubDepartment <SubDept>	[0..1]	Text		810
	AddressLine <AdrLine>	[0..2]	Text		810
	StreetName <StrtNm>	[0..1]	Text		811
	BuildingNumber <BldgNb>	[0..1]	Text		811
	PostCode <PstCd>	[0..1]	Text		811
	TownName <TwnNm>	[0..1]	Text		811
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		811
	CountryCode <CtryCd>	[0..1]	Text		811

19.1.2.1.2 Email <Email>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 928

19.1.2.1.3 URLAddress <URLAdr>

Presence: [0..1]

Definition: Address for the Universal Resource Locator (URL), for example used over the www (HTTP) service.

Datatype: "Max256Text" on page 928

19.1.2.1.4 Phone <Phne>

Presence: [0..1]

Definition: Collection of information that identifies a phone number, as defined by telecom services.

Datatype: "PhoneNumber" on page 932

19.1.2.1.5 CustomerService <CstmrSvc>

Presence: [0..1]

Definition: Phone number of the customer service.

Datatype: "PhoneNumber" on page 932

19.1.2.1.6 AdditionalContactInformation <AddtlCtctInf>

Presence: [0..1]

Definition: Additional information used to facilitate contact with the card acceptor, for instance sales agent name, dispute manager name.

Datatype: "Max256Text" on page 928

19.1.3 Amount

19.1.3.1 AmountAndDirection93

Definition: Signed amount.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		592
	Currency <Ccy>	[1..1]	CodeSet	C1	592
	Sign <Sgn>	[0..1]	Indicator		593

19.1.3.1.1 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.3.1.2 Currency <Ccy>

Presence: [1..1]

Definition: Currency associated with the transaction.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.3.1.3 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 925):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

19.1.3.2 DetailedAmount15

Definition: Detailed amounts associated with the total amount of transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

19.1.3.2.1 AmountGoodsAndServices <AmtGoodsAndSvcs>

Presence: [0..1]

Definition: Amount of purchase goods and services without tax.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.3.2.2 CashBack <CshBck>

Presence: [0..1]

Definition: Cash-back amount.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.3.2.3 Gratuity <Grtty>

Presence: [0..1]

Definition: Gratuity amount.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.3.2.4 Fees <Fees>

Presence: [0..*]

Definition: Fees amount.

Fees <Fees> contains the following elements (see "DetailedAmount4" on page 595 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		595
	Label <Labl>	[0..1]	Text		595

19.1.3.2.5 Rebate <Rbt>

Presence: [0..*]

Definition: Global rebate of the transaction. This amount is counted as a negative amount.

Rebate <Rbt> contains the following elements (see "DetailedAmount4" on page 595 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		595
	Label <Labl>	[0..1]	Text		595

19.1.3.2.6 ValueAddedTax <ValAddedTax>

Presence: [0..*]

Definition: Value added tax amount.

ValueAddedTax <ValAddedTax> contains the following elements (see "DetailedAmount4" on page 595 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		595
	Label <Labl>	[0..1]	Text		595

19.1.3.2.7 Surcharge <Srchr>

Presence: [0..*]

Definition: Additional charge paid by the cardholder. For example airline credit card surcharge.

Surcharge <Srchr> contains the following elements (see ["DetailedAmount4"](#) on page 595 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		595
	Label <Labl>	[0..1]	Text		595

19.1.3.3 DetailedAmount4

Definition: Detailed amounts associated with the total amount of transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		595
	Label <Labl>	[0..1]	Text		595

19.1.3.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: ["ImpliedCurrencyAndAmount"](#) on page 860

19.1.3.3.2 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to display or print.

Datatype: ["Max140Text"](#) on page 927

19.1.4 Card

19.1.4.1 PlainCardData15

Definition: Sensible data associated with the payment card performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		596
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		596
	EffectiveDate <FctvDt>	[0..1]	Text		596
	ExpiryDate <XpryDt>	[1..1]	Text		596
	ServiceCode <SvcCd>	[0..1]	Text		596
	Track1 <Trck1>	[0..1]	Text		597
	Track2 <Trck2>	[0..1]	Text		597
	Track3 <Trck3>	[0..1]	Text		597
	CardholderName <CrdhldrNm>	[0..1]	Text		597

19.1.4.1.1 PAN <PAN>

Presence: [1..1]

Definition: Primary Account Number (PAN) of the card, or surrogate of the PAN by a payment token.

Datatype: "Min8Max28NumericText" on page 932

19.1.4.1.2 CardSequenceNumber <CardSeqNb>

Presence: [0..1]

Definition: Identify a card or a payment token inside a set of cards with the same PAN or token.

Datatype: "Min2Max3NumericText" on page 931

19.1.4.1.3 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 927

19.1.4.1.4 ExpiryDate <XpryDt>

Presence: [1..1]

Definition: Expiry date of the card or the payment token expressed either in the YYYY-MM format, or in the YYYY-MM-DD format.

Datatype: "Max10Text" on page 927

19.1.4.1.5 ServiceCode <SvcCd>

Presence: [0..1]

Definition: Services attached to the card, as defined in ISO 7813.

Datatype: "Exact3NumericText" on page 927

19.1.4.1.6 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 931

19.1.4.1.7 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 929

19.1.4.1.8 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 927

19.1.4.1.9 CardholderName <CrdhldrNm>

Presence: [0..1]

Definition: Name of the cardholder stored on the card.

Datatype: "Max45Text" on page 930

19.1.5 Card Transaction

19.1.5.1 CardPaymentTransaction100

Definition: Data associated with the transaction for a potential currency conversion.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UatnddLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhldr>	[0..1]	Indicator		613
	Conversion <Convs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615
	NumericCode <NmrcCd>	[1..1]	Text		615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrtDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <Saleitm>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622
	Value <Val>	[0..1]	Binary		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedValue <PrtctdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrd>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

19.1.5.1.1 TransactionCapture <TxCaptr>

Presence: [0..1]

Definition: Flag indicating whether the transaction data must be captured or not in addition to the message process.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.5.1.2 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of transaction being undertaken for the main service.

Datatype: ["CardPaymentServiceType5Code" on page 881](#)

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.

CodeName	Name	Definition
CSHD	CashDeposit	Cash deposit.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
VALC	ValidityCheck	Card validity check.
UNLD	Unloading	Unloading non-financial account.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.

19.1.5.1.3 AdditionalService <AddtlSvc>

Presence: [0..*]

Definition: Service in addition to the main service.

Datatype: "CardPaymentServiceType9Code" on page 882

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
VCAU	VoiceAuthorisation	Voice authorisation.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
CSHB	CashBack	Card payment with cash-back.
INST	Instant	Instant transaction.

CodeName	Name	Definition
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.

19.1.5.1.4 ServiceAttribute <SvcAttr>

Presence: [0..1]

Definition: Additional attribute of the service type.

Datatype: "CardPaymentServiceType3Code" on page 881

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

19.1.5.1.5 LastTransactionFlag <LastTxFlg>

Presence: [0..1]

Definition: Flag indicating processing of the last transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.5.1.6 MerchantCategoryCode <MrchntCtgyCd>

Presence: [0..1]

Definition: Category code conform to ISO 18245, related to the type of services or goods the merchant provides for the transaction.

Datatype: "Min3Max4Text" on page 931

19.1.5.1.7 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: "Max35Text" on page 929

19.1.5.1.8 TransactionIdentification <TxId>

Presence: [1..1]

Definition: Identification of the transaction assigned by the initiator of the request. For instance refers to POITransactionIdentification if used inside an authorisation request or to SaleTransactionIdentification if the message is a payment request initiated by a sale system.

TransactionIdentification <TxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

19.1.5.1.9 OriginalTransaction <OrgnlTx>

Presence: [0..1]

Definition: Identification of the original transaction.

OriginalTransaction <OrgnlTx> contains the following elements (see "CardPaymentTransaction102" on page 625 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		627
	TransactionIdentification <TxId>	[1..1]	±		627
	POIIdentification <POIID>	[1..1]	±		627
	CurrencyConversion <CcyConvs>	[0..1]			627
	Result <RsIt>	[1..1]	CodeSet		629
	ResultReason <RsItRsn>	[0..1]	Text		629
	ConversionDetails <ConvsDtIs>	[0..*]			629
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		630
	TargetCurrency <TrgtCcy>	[1..1]			631
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	631
	NumericCode <NmrcCd>	[1..1]	Text		631
	Decimal <Dcml>	[1..1]	Quantity		631
	Name <Nm>	[0..1]	Text		631
	ResultingAmount <RsItgAmt>	[1..1]	Amount		631
	ExchangeRate <XchgRate>	[1..1]	Rate		632
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		632
	QuotationDate <QtnDt>	[0..1]	DateTime		632
	ValidUntil <VldUntil>	[0..1]	DateTime		632
	SourceCurrency <SrcCcy>	[1..1]			632
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	632
	NumericCode <NmrcCd>	[0..1]	Text		633
	Decimal <Dcml>	[0..1]	Quantity		633
	Name <Nm>	[0..1]	Text		633
	OriginalAmount <OrgnlAmt>	[1..1]			633
	ActualAmount <ActlAmt>	[0..1]	Amount		633
	MinimumAmount <MinAmt>	[0..1]	Amount		633
	MaximumAmount <MaxAmt>	[0..1]	Amount		634
	CommissionDetails <ComssnDtIs>	[0..*]			634
	Amount <Amt>	[1..1]	Amount		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MarkUpDetails <MrkUpDtls>	[0..*]			634
	Rate <Rate>	[1..1]	Rate		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	DeclarationDetails <DclrtnDtls>	[0..*]	±		635

19.1.5.1.10 ReconciliationIdentification <RcncltnId>

Presence: [0..1]

Definition: Unique identification of the Acquirer/Acceptor reconciliation period.

Datatype: "Max35Text" on page 929

19.1.5.1.11 IssuerReferenceData <IssrRefData>

Presence: [0..1]

Definition: Identification of the transaction given by the Issuer.

Datatype: "Max140Text" on page 927

19.1.5.1.12 TransactionDetails <TxDtls>

Presence: [1..1]

Definition: Details of the transaction.

TransactionDetails <TxDtIs> contains the following **CardPaymentTransactionDetails48** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UatnddLvlCtgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhldr>	[0..1]	Indicator		613
	Conversion <Convs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <Dclrtndtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <Saleitm>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		622

19.1.5.1.12.1 Currency <Ccy>

Presence: [0..1]

Definition: Currency associated with the transaction.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.5.1.12.2 TotalAmount <TtlAmt>

Presence: [1..1]

Definition: Total amount of the transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.3 CumulativeAmount <CmltvAmt>

Presence: [0..1]

Definition: Contains the updated amount of all authorisations related to the same business transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.4 AmountQualifier <AmtQlfr>

Presence: [0..1]

Definition: Qualifies the amount associated with the transaction.

Datatype: "TypeOfAmount8Code" on page 920

CodeName	Name	Definition
ACTL	Actual	Actual amount.
ESTM	Estimated	Estimated amount (the final amount could be above or below).
MAXI	Maximum	Maximum amount (the final amount must be less or equal).
DFLT	Default	Default amount.
RPLT	Replacement	Replacement amount.
INCR	Incremental	Incremental amount for reservation.
DECR	Decremental	Decremental amount for reservation.
RESA	Reserved	Reserved or updated reserved amount for reservation.

19.1.5.1.12.5 DetailedAmount <DtldAmt>

Presence: [0..1]

Definition: Detailed amounts associated with the total amount of transaction.

DetailedAmount <DtldAmt> contains the following elements (see "DetailedAmount15" on page 593 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountGoodsAndServices <AmtGoodsAndSvcs>	[0..1]	Amount		593
	CashBack <CshBck>	[0..1]	Amount		593
	Gratuity <Grtty>	[0..1]	Amount		594
	Fees <Fees>	[0..*]	±		594
	Rebate <Rbt>	[0..*]	±		594
	ValueAddedTax <ValAddedTax>	[0..*]	±		594
	Surcharge <Srchr>	[0..*]	±		594

19.1.5.1.12.6 RequestedAmount <ReqdAmt>

Presence: [0..1]

Definition: Amount requested to be authorised.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.7 AuthorisedAmount <AuthrsdAmt>

Presence: [0..1]

Definition: Amount authorised for the payment transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.8 InvoiceAmount <InvcAmt>

Presence: [0..1]

Definition: Amount of the transaction that will be invoiced to the cardholder.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.9 ValidityDate <VldtyDt>

Presence: [0..1]

Definition: Transaction authorisation deadline to complete the related payment.

Datatype: "ISODate" on page 923

19.1.5.1.12.10 OnLineReason <OnLineRsn>

Presence: [0..*]

Definition: Reason to process an online authorisation.

Datatype: "OnLineReason1Code" on page 895

CodeName	Name	Definition
RNDM	RandomSelection	Transaction random selection to go online.
ICCF	ICCForced	Payment application in the Integrated Circuit Card forces to go on-line.

CodeName	Name	Definition
MERF	MerchantForced	On line forced by card acceptor.
TRMF	TerminalForced	Terminal random selection to go online.
ISSF	IssuerForced	On line forced by card issuer.
FRLT	FloorLimit	Over floor limit.
EXFL	ExceptionFile	Card appears on terminal exception file.
TAMT	TotalAmount	Total amount of purchases per cardholder and per application above floor limit.
CBIN	ControlledBIN	Bank Identification Number under control.
UBIN	UnknownBIN	Unknown Bank Identification Number.
CPAN	ControlledPAN	Primary account number (card number) under control.
FLOW	FlowControl	Flow control.
CRCY	UnavailableCurrency	Unknown currency code or foreign currency.

19.1.5.1.12.11 UnattendedLevelCategory <UattnddLvlCtgy>

Presence: [0..1]

Definition: Transaction category level on an unattended POI (Point Of Interaction).

Datatype: "Max35NumericText" on page 929

19.1.5.1.12.12 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType3Code" on page 876

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.

CodeName	Name	Definition
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.

19.1.5.1.12.13 CurrencyConversionResult <CcyConvRsIt>

Presence: [0..1]

Definition: Result of the currency conversion proposed to the cardholder.

CurrencyConversionResult <CcyConvRsIt> contains the following **CurrencyConversion17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcceptedByCardholder <AccptdByCrdhldr>	[0..1]	Indicator		613
	Conversion <Convs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvslId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrtnDtls>	[0..*]	±		619

19.1.5.1.12.13.1 AcceptedByCardholder <AccptdByCrdhldr>

Presence: [0..1]

Definition: True if the cardholder has accepted the currency conversion that the acquirer has proposed.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.5.1.12.13.2 Conversion <Convs>

Presence: [0..1]

Definition: Conversion between the currency of a card acceptor and the currency of a cardholder, provided by a dedicated service provider.

Conversion <Convs> contains the following **CurrencyConversion19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CurrencyConversionIdentification <CcyConvslId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrtDtls>	[0..*]	±		619

19.1.5.1.12.13.2.1 CurrencyConversionIdentification <CcyConvslId>

Presence: [0..1]

Definition: Identification of the currency conversion operation for the service provider.

Datatype: "Max35Text" on page 929

19.1.5.1.12.13.2.2 TargetCurrency <TrgtCcy>

Presence: [1..1]

Definition: Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

TargetCurrency <TrgtCcy> contains the following **CurrencyDetails3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615

19.1.5.1.12.13.2.2.1 AlphaCode <AlphaCd>

Presence: [1..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.5.1.12.13.2.2.2 NumericCode <NmrcCd>

Presence: [1..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.5.1.12.13.2.2.3 Decimal <Dcml>

Presence: [1..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.5.1.12.13.2.2.4 Name <Nm>

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.5.1.12.13.2.3 ResultingAmount <RsltAmt>

Presence: [1..1]

Definition: Amount converted in the target currency, including additional charges.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.13.2.4 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 926

19.1.5.1.12.13.2.5 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 926

19.1.5.1.12.13.2.6 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 923

19.1.5.1.12.13.2.7 ValidUntil <VldUntil>

Presence: [0..1]

Definition: Validity limit of the exchange rate.

Datatype: "ISODateTime" on page 923

19.1.5.1.12.13.2.8 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
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617

19.1.5.1.12.13.2.8.1 AlphaCode <AlphaCd>

Presence: [0..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.5.1.12.13.2.8.2 **NumericCode <NmrcCd>**

Presence: [0..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.5.1.12.13.2.8.3 **Decimal <Dcml>**

Presence: [0..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.5.1.12.13.2.8.4 **Name <Nm>**

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.5.1.12.13.2.9 **OriginalAmount <OrgnlAmt>**

Presence: [1..1]

Definition: Original amount in the source currency.

OriginalAmount <OrgnlAmt> contains the following **OriginalAmountDetails1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618

19.1.5.1.12.13.2.9.1 **ActualAmount <ActlAmt>**

Presence: [0..1]

Definition: Actual amount to be converted.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.13.2.9.2 **MinimumAmount <MinAmt>**

Presence: [0..1]

Definition: Minimum amount for conversion (in case of range of amounts).

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.13.2.9.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum amount for conversion (in case of range of amounts).

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.13.2.10 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
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618

19.1.5.1.12.13.2.10.1 Amount <Amt>

Presence: [1..1]

Definition: Commission expressed as an amount of money.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.1.12.13.2.10.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of commission.

Datatype: "Max350Text" on page 929

19.1.5.1.12.13.2.11 MarkupDetails <MrkUpDtls>

Presence: [0..*]

Definition: Markup made as part of a currency conversion.

MarkupDetails <MrkUpDtls> contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618

19.1.5.1.12.13.2.11.1 Rate <Rate>

Presence: [1..1]

Definition: Commission expressed as a percentage.

Datatype: "PercentageRate" on page 926

19.1.5.1.12.13.2.11.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of markup.

Datatype: "Max350Text" on page 929

19.1.5.1.12.13.2.12 DeclarationDetails <DclrtnDtls>

Presence: [0..*]

Definition: Card scheme declaration (disclaimer) to present to the cardholder.

DeclarationDetails <DclrtnDtls> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.5.1.12.14 Instalment <Instlmt>

Presence: [0..1]

Definition: Data related to a financial loan (instalment) or to a recurring transaction.

Instalment <Instlmt> contains the following elements (see "[RecurringTransaction2](#)" on page 800 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InstalmentPlan <InstlmtPlan>	[0..*]	CodeSet		801
	PlanIdentification <PlanId>	[0..1]	Text		801
	SequenceNumber <SeqNb>	[0..1]	Quantity		801
	PeriodUnit <PrdUnit>	[0..1]	CodeSet		801
	InstalmentPeriod <InstlmtPrd>	[0..1]	Quantity		802
	TotalNumberOfPayments <TtlNbOfPmts>	[0..1]	Quantity		802
	FirstPaymentDate <FrstPmtDt>	[0..1]	Date		802
	TotalAmount <TtlAmt>	[0..1]	Amount	C7	802
	FirstAmount <FrstAmt>	[0..1]	Amount		802
	Charges <Chrgs>	[0..1]	Amount		803

19.1.5.1.12.15 AggregationTransaction <AggtnTx>

Presence: [0..1]

Definition: Payment transaction with an aggregated amount.

AggregationTransaction <AggtnTx> contains the following elements (see "[AggregationTransaction3](#)" on page 705 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	FirstPaymentDateTime <FrstPmtDtTm>	[0..1]	DateTime		706
	LastPaymentDateTime <LastPmtDtTm>	[0..1]	DateTime		706
	NumberOfPayments <NbOfPmts>	[0..1]	Quantity		706
	IndividualPayment <IndvPmt>	[0..*]			706
	Amount <Amt>	[1..1]	Amount		707
	DateTime <DtTm>	[1..1]	DateTime		707
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		707
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		707
	Label <Labl>	[0..1]	Text		708

19.1.5.1.12.16 ProductCodeSetIdentification <PdctCdSetId>

Presence: [0..1]

Definition: Codification used to identify the products.

Datatype: "[Max10Text](#)" on page 927

19.1.5.1.12.17 SaleItem <SaleItm>

Presence: [0..*]

Definition: Item purchased with the transaction.

SaleItem <SaleItm> contains the following elements (see "Product6" on page 787 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

19.1.5.1.12.18 DeliveryLocation <DlvryLctn>

Presence: [0..1]

Definition: Location of the delivery, for instance pump number or parking bay.

Datatype: "Max35Text" on page 929

19.1.5.1.12.19 AdditionalInformation <AddtlInf>

Presence: [0..*]

Definition: Additional information related to the transaction like an Invoice or IndustryData (for example hospitality, lodging, transportation).

AdditionalInformation <AddtlInf> contains the following **ExternallyDefinedData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		622
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622

19.1.5.1.12.19.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 927

19.1.5.1.12.19.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 861

19.1.5.1.12.19.3 ProtectedValue <PrctcdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrctcdVal> contains the following elements (see "ContentInformationType23" on page 817 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

19.1.5.1.12.19.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

Datatype: "Max1025Text" on page 927

19.1.5.1.12.20 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Data related to an integrated circuit card application.

Datatype: "Max10000Binary" on page 860

19.1.5.1.13 MerchantReferenceData <MrchntRefData>

Presence: [0..1]

Definition: Merchant information that must be returned unchanged in the response.

Datatype: "Max70Text" on page 930

19.1.5.1.14 CustomerOrder <CstmrOrdr>

Presence: [0..1]

Definition: Customer Order processing data.

CustomerOrder <CstmrOrdr> contains the following elements (see "CustomerOrder1" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrlid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefld>	[1..1]	Text		648
	OpenOrderState <OpnOrdrStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

19.1.5.1.15 CustomerToken <CstmrTkn>

Presence: [0..1]

Definition: Customer payment token information.

CustomerToken <CstmrTkn> contains the following elements (see "[CardPaymentToken5](#)" on page 857 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		858
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		858
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		858
	TokenCharacteristic <TknChrtc>	[0..*]	Text		858
	TokenRequestor <TknRqstr>	[0..1]			858
	ProviderIdentification <PrvdrId>	[1..1]	Text		859
	RequestorIdentification <RqstrId>	[1..1]	Text		859
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		859
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		859
	TokenAssuranceMethod <TknAssrncMtd>	[0..1]	Text		859
	TokenInitiatedIndicator <TknInittlInd>	[0..1]	Indicator		859

19.1.5.1.16 CustomerConsent <CstmrCnsnt>

Presence: [0..1]

Definition: This enables retailers, if they so wish, to clearly indicate whether the consent of the customer was explicitly obtained for a given service instead of being implicitly derived.

Datatype: One of the following values must be used (see "[TrueFalseIndicator](#)" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.5.1.17 CardProgrammeProposed <CardPrgrmmPropsd>

Presence: [0..*]

Definition: The card program proposed by a retailer to a cardholder among a series of payment programmes offered by the retailer.

Datatype: "[Max35Text](#)" on page 929

19.1.5.1.18 CardProgrammeApplied <CardPrgrmmApld>

Presence: [0..1]

Definition: The card program actually selected by the cardholder among the ones supported by the retailer and/or the one actually proposed to him.

Datatype: "[Max35Text](#)" on page 929

19.1.5.1.19 SaleToPOIData <SaleToPOIData>

Presence: [0..1]

Definition: The POI System receives this information.

Datatype: "Max70Text" on page 930

19.1.5.1.20 SaleToAcquirerData <SaleToAcqrrData>

Presence: [0..1]

Definition: Sale information intended for the Acquirer.

Datatype: "Max70Text" on page 930

19.1.5.1.21 SaleToIssuerData <SaleToIssrData>

Presence: [0..1]

Definition: Sale information intended for the Issuer.

Datatype: "Max70Text" on page 930

19.1.5.1.22 AdditionalTransactionData <AddtlTxData>

Presence: [0..*]

Definition: Additional information related to the transaction.

Datatype: "Max70Text" on page 930

19.1.5.2 CardPaymentTransaction102

Definition: Identification of the original transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		627
	TransactionIdentification <TxId>	[1..1]	±		627
	POIIdentification <POIId>	[1..1]	±		627
	CurrencyConversion <CcyConvs>	[0..1]			627
	Result <Rslt>	[1..1]	CodeSet		629
	ResultReason <RsltRsn>	[0..1]	Text		629
	ConversionDetails <ConvsDtIs>	[0..*]			629
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		630
	TargetCurrency <TrgtCcy>	[1..1]			631
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	631
	NumericCode <NmrcCd>	[1..1]	Text		631
	Decimal <Dcml>	[1..1]	Quantity		631
	Name <Nm>	[0..1]	Text		631
	ResultingAmount <RsltAmt>	[1..1]	Amount		631
	ExchangeRate <XchgRate>	[1..1]	Rate		632
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		632
	QuotationDate <QtnDt>	[0..1]	DateTime		632
	ValidUntil <VldUntil>	[0..1]	DateTime		632
	SourceCurrency <SrcCcy>	[1..1]			632
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	632
	NumericCode <NmrcCd>	[0..1]	Text		633
	Decimal <Dcml>	[0..1]	Quantity		633
	Name <Nm>	[0..1]	Text		633
	OriginalAmount <OrgnlAmt>	[1..1]			633
	ActualAmount <ActlAmt>	[0..1]	Amount		633
	MinimumAmount <MinAmt>	[0..1]	Amount		633
	MaximumAmount <MaxAmt>	[0..1]	Amount		634
	CommissionDetails <ComssnDtIs>	[0..*]			634
	Amount <Amt>	[1..1]	Amount		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	MarkUpDetails <MrkUpDtIs>	[0..*]			634

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Rate <Rate>	[1..1]	Rate		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	DeclarationDetails <DclrtnDtls>	[0..*]	±		635

19.1.5.2.1 SaleReferenceIdentification <SaleRefId>

Presence: [0..1]

Definition: Global reference of the sale transaction for the sale system.

Datatype: "Max35Text" on page 929

19.1.5.2.2 TransactionIdentification <TxId>

Presence: [1..1]

Definition: Unique identification of the transaction assigned by the POI (Point Of Interaction).

TransactionIdentification <TxId> contains the following elements (see "TransactionIdentifier1" on page 799 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

19.1.5.2.3 POIIdentification <POIID>

Presence: [1..1]

Definition: Identification of the POI (Point Of Interaction) performing the transaction.

POIIdentification <POIID> contains the following elements (see "GenericIdentification32" on page 635 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		635
	Type <Tp>	[0..1]	CodeSet		636
	Issuer <Issr>	[0..1]	CodeSet		636
	ShortName <ShrtNm>	[0..1]	Text		636

19.1.5.2.4 CurrencyConversion <CcyConvs>

Presence: [0..1]

Definition: Link to a previous currency conversion.

CurrencyConversion <CcyConvs> contains the following **CurrencyConversion18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		629
	ResultReason <RsltRsn>	[0..1]	Text		629
	ConversionDetails <ConvsDtls>	[0..*]			629
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		630
	TargetCurrency <TrgtCcy>	[1..1]			631
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	631
	NumericCode <NmrcCd>	[1..1]	Text		631
	Decimal <Dcml>	[1..1]	Quantity		631
	Name <Nm>	[0..1]	Text		631
	ResultingAmount <RsltAmt>	[1..1]	Amount		631
	ExchangeRate <XchgRate>	[1..1]	Rate		632
	InvertedExchangeRate <NvrtXchgRate>	[0..1]	Rate		632
	QuotationDate <QtnDt>	[0..1]	DateTime		632
	ValidUntil <VldUntil>	[0..1]	DateTime		632
	SourceCurrency <SrcCcy>	[1..1]			632
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	632
	NumericCode <NmrcCd>	[0..1]	Text		633
	Decimal <Dcml>	[0..1]	Quantity		633
	Name <Nm>	[0..1]	Text		633
	OriginalAmount <OrgnlAmt>	[1..1]			633
	ActualAmount <ActlAmt>	[0..1]	Amount		633
	MinimumAmount <MinAmt>	[0..1]	Amount		633
	MaximumAmount <MaxAmt>	[0..1]	Amount		634
	CommissionDetails <ComssnDtls>	[0..*]			634
	Amount <Amt>	[1..1]	Amount		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	MarkupDetails <MrkUpDtls>	[0..*]			634
	Rate <Rate>	[1..1]	Rate		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	DeclarationDetails <DclrtnDtls>	[0..*]	±		635

19.1.5.2.4.1 Result <Rslt>

Presence: [1..1]

Definition: Result of a requested currency conversion.

Datatype: "CurrencyConversionResponse3Code" on page 885

CodeName	Name	Definition
ODCC	Allowed	Dynamic currency conversion may be offered to the cardholder.
DCCA	Assumed	Transaction authorised with dynamic currency conversion.
ICRD	InvalidCard	The card is not valid for dynamic currency conversion.
IMER	InvalidMerchant	The card acceptor has not been recognised.
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.
REST	Restriction	Conversion accepted for the requested amount exclusively.
CATG	Catalogue	Conversion accepted for a range of amounts.

19.1.5.2.4.2 ResultReason <RsltRsn>

Presence: [0..1]

Definition: Plain text explaining the result of the currency conversion request.

Datatype: "Max35Text" on page 929

19.1.5.2.4.3 ConversionDetails <ConvsDtls>

Presence: [0..*]

Definition: Information about the conversion of currency.

ConversionDetails <ConvDtls> contains the following **CurrencyConversion19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CurrencyConversionIdentification <CcyConvslId>	[0..1]	Text		630
	TargetCurrency <TrgtCcy>	[1..1]			631
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	631
	NumericCode <NmrcCd>	[1..1]	Text		631
	Decimal <Dcml>	[1..1]	Quantity		631
	Name <Nm>	[0..1]	Text		631
	ResultingAmount <RsltAmt>	[1..1]	Amount		631
	ExchangeRate <XchgRate>	[1..1]	Rate		632
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		632
	QuotationDate <QtnDt>	[0..1]	DateTime		632
	ValidUntil <VldUntil>	[0..1]	DateTime		632
	SourceCurrency <SrcCcy>	[1..1]			632
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	632
	NumericCode <NmrcCd>	[0..1]	Text		633
	Decimal <Dcml>	[0..1]	Quantity		633
	Name <Nm>	[0..1]	Text		633
	OriginalAmount <OrgnlAmt>	[1..1]			633
	ActualAmount <ActlAmt>	[0..1]	Amount		633
	MinimumAmount <MinAmt>	[0..1]	Amount		633
	MaximumAmount <MaxAmt>	[0..1]	Amount		634
	CommissionDetails <ComssnDtls>	[0..*]			634
	Amount <Amt>	[1..1]	Amount		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	MarkUpDetails <MrkUpDtls>	[0..*]			634
	Rate <Rate>	[1..1]	Rate		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634
	DeclarationDetails <DclrtDtls>	[0..*]	±		635

19.1.5.2.4.3.1 CurrencyConversionIdentification <CcyConvslId>

Presence: [0..1]

Definition: Identification of the currency conversion operation for the service provider.

Datatype: "Max35Text" on page 929

19.1.5.2.4.3.2 TargetCurrency <TrgtCcy>

Presence: [1..1]

Definition: Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

TargetCurrency <TrgtCcy> contains the following **CurrencyDetails3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	631
	NumericCode <NmrcCd>	[1..1]	Text		631
	Decimal <Dcml>	[1..1]	Quantity		631
	Name <Nm>	[0..1]	Text		631

19.1.5.2.4.3.2.1 AlphaCode <AlphaCd>

Presence: [1..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.5.2.4.3.2.2 NumericCode <NmrcCd>

Presence: [1..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.5.2.4.3.2.3 Decimal <Dcml>

Presence: [1..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.5.2.4.3.2.4 Name <Nm>

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.5.2.4.3.3 ResultingAmount <RsltAmt>

Presence: [1..1]

Definition: Amount converted in the target currency, including additional charges.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.2.4.3.4 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 926

19.1.5.2.4.3.5 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 926

19.1.5.2.4.3.6 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 923

19.1.5.2.4.3.7 ValidUntil <VldUntil>

Presence: [0..1]

Definition: Validity limit of the exchange rate.

Datatype: "ISODateTime" on page 923

19.1.5.2.4.3.8 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
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	632
	NumericCode <NmrcCd>	[0..1]	Text		633
	Decimal <Dcml>	[0..1]	Quantity		633
	Name <Nm>	[0..1]	Text		633

19.1.5.2.4.3.8.1 AlphaCode <AlphaCd>

Presence: [0..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.5.2.4.3.8.2 **NumericCode <NmrcCd>**

Presence: [0..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.5.2.4.3.8.3 **Decimal <Dcml>**

Presence: [0..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.5.2.4.3.8.4 **Name <Nm>**

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.5.2.4.3.9 **OriginalAmount <OrgnlAmt>**

Presence: [1..1]

Definition: Original amount in the source currency.

OriginalAmount <OrgnlAmt> contains the following **OriginalAmountDetails1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActualAmount <ActlAmt>	[0..1]	Amount		633
	MinimumAmount <MinAmt>	[0..1]	Amount		633
	MaximumAmount <MaxAmt>	[0..1]	Amount		634

19.1.5.2.4.3.9.1 **ActualAmount <ActlAmt>**

Presence: [0..1]

Definition: Actual amount to be converted.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.2.4.3.9.2 **MinimumAmount <MinAmt>**

Presence: [0..1]

Definition: Minimum amount for conversion (in case of range of amounts).

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.2.4.3.9.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum amount for conversion (in case of range of amounts).

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.2.4.3.10 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
	Amount <Amt>	[1..1]	Amount		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634

19.1.5.2.4.3.10.1 Amount <Amt>

Presence: [1..1]

Definition: Commission expressed as an amount of money.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.5.2.4.3.10.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of commission.

Datatype: "Max350Text" on page 929

19.1.5.2.4.3.11 MarkupDetails <MrkUpDtls>

Presence: [0..*]

Definition: Markup made as part of a currency conversion.

MarkupDetails <MrkUpDtls> contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Rate <Rate>	[1..1]	Rate		634
	AdditionalInformation <AddtlInf>	[0..1]	Text		634

19.1.5.2.4.3.11.1 Rate <Rate>

Presence: [1..1]

Definition: Commission expressed as a percentage.

Datatype: "PercentageRate" on page 926

19.1.5.2.4.3.11.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of markup.

Datatype: "Max350Text" on page 929

19.1.5.2.4.3.12 DeclarationDetails <DclrtnDtls>

Presence: [0..*]

Definition: Card scheme declaration (disclaimer) to present to the cardholder.

DeclarationDetails <DclrtnDtls> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstrn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.6 Identification Information

19.1.6.1 GenericIdentification32

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		635
	Type <Tp>	[0..1]	CodeSet		636
	Issuer <Issr>	[0..1]	CodeSet		636
	ShortName <ShrtNm>	[0..1]	Text		636

19.1.6.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 929

19.1.6.1.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType3Code" on page 897

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
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.

19.1.6.1.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType4Code" on page 898

CodeName	Name	Definition
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
TAXH	TaxAuthority	Tax authority.

19.1.6.1.4 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 929

19.1.6.2 GenericIdentification177

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

19.1.6.2.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 929

19.1.6.2.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType33Code" on page 897

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TAXH	TaxAuthority	Tax authority.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

19.1.6.2.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType33Code" on page 897

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TAXH	TaxAuthority	Tax authority.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

19.1.6.2.4 Country <Ctry>

Presence: [0..1]

Definition: Country of the entity (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 931

19.1.6.2.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 929

19.1.6.2.6 RemoteAccess <RmotAccs>

Presence: [0..1]

Definition: Access information to reach the target host.

RemoteAccess <RmotAccs> contains the following elements (see "NetworkParameters7" on page 807 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Address <Adr>	[1..*]			808
	NetworkType <NtwkTp>	[1..1]	CodeSet		808
	AddressValue <AdrVal>	[1..1]	Text		808
	UserName <UsrNm>	[0..1]	Text		808
	AccessCode <AccsCd>	[0..1]	Binary		809
	ServerCertificate <SvrCert>	[0..*]	Binary		809
	ServerCertificateIdentifier <SvrCertIdr>	[0..*]	Binary		809
	ClientCertificate <ClntCert>	[0..*]	Binary		809
	SecurityProfile <SctyPrfl>	[0..1]	Text		809

19.1.6.2.7 Geolocation <Glctn>

Presence: [0..1]

Definition: Location of the entity.

Geolocation <Glctn> contains the following **Geolocation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

19.1.6.2.7.1 GeographicCoordinates <GeogcCordints>

Presence: [0..1]

Definition: Geographic location specified by geographic coordinates.

GeographicCoordinates <GeogcCordints> contains the following
GeolocationGeographicCoordinates1 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640

19.1.6.2.7.1.1 Latitude <Lat>

Presence: [1..1]

Definition: Angular distance of a location on the earth south or north of the equator.

The latitude is 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 the Eiffel Tower latitude.

Datatype: "Max35Text" on page 929

19.1.6.2.7.1.2 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: 23°27'30" E.

Datatype: "Max35Text" on page 929

19.1.6.2.7.2 UTMCoordinates <UTMCordints>

Presence: [0..1]

Definition: Geographic location specified by UTM coordinates.

UTMCoordinates <UTMCordints> contains the following **GeolocationUTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwr>	[1..1]	Text		641

19.1.6.2.7.2.1 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).

Datatype: "Max35Text" on page 929

19.1.6.2.7.2.2 UTMEastward <UTMEstwr>

Presence: [1..1]

Definition: X-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 929

19.1.6.2.7.2.3 UTMNorthward <UTMNrthwrd>

Presence: [1..1]

Definition: Y-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 929

19.1.6.3 GenericIdentification176

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		641
	Type <Tp>	[0..1]	CodeSet		641
	Issuer <Issr>	[0..1]	CodeSet		642
	Country <Ctry>	[0..1]	Text		642
	ShortName <ShrtNm>	[0..1]	Text		642

19.1.6.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 929

19.1.6.3.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType33Code" on page 897

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.

CodeName	Name	Definition
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TAXH	TaxAuthority	Tax authority.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

19.1.6.3.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType33Code" on page 897

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TAXH	TaxAuthority	Tax authority.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

19.1.6.3.4 Country <Ctry>

Presence: [0..1]

Definition: Country of the entity (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 931

19.1.6.3.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 929

19.1.6.4 GenericIdentification90

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		643
	Type <Tp>	[1..1]	CodeSet		643
	Issuer <Issr>	[0..1]	CodeSet		643
	Country <Ctry>	[0..1]	Text		644
	ShortName <ShrtNm>	[0..1]	Text		644

19.1.6.4.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 929

19.1.6.4.2 Type <Tp>

Presence: [1..1]

Definition: Type of identified entity.

Datatype: "PartyType14Code" on page 896

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ICCA	CardApplication	Application in the smart card.

19.1.6.4.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType4Code" on page 898

CodeName	Name	Definition
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
TAXH	TaxAuthority	Tax authority.

19.1.6.4.4 Country <Ctry>

Presence: [0..1]

Definition: Country of the entity (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 931

19.1.6.4.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 929

19.1.6.5 GenericIdentification36

Definition: Identification using a proprietary scheme.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		644
	Issuer <Issr>	[1..1]	Text		644
	SchemeName <SchmeNm>	[0..1]	Text		645

19.1.6.5.1 Identification <Id>

Presence: [1..1]

Definition: Proprietary information, often a code, issued by the data source scheme issuer.

Datatype: "Max35Text" on page 929

19.1.6.5.2 Issuer <Issr>

Presence: [1..1]

Definition: Entity that assigns the identification.

Datatype: "Max35Text" on page 929

19.1.6.5.3 SchemeName <SchmeNm>

Presence: [0..1]

Definition: Short textual description of the scheme.

Datatype: "Max35Text" on page 929

19.1.6.6 GenericIdentification4

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		645
	IdentificationType <IdTp>	[1..1]	Text		645

19.1.6.6.1 Identification <Id>

Presence: [1..1]

Definition: Identifier issued to a person for which no specific identifier has been defined.

Datatype: "Max35Text" on page 929

19.1.6.6.2 IdentificationType <IdTp>

Presence: [1..1]

Definition: Specifies the nature of the identifier.

Usage: IdentificationType is used to specify what kind of identifier is used. It should be used in case the identifier is different from the identifiers listed in the pre-defined identifier list.

Datatype: "Max35Text" on page 929

19.1.7 Miscellaneous

19.1.7.1 SupplementaryData1

Definition: Additional information that can not be captured in the structured fields and/or any other specific block.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PlaceAndName <PlcAndNm>	[0..1]	Text		645
	Envelope <Envlp>	[1..1]	(External Schema)		646

Constraints

- **SupplementaryDataRule**

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

19.1.7.1.1 PlaceAndName <PlcAndNm>

Presence: [0..1]

Definition: Unambiguous reference to the location where the supplementary data must be inserted in the message instance.

In the case of XML, this is expressed by a valid XPath.

Datatype: "Max350Text" on page 929

19.1.7.1.2 Envelope <Envlp>

Presence: [1..1]

Definition: Technical element wrapping the supplementary data.

Type: (External Schema)

Technical component that contains the validated supplementary data information. This technical envelope allows to segregate the supplementary data information from any other information.

19.1.7.2 DataSetIdentification8

Definition: Identification of a data set.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		646
	Type <Tp>	[1..1]	CodeSet		646
	Version <Vrsn>	[0..1]	Text		647
	CreationDateTime <CreDtTm>	[0..1]	DateTime		647

19.1.7.2.1 Name <Nm>

Presence: [0..1]

Definition: Name of the data set.

Datatype: "Max256Text" on page 928

19.1.7.2.2 Type <Tp>

Presence: [1..1]

Definition: Category of data set.

Datatype: "DataSetCategory14Code" on page 885

CodeName	Name	Definition
AQPR	AcquirerParameters	Acquirer specific configuration parameters for the point of interaction (POI) system.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
TXCP	BatchCapture	Batch upload of transaction data (data capture of a group of transactions).
AKCP	CaptureResponse	Batch download response for the batch capture of transactions.

CodeName	Name	Definition
DLGT	DelegationData	Data needed to create a terminal management sub-domain.
MGTP	ManagementPlan	Configuration of management plan in the point of interaction.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
SCPR	SecurityParameters	Point of interaction parameters related to the security of software application and application protocol.
SWPK	SoftwareModule	Software module.
STRP	StatusReport	Report of software configuration and parameter status.
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
VDPR	VendorParameters	Point of interaction parameters defined by the manufacturer for instance the PIN verification capabilities.
PARA	Parameters	Any combination of configuration parameters for the point of interaction (POI).
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
LOGF	LogFile	Any repository used for recording log traces.
CMRQ	CertificateManagementRequest	Trigger for CertificateManagementRequest.
MDFL	MediaFile	Media file managed by an application of the POI.
SOFT	SoftwareApplication	Software Application or module of the POI.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

19.1.7.2.3 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data set.

Datatype: "Max256Text" on page 928

19.1.7.2.4 CreationDateTime <CreDtTm>

Presence: [0..1]

Definition: Date and time of creation of the data set.

Datatype: "ISODateTime" on page 923

19.1.7.3 CustomerOrder1

Definition: Customer order attached to a customer, recorded in the POI system.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdrid>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefld>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

19.1.7.3.1 CustomerOrderIdentification <CstmrOrdrid>

Presence: [1..1]

Definition: Identification of a customer order.

Datatype: "Max35Text" on page 929

19.1.7.3.2 SaleReferenceIdentification <SaleRefld>

Presence: [1..1]

Definition: Identification of a Sale transaction for a sequence of related POI transactions.

Datatype: "Max35Text" on page 929

19.1.7.3.3 OpenOrderState <OpnOrdStat>

Presence: [0..1]

Definition: Specifies if a customer order is currently open.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.3.4 StartDate <StartDt>

Presence: [1..1]

Definition: Date time of the beginning of an operation.

Datatype: "ISODateTime" on page 923

19.1.7.3.5 EndDate <EndDt>

Presence: [0..1]

Definition: Date time of the end of an operation.

Datatype: "ISODatetime" on page 923

19.1.7.3.6 Unit <Unit>

Presence: [0..1]

Definition: Unit of amount.

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

19.1.7.3.7 ForecastedAmount <FrcstdAmt>

Presence: [1..1]

Definition: Initial or global amount of the order.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.3.8 CurrentAmount <CurAmt>

Presence: [0..1]

Definition: Total amount of all completed transactions of a customer order.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.3.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of monetary amount.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.3.10 AccessedBy <AccsdBy>

Presence: [0..1]

Definition: Identification of an entity accessing data to perform an operation.

Datatype: "Max35Text" on page 929

19.1.7.3.11 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Unqualified information related to customer order.

Datatype: "Max1025Text" on page 927

19.1.7.4 RetailerPaymentResult2

Definition: Payment Data Results.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		653
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		654
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		654
	RequestedTransaction <ReqdTxx>	[0..1]	±		655
	TransactionResponse <TxRspn>	[0..1]			658
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrctcdBal>	[0..1]	±		669
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676
	Amount <Amt>	[1..1]	Amount		676

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <DclrtnDtls>	[0..*]	±		677
	CustomerOrder <CstmrOrd>	[0..*]	±		677
	ImageCapturedSignature <ImgCaptrdSgntr>	[0..1]			678
	ImageFormat <ImgFrmt>	[1..1]	Text		678
	ImageData <ImgData>	[0..1]	Binary		678
	ImageReference <ImgRef>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679
	ProtectedCapturedSignature <PrctcdCaptrdSgntr>	[0..1]	±		679
	MerchantOverrideFlag <MrchntOvrddFlg>	[0..1]	Indicator		679
	CustomerLanguage <CstmrLang>	[0..1]	CodeSet	C6	679
	OnlineFlag <OnlnFlg>	[0..1]	Indicator		679

19.1.7.4.1 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of payment transaction.

Datatype: "CardPaymentServiceType12Code" on page 879

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.

CodeName	Name	Definition
PINC	PINChange	PIN (Personal Identification Number) change.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
VALC	ValidityCheck	Card validity check.
UNLD	Unloading	Unloading non-financial account.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CIDD	CardInitiatingDirectDebit	Direct Debit initiated by Card.

19.1.7.4.2 AdditionalService <AddtlSvc>

Presence: [0..*]

Definition: Service provided by the card payment transaction, in addition to the main service.

Datatype: "CardPaymentServiceType9Code" on page 882

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
VCAU	VoiceAuthorisation	Voice authorisation.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
CSHB	CashBack	Card payment with cash-back.
INST	Instant	Instant transaction.
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.

19.1.7.4.3 ServiceAttribute <SvcAttr>

Presence: [0..1]

Definition: Additional attribute of the service type.

Datatype: "CardPaymentServiceType3Code" on page 881

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

19.1.7.4.4 RequestedTransaction <ReqdTxx>

Presence: [0..1]

Definition: Data associated with the Transaction.

RequestedTransaction <ReqdTxx> contains the following elements (see
"CardPaymentTransaction100" on page 597 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionCapture <TxCaptr>	[0..1]	Indicator		600
	TransactionType <TxTp>	[1..1]	CodeSet		600
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		601
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		602
	LastTransactionFlag <LastTxFlg>	[0..1]	Indicator		602
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		602
	SaleReferenceIdentification <SaleRefId>	[0..1]	Text		602
	TransactionIdentification <TxId>	[1..1]	±		602
	OriginalTransaction <OrgnlTx>	[0..1]	±		603
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		605
	IssuerReferenceData <IssrRefData>	[0..1]	Text		605
	TransactionDetails <TxDtls>	[1..1]			605
	Currency <Ccy>	[0..1]	CodeSet	C1	607
	TotalAmount <TtlAmt>	[1..1]	Amount		608
	CumulativeAmount <CmltvAmt>	[0..1]	Amount		608
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		608
	DetailedAmount <DtldAmt>	[0..1]	±		608
	RequestedAmount <ReqdAmt>	[0..1]	Amount		609
	AuthorisedAmount <AuthrsdAmt>	[0..1]	Amount		609
	InvoiceAmount <InvcAmt>	[0..1]	Amount		609
	ValidityDate <VldtyDt>	[0..1]	Date		609
	OnLineReason <OnLineRsn>	[0..*]	CodeSet		609
	UnattendedLevelCategory <UatnndLv/Ctgy>	[0..1]	Text		610
	AccountType <AcctTp>	[0..1]	CodeSet		610
	CurrencyConversionResult <CcyConvrsRslt>	[0..1]			611
	AcceptedByCardholder <AccptdByCrdhlr>	[0..1]	Indicator		613
	Conversion <Convrs>	[0..1]			613
	CurrencyConversionIdentification <CcyConvrsId>	[0..1]	Text		614
	TargetCurrency <TrgtCcy>	[1..1]			615
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	615

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NumericCode <NmrcCd>	[1..1]	Text		615
	Decimal <Dcml>	[1..1]	Quantity		615
	Name <Nm>	[0..1]	Text		615
	ResultingAmount <RsltgAmt>	[1..1]	Amount		615
	ExchangeRate <XchgRate>	[1..1]	Rate		616
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		616
	QuotationDate <QtnDt>	[0..1]	DateTime		616
	ValidUntil <VldUntil>	[0..1]	DateTime		616
	SourceCurrency <SrcCcy>	[1..1]			616
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	616
	NumericCode <NmrcCd>	[0..1]	Text		617
	Decimal <Dcml>	[0..1]	Quantity		617
	Name <Nm>	[0..1]	Text		617
	OriginalAmount <OrgnlAmt>	[1..1]			617
	ActualAmount <ActlAmt>	[0..1]	Amount		617
	MinimumAmount <MinAmt>	[0..1]	Amount		617
	MaximumAmount <MaxAmt>	[0..1]	Amount		618
	CommissionDetails <ComssnDtls>	[0..*]			618
	Amount <Amt>	[1..1]	Amount		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	MarkUpDetails <MrkUpDtls>	[0..*]			618
	Rate <Rate>	[1..1]	Rate		618
	AdditionalInformation <AddtlInf>	[0..1]	Text		618
	DeclarationDetails <DclrnDtls>	[0..*]	±		619
	Instalment <Instlmt>	[0..1]	±		619
	AggregationTransaction <AggtnTx>	[0..1]	±		620
	ProductCodeSetIdentification <PdctCdSetId>	[0..1]	Text		620
	SaleItem <SaleItem>	[0..*]	±		621
	DeliveryLocation <DlvryLctn>	[0..1]	Text		621
	AdditionalInformation <AddtlInf>	[0..*]			621
	Identification <Id>	[1..1]	Text		622

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Value <Val>	[0..1]	Binary		622
	ProtectedValue <PrctcdVal>	[0..1]	±		622
	Type <Tp>	[0..1]	Text		622
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		622
	MerchantReferenceData <MrchntRefData>	[0..1]	Text		623
	CustomerOrder <CstmrOrd>	[0..1]	±		623
	CustomerToken <CstmrTkn>	[0..1]	±		623
	CustomerConsent <CstmrCnsnt>	[0..1]	Indicator		624
	CardProgrammeProposed <CardPrgrmmPropsd>	[0..*]	Text		624
	CardProgrammeApplied <CardPrgrmmApld>	[0..1]	Text		624
	SaleToPOIData <SaleToPOIData>	[0..1]	Text		624
	SaleToAcquirerData <SaleToAcqrrData>	[0..1]	Text		625
	SaleToIssuerData <SaleToIssrData>	[0..1]	Text		625
	AdditionalTransactionData <AddtlTxData>	[0..*]	Text		625

19.1.7.4.5 TransactionResponse <TxRspn>

Presence: [0..1]

Definition: Result of the transaction processing.

TransactionResponse <TxRspn> contains the following **CardPaymentTransaction94** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationResult <AuthstnRslt>	[1..1]			661
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			663
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <Rslt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRslt>	[0..1]	Text		665
	AllowedProductCode <AllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	NotAllowedProductCode <NotAllwdPdctCd>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666
	AdditionalAvailableProduct <AddtlAvlblPdct>	[0..*]			666
	ProductCode <PdctCd>	[1..1]	Text		667
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667
	Balance <Bal>	[0..1]	±		669
	ProtectedBalance <PrctdBal>	[0..1]	±		669

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Action <Actn>	[0..*]			670
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671
	CurrencyConversionEligibility <CcyConvsElgblty>	[0..1]			671
	CurrencyConversionIdentification <CcyConvsId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <DclrtnDtls>	[0..*]	±		677

19.1.7.4.5.1 AuthorisationResult <AuthstnRslt>

Presence: [1..1]

Definition: Outcome of the authorisation, and actions to perform.

AuthorisationResult <AuthstnRslt> contains the following **AuthorisationResult14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]	±		661
	ResponseToAuthorisation <RspnToAuthstn>	[1..1]			661
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662
	AuthorisationCode <AuthstnCd>	[0..1]	Text		662
	CompletionRequired <CmpltnReqrd>	[0..1]	Indicator		662
	TMSTrigger <TMSTrggr>	[0..1]			663
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663

19.1.7.4.5.1.1 AuthorisationEntity <AuthstnNtty>

Presence: [0..1]

Definition: Type of party that has delivered or declined the card payment authorisation (the party is not identified).

AuthorisationEntity <AuthstnNtty> contains the following elements (see "[GenericIdentification90](#)" on page 643 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		643
	Type <Tp>	[1..1]	CodeSet		643
	Issuer <Issr>	[0..1]	CodeSet		643
	Country <Ctry>	[0..1]	Text		644
	ShortName <ShrtNm>	[0..1]	Text		644

19.1.7.4.5.1.2 ResponseToAuthorisation <RspnToAuthstn>

Presence: [1..1]

Definition: Response to an authorisation request.

ResponseToAuthorisation <RspnToAuthstn> contains the following **ResponseType10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		662
	ResponseReason <RspnRsn>	[0..1]	Text		662
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		662

19.1.7.4.5.1.2.1 Response <Rspn>

Presence: [1..1]

Definition: Result of the transaction.

Datatype: "Response9Code" on page 904

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
PART	PartialApproved	Service has been partially provided.
SUSP	Suspended	Transaction has been received but hasn't been processed.
TECH	TechnicalError	Service cannot be provided for technical reason (eg timeout contacting the Issuer, security problem).

19.1.7.4.5.1.2.2 ResponseReason <RspnRsn>

Presence: [0..1]

Definition: Detailed result of the transaction.

Datatype: "Max35Text" on page 929

19.1.7.4.5.1.2.3 AdditionalResponseInformation <AddtlRspnInf>

Presence: [0..1]

Definition: Additional information on the response for further examination.

Datatype: "Max140Text" on page 927

19.1.7.4.5.1.3 AuthorisationCode <AuthstnCd>

Presence: [0..1]

Definition: Value assigned by the authorising party.

Datatype: "Min6Max8Text" on page 932

19.1.7.4.5.1.4 CompletionRequired <CmpltnReqrd>

Presence: [0..1]

Definition: Indicates whether the acquirer requires a further exchange completion after the completion of the transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.4.5.1.5 TMSTrigger <TMSTrgr>

Presence: [0..1]

Definition: Instructs the point of interaction (POI) how to contact the host to initiate the maintenance of the terminal.

TMSTrigger <TMSTrgr> contains the following **TMSTrigger1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TMSContactLevel <TMSCtctLvl>	[1..1]	CodeSet		663
	TMSIdentification <TMSId>	[0..1]	Text		663
	TMSContactDateTime <TMSCtctDtTm>	[0..1]	DateTime		663

19.1.7.4.5.1.5.1 TMSContactLevel <TMSCtctLvl>

Presence: [1..1]

Definition: Level of urgency in contacting the maintenance.

Datatype: "TMSContactLevel1Code" on page 918

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

19.1.7.4.5.1.5.2 TMSIdentification <TMSId>

Presence: [0..1]

Definition: Identification of the host to contact for the maintenance.

Datatype: "Max35Text" on page 929

19.1.7.4.5.1.5.3 TMSContactDateTime <TMSCtctDtTm>

Presence: [0..1]

Definition: Date and time for calling the maintenance.

Datatype: "ISODateTime" on page 923

19.1.7.4.5.2 TransactionVerificationResult <TxVrfctnRsIt>

Presence: [0..*]

Definition: Result of the verifications performed by the issuer to deliver or decline the authorisation.

TransactionVerificationResult <TxVrfctnRsIt> contains the following
TransactionVerificationResult4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Method <Mtd>	[1..1]	CodeSet		664
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		665
	Result <RsIt>	[0..1]	CodeSet		665
	AdditionalResult <AddtlRsIt>	[0..1]	Text		665

19.1.7.4.5.2.1 Method <Mtd>

Presence: [1..1]

Definition: Method of verification that has been performed.

Datatype: "AuthenticationMethod6Code" on page 873

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
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.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
ADDB	BillingAddressVerification	Cardholder billing address verification.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.
MANU	ManualVerification	Manual verification, for example passport or drivers license.

CodeName	Name	Definition
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

19.1.7.4.5.2.2 VerificationEntity <VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 872

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.

19.1.7.4.5.2.3 Result <Rslt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 923

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.

19.1.7.4.5.2.4 AdditionalResult <AddtlRslt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 930

19.1.7.4.5.3 AllowedProductCode <AllwdPdctCd>

Presence: [0..*]

Definition: Product code which are allowed by the payment card.

AllowedProductCode <AllwdPdctCd> contains the following **Product4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666

19.1.7.4.5.3.1 ProductCode <PdctCd>

Presence: [1..1]

Definition: Product code.

Datatype: "Max70Text" on page 930

19.1.7.4.5.3.2 AdditionalProductCode <AddtlPdctCd>

Presence: [0..1]

Definition: Additional product code related to the product.

Datatype: "Max70Text" on page 930

19.1.7.4.5.4 NotAllowedProductCode <NotAllwdPdctCd>

Presence: [0..*]

Definition: Product code not allowed by the payment card.

NotAllowedProductCode <NotAllwdPdctCd> contains the following **Product4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProductCode <PdctCd>	[1..1]	Text		666
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		666

19.1.7.4.5.4.1 ProductCode <PdctCd>

Presence: [1..1]

Definition: Product code.

Datatype: "Max70Text" on page 930

19.1.7.4.5.4.2 AdditionalProductCode <AddtlPdctCd>

Presence: [0..1]

Definition: Additional product code related to the product.

Datatype: "Max70Text" on page 930

19.1.7.4.5.5 AdditionalAvailableProduct <AddtlAvlblPdct>

Presence: [0..*]

Definition: Products that may be added to the purchase after the authorisation.

AdditionalAvailableProduct <AddtlAvlblPdct> contains the following **Product5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProductCode <PdctCd>	[1..1]	Text		667
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		667
	AmountLimit <AmtLmt>	[0..1]	Amount		667
	QuantityLimit <QtyLmt>	[0..1]	Quantity		667
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		667

19.1.7.4.5.5.1 ProductCode <PdctCd>

Presence: [1..1]

Definition: Product code of the item.

Datatype: "Max70Text" on page 930

19.1.7.4.5.5.2 AdditionalProductCode <AddtlPdctCd>

Presence: [0..1]

Definition: Additional product code related to the product.

Datatype: "Max70Text" on page 930

19.1.7.4.5.5.3 AmountLimit <AmtLmt>

Presence: [0..1]

Definition: Amount limit for the product.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.4.5.5.4 QuantityLimit <QtyLmt>

Presence: [0..1]

Definition: Quantity limit for the product.

Datatype: "DecimalNumber" on page 925

19.1.7.4.5.5.5 UnitOfMeasure <UnitOfMeasr>

Presence: [0..1]

Definition: Unit of measure of the item purchased.

Datatype: "UnitOfMeasure6Code" on page 921

CodeName	Name	Definition
PIEC	Piece	Standard length of cloth, wallpaper, as an item for sale or amount of a substance.
TONS	Ton	Measure of weight, in Britain 2240lb (long ton)and in the US 2000lb (short ton).
FOOT	Foot	Unit of length equal to 1/3 yard.

CodeName	Name	Definition
GBGA	GBGallon	Unit of volume that is equal to 8 pints.
USGA	USGallon	Unit of volume that is equal to 8 pints.
GRAM	Gram	Unit of measure that is equal to a 1, 000th of a kilo.
INCH	Inch	Measure of length equal to 2.54 cm.
KILO	Kilogram	Basic unit of mass in the SI system, 1000 grams.
PUND	Pound	Unit of weight equal to 0.454 kilograms.
METR	Metre	Unit of length in the metric system, equal to 39.37 inches.
CMET	Centimetre	Unit of measure that is equal to one hundredth of a metre.
MMET	Millimetre	Unit of measure that is a thousandth of one metre.
LITR	Litre	Unit of volume that is equal to a thousand cubic centimetres.
CELI	Centilitre	Unit of volume that is equal to one hundredth of a litre.
MILI	MilliLitre	Unit of volume that is equal to one thousandth of a litre.
GBOU	GBOunce	Unit of weight equal to a sixteenth of a pound.
USOU	USOunce	Unit of weight equal to a sixteenth of a pound.
GBQA	GBQuart	Unit of volume that is equal to 2 pints.
USQA	USQuart	Unit of volume that is equal to 2 pints.
GBPI	GBPint	Unit of volume that is equal to 568 cubic centimetres.
USPI	USPint	Unit of volume that is equal to 473 cubic centimetres.
MILE	Mile	Unit of length equal to 1, 760 yards.
KMET	Kilometre	Unit of measure that is equal to 1, 000 meters.
YARD	Yard	Unit of length equal to 3 feet or 0.9144 metre.
SQKI	SquareKilometre	Measure of a surface, one kilometre by one kilometre.
HECT	Hectare	Unit of measure that is equal to 10, 000 square meters.
ARES	Are	Unit of measure equal to a 100 square meters.
SMET	SquareMetre	Measure of a surface, one metre by one metre.

CodeName	Name	Definition
SCMT	SquareCentimetre	Measure of a surface, one centimetre by one centimetre.
SMIL	SquareMillimetre	Measure of a surface, one millimetre by one millimetre.
SQMI	SquareMile	Measure of a surface, one mile by one mile.
SQYA	SquareYard	Measure of a surface, one yard by one yard.
SQFO	SquareFoot	Measure of a surface, one foot by one foot.
SQIN	SquareInch	Measure of a surface, one inch by one inch.
ACRE	Acre	Unit of measure equal to 4, 840 square yards.
KWHO	KilowattHours	Unit of measure that is equal to the power consumption of one kilowatt during one hour.
DGEU	DieselGallonEquivalent	Amount of fuel alternative equal to one gallon of diesel.
GGEU	GasolineGallonEquivalent	Amount of fuel alternative equal to one gallon of gasoline.

19.1.7.4.5.6 Balance <Bal>

Presence: [0..1]

Definition: Balance and currency code of the account, related to the payment.

Balance <Bal> contains the following elements (see "[AmountAndDirection93](#)" on page 592 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		592
	Currency <Ccy>	[1..1]	CodeSet	C1	592
	Sign <Sgn>	[0..1]	Indicator		593

19.1.7.4.5.7 ProtectedBalance <PrctcdBal>

Presence: [0..1]

Definition: Encrypted balance of the account.

ProtectedBalance <PrctcdBal> contains the following elements (see "[ContentInformationType22](#)" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.4.5.8 Action <Actn>

Presence: [0..*]

Definition: Set of actions to be performed by the POI (Point Of Interaction) system.

Action <Actn> contains the following **Action10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActionType <ActnTp>	[1..1]	CodeSet		670
	MessageToPresent <MsgToPres>	[0..1]	±		671

19.1.7.4.5.8.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action to be performed by the POI (Point Of Interaction) system.

Datatype: "ActionType9Code" on page 863

CodeName	Name	Definition
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
NOVR	ForbidOverride	Payment application cannot propose to the merchant an override of the payment transaction.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
PRNT	PrintMessage	Print a message.
RFRL	Referral	Referral has to be performed.
RQDT	RequestData	Request additional data through a displayed text and request confirmation by an attendant.
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FLFW	FallForward	Fall-forward from contactless to chip card transaction required.
PINQ	PINRequest	Request Cardholder Authentication through PIN insertion.
CDCV	ConsumerDeviceCardholderVerificationMethod	Request Cardholder Authentication according to the ConsumerDeviceCardholderVerification Method.
CHDA	CardholderAuthentication	Additional authentication of cardholder required.

19.1.7.4.5.8.2 MessageToPresent <MsgToPres>

Presence: [0..1]

Definition: Message to be displayed to the cardholder or the cashier.

MessageToPresent <MsgToPres> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.7.4.5.9 CurrencyConversionEligibility <CcyConvseElgblty>

Presence: [0..1]

Definition: Conversion between the currency of a card acceptor and the currency of a card issuer, provided by a dedicated service provider. The currency conversion has to be proposed to the cardholder.

CurrencyConversionEligibility <CcyConvslElgblty> contains the following **CurrencyConversion19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CurrencyConversionIdentification <CcyConvslId>	[0..1]	Text		672
	TargetCurrency <TrgtCcy>	[1..1]			673
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673
	ResultingAmount <RsltgtAmt>	[1..1]	Amount		674
	ExchangeRate <XchgRate>	[1..1]	Rate		674
	InvertedExchangeRate <NvrtdXchgRate>	[0..1]	Rate		674
	QuotationDate <QtnDt>	[0..1]	DateTime		674
	ValidUntil <VldUntil>	[0..1]	DateTime		674
	SourceCurrency <SrcCcy>	[1..1]			674
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675
	OriginalAmount <OrgnlAmt>	[1..1]			675
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676
	CommissionDetails <ComssnDtls>	[0..*]			676
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676
	MarkUpDetails <MrkUpDtls>	[0..*]			676
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677
	DeclarationDetails <Dclrtndtls>	[0..*]	±		677

19.1.7.4.5.9.1 CurrencyConversionIdentification <CcyConvslId>

Presence: [0..1]

Definition: Identification of the currency conversion operation for the service provider.

Datatype: "Max35Text" on page 929

19.1.7.4.5.9.2 TargetCurrency <TrgtCcy>

Presence: [1..1]

Definition: Currency into which the amount is converted (ISO 4217, 3 alphanumeric characters).

TargetCurrency <TrgtCcy> contains the following **CurrencyDetails3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AlphaCode <AlphaCd>	[1..1]	CodeSet	C1	673
	NumericCode <NmrcCd>	[1..1]	Text		673
	Decimal <Dcml>	[1..1]	Quantity		673
	Name <Nm>	[0..1]	Text		673

19.1.7.4.5.9.2.1 AlphaCode <AlphaCd>

Presence: [1..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.4.5.9.2.2 NumericCode <NmrcCd>

Presence: [1..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.7.4.5.9.2.3 Decimal <Dcml>

Presence: [1..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.7.4.5.9.2.4 Name <Nm>

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.7.4.5.9.3 ResultingAmount <RsltgAmt>

Presence: [1..1]

Definition: Amount converted in the target currency, including additional charges.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.4.5.9.4 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 926

19.1.7.4.5.9.5 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 926

19.1.7.4.5.9.6 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 923

19.1.7.4.5.9.7 ValidUntil <VldUntil>

Presence: [0..1]

Definition: Validity limit of the exchange rate.

Datatype: "ISODateTime" on page 923

19.1.7.4.5.9.8 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
	AlphaCode <AlphaCd>	[0..1]	CodeSet	C1	674
	NumericCode <NmrcCd>	[0..1]	Text		675
	Decimal <Dcml>	[0..1]	Quantity		675
	Name <Nm>	[0..1]	Text		675

19.1.7.4.5.9.8.1 AlphaCode <AlphaCd>

Presence: [0..1]

Definition: Alpha currency code (ISO 4217, 3 alphanumeric characters).

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.4.5.9.8.2 NumericCode <NmrcCd>

Presence: [0..1]

Definition: Numeric currency code (ISO 4217, 3 numeric characters).

Datatype: "Exact3NumericText" on page 927

19.1.7.4.5.9.8.3 Decimal <Dcml>

Presence: [0..1]

Definition: Maximal number of digits after the decimal separator for the currency.

Datatype: "Number" on page 926

19.1.7.4.5.9.8.4 Name <Nm>

Presence: [0..1]

Definition: Full name of the currency.

Datatype: "Max35Text" on page 929

19.1.7.4.5.9.9 OriginalAmount <OrgnlAmt>

Presence: [1..1]

Definition: Original amount in the source currency.

OriginalAmount <OrgnlAmt> contains the following **OriginalAmountDetails1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActualAmount <ActlAmt>	[0..1]	Amount		675
	MinimumAmount <MinAmt>	[0..1]	Amount		675
	MaximumAmount <MaxAmt>	[0..1]	Amount		676

19.1.7.4.5.9.9.1 ActualAmount <ActlAmt>

Presence: [0..1]

Definition: Actual amount to be converted.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.4.5.9.9.2 MinimumAmount <MinAmt>

Presence: [0..1]

Definition: Minimum amount for conversion (in case of range of amounts).

Datatype: ["ImpliedCurrencyAndAmount"](#) on page 860

19.1.7.4.5.9.9.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum amount for conversion (in case of range of amounts).

Datatype: ["ImpliedCurrencyAndAmount"](#) on page 860

19.1.7.4.5.9.10 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
	Amount <Amt>	[1..1]	Amount		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		676

19.1.7.4.5.9.10.1 Amount <Amt>

Presence: [1..1]

Definition: Commission expressed as an amount of money.

Datatype: ["ImpliedCurrencyAndAmount"](#) on page 860

19.1.7.4.5.9.10.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of commission.

Datatype: ["Max350Text"](#) on page 929

19.1.7.4.5.9.11 MarkupDetails <MrkUpDtls>

Presence: [0..*]

Definition: Markup made as part of a currency conversion.

MarkupDetails <MrkUpDtls> contains the following **Commission18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Rate <Rate>	[1..1]	Rate		676
	AdditionalInformation <AddtlInf>	[0..1]	Text		677

19.1.7.4.5.9.11.1 Rate <Rate>

Presence: [1..1]

Definition: Commission expressed as a percentage.

Datatype: ["PercentageRate"](#) on page 926

19.1.7.4.5.9.11.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the type of markup.

Datatype: "Max350Text" on page 929

19.1.7.4.5.9.12 DeclarationDetails <Dclrtndtls>

Presence: [0..*]

Definition: Card scheme declaration (disclaimer) to present to the cardholder.

DeclarationDetails <Dclrtndtls> contains the following elements (see "ActionMessage7" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.7.4.6 CustomerOrder <CstmrOrdr>

Presence: [0..*]

Definition: Customer order attached to a customer, recorded in the POI system.

CustomerOrder <CstmrOrd> contains the following elements (see "[CustomerOrder1](#)" on page 648 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CustomerOrderIdentification <CstmrOrdId>	[1..1]	Text		648
	SaleReferenceIdentification <SaleRefId>	[1..1]	Text		648
	OpenOrderState <OpnOrdStat>	[0..1]	Indicator		648
	StartDate <StartDt>	[1..1]	DateTime		648
	EndDate <EndDt>	[0..1]	DateTime		649
	Unit <Unit>	[0..1]	CodeSet		649
	ForecastedAmount <FrcstdAmt>	[1..1]	Amount		649
	CurrentAmount <CurAmt>	[0..1]	Amount		649
	Currency <Ccy>	[0..1]	CodeSet	C1	649
	AccessedBy <AccsdBy>	[0..1]	Text		649
	AdditionalInformation <AddtlInf>	[0..1]	Text		650

19.1.7.4.7 ImageCapturedSignature <ImgCaptrdSgntr>

Presence: [0..1]

Definition: Numeric value of a handwritten signature.

ImageCapturedSignature <ImgCaptrdSgntr> contains the following **CapturedSignature1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ImageFormat <ImgFrmt>	[1..1]	Text		678
	ImageData <ImgData>	[0..1]	Binary		678
	ImageReference <ImgRef>	[0..1]	Text		679
	AdditionalInformation <AddtlInf>	[0..1]	Text		679

19.1.7.4.7.1 ImageFormat <ImgFrmt>

Presence: [1..1]

Definition: Format of the image.

Datatype: "[Max35Text](#)" on page 929

19.1.7.4.7.2 ImageData <ImgData>

Presence: [0..1]

Definition: Data of the image.

Datatype: "[Max2MBBinary](#)" on page 861

19.1.7.4.7.3 ImageReference <ImgRef>

Presence: [0..1]

Definition: URL or name of the image.

Datatype: "Max500Text" on page 930

19.1.7.4.7.4 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information for the image.

Datatype: "Max140Text" on page 927

19.1.7.4.8 ProtectedCapturedSignature <PrctcdCaptrdSgntr>

Presence: [0..1]

Definition: Protected value of a handwritten signature.

ProtectedCapturedSignature <PrctcdCaptrdSgntr> contains the following elements (see "ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.4.9 MerchantOverrideFlag <MrchntOvrrdFlg>

Presence: [0..1]

Definition: Indicate that the Merchant forced the result of the payment to successful.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.4.10 CustomerLanguage <CstmrLang>

Presence: [0..1]

Definition: Language used to display messages to the customer.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**
Must be a valid terrestrial language.

19.1.7.4.11 OnlineFlag <OnlnFlg>

Presence: [0..1]

Definition: Indicate that the payment transaction processing has required the approval of an acquirer.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.5 PointOfInteractionCapabilities9

Definition: Capabilities of the POI (Point Of Interaction) performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[0..*]	CodeSet		680
	CardholderVerificationCapabilities <CrhdldrVrfctnCpblties>	[0..*]	CodeSet		681
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		682
	ApprovalCodeLength <ApprvICdLngh>	[0..1]	Quantity		682
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		682
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		682
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		682
	MessageCapabilities <MsgCpblties>	[0..*]			682
	Destination <Dstn>	[1..*]	CodeSet		683
	AvailableFormat <AvlblFrmt>	[0..*]	CodeSet		683
	NumberOfLines <NbOfLines>	[0..1]	Quantity		683
	LineWidth <LineWidth>	[0..1]	Quantity		683
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet	C6	684

19.1.7.5.1 CardReadingCapabilities <CardRdngCpblties>

Presence: [0..*]

Definition: Card reading capabilities of the POI (Point Of Interaction) performing the transaction.

Datatype: "CardDataReading8Code" on page 878

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.

CodeName	Name	Definition
CTLS	ProximityReader	Contactless proximity reader.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.5.2 CardholderVerificationCapabilities <CrhdldrVrfctnCpblties>

Presence: [0..*]

Definition: Cardholder verification capabilities of the POI (Point Of Interaction) performing the transaction.

Datatype: "CardholderVerificationCapability4Code" on page 878

CodeName	Name	Definition
APKI	AccountDigitalSignature	Account based digital signature.
CHDT	CardholderData	Cardholder authentication data.
MNSG	ManualSignature	Manual signature verification.
MNVR	ManualVerification	Other manual verification, for example passport or drivers license.
FBIG	OfflineBiographics	Offline biographics.
FBIO	OfflineBiometrics	Offline biometrics.
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FCPN	OfflinePINClear	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
SCEC	SecureElectronicCommerce	Three domain secure (three domain secure authentication of the cardholder).
NBIO	OnLineBiometrics	Online biometrics.
NOVF	NoCapabilities	No cardholder verification capability.
OTHR	Other	Other cardholder verification capabilities.

19.1.7.5.3 PINLengthCapabilities <PINLnghCpblties>

Presence: [0..1]

Definition: Maximum number of digits the POI is able to accept when the cardholder enters its PIN.

Datatype: "PositiveNumber" on page 926

19.1.7.5.4 ApprovalCodeLength <ApprvlCdLngh>

Presence: [0..1]

Definition: Maximum number of characters of the approval code the POI is able to manage.

Datatype: "PositiveNumber" on page 926

19.1.7.5.5 MaxScriptLength <MxScrptLngh>

Presence: [0..1]

Definition: Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

Datatype: "PositiveNumber" on page 926

19.1.7.5.6 CardCaptureCapable <CardCaptrCpbl>

Presence: [0..1]

Definition: True if the POI is able to capture card.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.5.7 OnLineCapabilities <OnLineCpblties>

Presence: [0..1]

Definition: On-line and off-line capabilities of the POI (Point Of Interaction).

Datatype: "OnLineCapability1Code" on page 895

CodeName	Name	Definition
OFLN	OffLine	Off-line only capable.
ONLN	OnLine	On-line only capable.
SMON	SemiOffLine	Off-line capable with possible on-line requests to the acquirer.

19.1.7.5.8 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 **DisplayCapabilities4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Destination <Dstn>	[1..*]	CodeSet		683
	AvailableFormat <AvlblFrmt>	[0..*]	CodeSet		683
	NumberOfLines <NbOfLines>	[0..1]	Quantity		683
	LineWidth <LineWidth>	[0..1]	Quantity		683
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet	C6	684

19.1.7.5.8.1 Destination <Dstn>

Presence: [1..*]

Definition: Destination of the message to present.

Datatype: "UserInterface4Code" on page 922

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

19.1.7.5.8.2 AvailableFormat <AvlblFrmt>

Presence: [0..*]

Definition: Available message format.

Datatype: "OutputFormat1Code" on page 896

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.

19.1.7.5.8.3 NumberOfLines <NbOfLines>

Presence: [0..1]

Definition: Number of lines of the display.

Datatype: "Number" on page 926

19.1.7.5.8.4 LineWidth <LineWidth>

Presence: [0..1]

Definition: Number of columns of the display or printer.

Datatype: "Number" on page 926

19.1.7.5.8.5 AvailableLanguage <AvlblLang>

Presence: [0..*]

Definition: Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

19.1.7.6 PointOfInteractionComponent10

Definition: Data related to a component of the POI (Point Of Interaction) performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfoInformation <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrlId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696
	AccessCode <AccsCd>	[0..1]	Binary		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlvryDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

19.1.7.6.1 Type <Tp>

Presence: [1..1]

Definition: Type of component belonging to a POI (Point Of Interaction) Terminal.

Datatype: "POIComponentType6Code" on page 901

CodeName	Name	Definition
AQPP	AcquirerProtocolParameters	Parameters for acquirer interface of the point of interaction, including acquirer host configuration parameters.
APPR	ApplicationParameters	Parameters of a payment application running on the point of interaction.
TLPR	TerminalParameters	Manufacturer configuration parameters of the point of interaction.

CodeName	Name	Definition
SCPR	SecurityParameters	Security parameters of the point of interaction.
SERV	Server	Payment server of a point of interaction system.
TERM	Terminal	Payment terminal point of interaction.
DVCE	Device	Device sub-component of a component of the point of interaction.
SECM	SecureModule	Security module.
APLI	PaymentApplication	Payment application software.
EMVK	EMVKernel	EMV application kernel (EMV is the chip card specifications initially defined by Eurocard, Mastercard and Visa).
EMVO	EMVLevel1	EMV physical interface (EMV is the chip card specifications initially defined by Eurocard, Mastercard and Visa).
MDWR	Middleware	Software module of the point of interaction.
DRVR	Driver	Driver module of the point of interaction.
OPST	OperatingSystem	Software that manages hardware to provide common services to the applications.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
CRTF	CertificateParameters	Certificate provided by a terminal manager.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
SACP	SaleComponent	Component of the Sale system.
SAPR	SaleToPOIProtocolParameters	Parameters related to the Sale to POI protocol.
LOGF	LogFile	Any repository used for recording log traces.
MDFL	MediaFile	Media file managed by an application of the POI.
SOFT	Soft	Payment or other software application.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

19.1.7.6.2 SubTypeInformation <SubTpInf>

Presence: [0..1]

Definition: Additional information regarding the type of the component.

Datatype: "Max70Text" on page 930

19.1.7.6.3 Identification <Id>

Presence: [1..1]

Definition: Identification of the POI (Point Of Interaction) component.

Identification <Id> contains the following **PointOfInteractionComponentIdentification1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688

19.1.7.6.3.1 ItemNumber <ItmNb>

Presence: [0..1]

Definition: Hierarchical identification of a hardware component inside all the hardware component of the POI. It is composed of all item numbers of the upper level components, separated by the '.' character, ended by the item number of the current component.

Datatype: "Max35Text" on page 929

19.1.7.6.3.2 ProviderIdentification <PrvdrId>

Presence: [0..1]

Definition: Identifies the provider of the software, hardware or parameters of the POI component.

Datatype: "Max35Text" on page 929

19.1.7.6.3.3 Identification <Id>

Presence: [0..1]

Definition: Identification of the POI component assigned by its provider.

Datatype: "Max35Text" on page 929

19.1.7.6.3.4 SerialNumber <SrlNb>

Presence: [0..1]

Definition: Serial number identifying an occurrence of an hardware component.

Datatype: "Max35Text" on page 929

19.1.7.6.4 Status <Sts>

Presence: [0..1]

Definition: Status of the POI (Point Of Interaction) component.

Status <Sts> contains the following **PointOfInteractionComponentStatus3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689

19.1.7.6.4.1 VersionNumber <VrsnNb>

Presence: [0..1]

Definition: Current version of the component that might include the release number.

Datatype: "Max256Text" on page 928

19.1.7.6.4.2 Status <Sts>

Presence: [0..1]

Definition: Current status of the component.

Datatype: "POIComponentStatus1Code" on page 901

CodeName	Name	Definition
WAIT	WaitingActivation	Component not yet activated.
OUTD	OutOfOrder	Component not working properly.
OPER	InOperation	Component activated and in operation.
DACT	Deactivated	Component has been deactivated.

19.1.7.6.4.3 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiration date of the component.

Datatype: "ISODate" on page 923

19.1.7.6.5 StandardCompliance <StdCmplc>

Presence: [0..*]

Definition: Identification of the standard for which the component complies with.

StandardCompliance <StdCmplc> contains the following **GenericIdentification48** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690

19.1.7.6.5.1 Identification <Id>

Presence: [1..1]

Definition: Proprietary information, often a code, issued by the data source scheme issuer.

Datatype: "Max35Text" on page 929

19.1.7.6.5.2 Version <Vrsn>

Presence: [1..1]

Definition: Version of the identification.

Datatype: "Max35Text" on page 929

19.1.7.6.5.3 Issuer <Issr>

Presence: [1..1]

Definition: Entity that assigns the identification.

Datatype: "Max35Text" on page 929

19.1.7.6.6 Characteristics <Chrtcs>

Presence: [0..1]

Definition: Characteristics of a POI (Point Of Interaction) component.

Characteristics <Chrtcs> contains the following **PointOfInteractionComponentCharacteristics6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697

19.1.7.6.6.1 Memory <Mmry>

Presence: [0..*]

Definition: Memory characteristics of the component.

Memory <Mmry> contains the following **MemoryCharacteristics1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692

19.1.7.6.6.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification or name of the memory.

Datatype: "Max35Text" on page 929

19.1.7.6.6.1.2 TotalSize <TtlSz>

Presence: [1..1]

Definition: Total size of the memory unit.

Datatype: "DecimalNumber" on page 925

19.1.7.6.6.1.3 FreeSize <FreeSz>

Presence: [1..1]

Definition: Total size of the available memory.

Datatype: "DecimalNumber" on page 925

19.1.7.6.6.1.4 Unit <Unit>

Presence: [1..1]

Definition: Memory unit of the sizes.

Datatype: "MemoryUnit1Code" on page 894

CodeName	Name	Definition
BYTE	Byte	Byte.
EXAB	ExaByte	Exa byte.
GIGA	GigaByte	Giga byte.
KILO	KiloByte	Kilo byte.
MEGA	MegaByte	Mega byte.
PETA	PetaByte	Peta byte.
TERA	TeraByte	Tera byte.

19.1.7.6.6.2 Communication <Com>

Presence: [0..*]

Definition: Low level communication of the hardware or software component toward another component or an external entity.

Communication <Com> contains the following **CommunicationCharacteristics5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696

19.1.7.6.6.2.1 CommunicationType <ComTp>

Presence: [1..1]

Definition: Type of low level communication.

Datatype: "POICommunicationType2Code" on page 900

CodeName	Name	Definition
BLTH	Bluetooth	Communication with a host using Bluetooth.
ETHR	Ethernet	Ethernet port to communicate.
GPRS	GPRS	Communication with a host using GPRS.
GSMF	GSM	Communication with a host using GSM.
PSTN	PSTN	Communication with a host using Public Switching Telephone Network.
RS23	RS232	Serial port to communicate.
USBD	USBDevice	Communication with a USB stick or any USB device.
USBH	USBHost	Communication with a host from an USB port.
WIFI	Wifi	Wifi communication with another component.
WT2G	WirelessTechnology2G	Includes all communication technologies which can be qualified as being part of the 2G technology (e.g EDGE or PDC).
WT3G	WirelessTechnology3G	Includes all communication technologies which can be qualified as being part of the 3G technology.

CodeName	Name	Definition
WT4G	WirelessTechnology4G	Includes all communication technologies which can be qualified as being part of the 4G technology.
WT5G	WirelessTechnology5G	Includes all communication technologies which can be qualified as being part of the 5G technology.

19.1.7.6.6.2.2 RemoteParty <RmotPty>

Presence: [1..*]

Definition: Entity that communicate with the current component, using this communication device.

Datatype: "PartyType7Code" on page 898

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
PCPT	POIComponent	Party component of a POI system or POI terminal (Point of Interaction).
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.
SALE	SaleSystem	Party selling goods and services.

19.1.7.6.6.2.3 Active <Actv>

Presence: [1..1]

Definition: Communication hardware is activated.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.6.6.2.4 Parameters <Params>

Presence: [0..1]

Definition: Network parameters of the communication link.

Parameters <Params> contains the following elements (see "[NetworkParameters7](#)" on page 807 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Address <Adr>	[1..*]			808
	NetworkType <NtwkTp>	[1..1]	CodeSet		808
	AddressValue <AdrVal>	[1..1]	Text		808
	UserName <UsrNm>	[0..1]	Text		808
	AccessCode <AccsCd>	[0..1]	Binary		809
	ServerCertificate <SvrCert>	[0..*]	Binary		809
	ServerCertificateIdentifier <SvrCertIdr>	[0..*]	Binary		809
	ClientCertificate <CIntCert>	[0..*]	Binary		809
	SecurityProfile <SctyPrfl>	[0..1]	Text		809

19.1.7.6.6.2.5 PhysicalInterface <PhysIntrfc>

Presence: [0..1]

Definition: Physical Interface used by the communication link.

PhysicalInterface <PhysIntrfc> contains the following **PhysicalInterfaceParameter1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696

19.1.7.6.6.2.5.1 InterfaceName <IntrfcNm>

Presence: [1..1]

Definition: Identification of the interface.

Datatype: "[Max35Text](#)" on page 929

19.1.7.6.6.2.5.2 InterfaceType <IntrfcTp>

Presence: [0..1]

Definition: Identification of the physical link layer.

Datatype: "[POICommunicationType2Code](#)" on page 900

CodeName	Name	Definition
BLTH	Bluetooth	Communication with a host using Bluetooth.
ETHR	Ethernet	Ethernet port to communicate.
GPRS	GPRS	Communication with a host using GPRS.
GSMF	GSM	Communication with a host using GSM.
PSTN	PSTN	Communication with a host using Public Switching Telephone Network.
RS23	RS232	Serial port to communicate.
USBD	USBDevice	Communication with a USB stick or any USB device.
USBH	USBHost	Communication with a host from an USB port.
WIFI	Wifi	Wifi communication with another component.
WT2G	WirelessTechnology2G	Includes all communication technologies which can be qualified as being part of the 2G technology (e.g EDGE or PDC).
WT3G	WirelessTechnology3G	Includes all communication technologies which can be qualified as being part of the 3G technology.
WT4G	WirelessTechnology4G	Includes all communication technologies which can be qualified as being part of the 4G technology.
WT5G	WirelessTechnology5G	Includes all communication technologies which can be qualified as being part of the 5G technology.

19.1.7.6.6.2.5.3 UserName <UsrNm>

Presence: [0..1]

Definition: Optional user name to provide to use this interface.

Datatype: "Max35Text" on page 929

19.1.7.6.6.2.5.4 AccessCode <AccsCd>

Presence: [0..1]

Definition: Optional access code to provide to use this interface.

Datatype: "Max35Binary" on page 862

19.1.7.6.6.2.5.5 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the optional security profile to use with this interface.

Datatype: "Max35Text" on page 929

19.1.7.6.6.2.5.6 AdditionalParameters <AddtlParams>

Presence: [0..1]

Definition: Any other parameters relevant for this interface.

Datatype: "Max2KBinary" on page 861

19.1.7.6.6.3 SecurityAccessModules <SctyAccsMdl>

Presence: [0..1]

Definition: Number of security access modules (SAM).

Datatype: "Number" on page 926

19.1.7.6.6.4 SubscriberIdentityModules <SbcbrldntyMdl>

Presence: [0..1]

Definition: Number of subscriber identity modules (SIM).

Datatype: "Number" on page 926

19.1.7.6.6.5 SecurityElement <SctyElmt>

Presence: [0..*]

Definition: Security characteristics of the component.

SecurityElement <SctyElmt> contains the following elements (see "CryptographicKey14" on page 812 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		813
	AdditionalIdentification <AddtlId>	[0..1]	Binary		813
	Name <Nm>	[0..1]	Text		813
	SecurityProfile <SctyPrfl>	[0..1]	Text		814
	ItemNumber <ItmNb>	[0..1]	Text		814
	Version <Vrsn>	[1..1]	Text		814
	Type <Tp>	[0..1]	CodeSet		814
	Function <Fctn>	[0..*]	CodeSet		815
	ActivationDate <ActvtnDt>	[0..1]	DateTime		815
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		815
	KeyValue <KeyVal>	[0..1]	±		816
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		816
	AdditionalManagementInformation <AddtlMgmtInf>	[0..*]			816
	Name <Nm>	[1..1]	Text		816
	Value <Val>	[0..1]	Text		816

19.1.7.6.7 Assessment <Assmnt>

Presence: [0..*]

Definition: Assessments for the component of the point of interaction.

Assessment <Assmnt> contains the following **PointOfInteractionComponentAssessment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlvryDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698

19.1.7.6.7.1 Type <Tp>

Presence: [1..1]

Definition: Type of assessment of the component.

Datatype: "POIComponentAssessment1Code" on page 900

CodeName	Name	Definition
APPL	Approval	Approval number delivered by an approval centre.
CERT	Certification	Certification number delivered by a certification body.
EVAL	Evaluation	Evaluation by a lab or a tool.

19.1.7.6.7.2 Assigner <Assgnr>

Presence: [1..*]

Definition: Body which has delivered the assessment.

Datatype: "Max35Text" on page 929

19.1.7.6.7.3 DeliveryDate <DlvryDt>

Presence: [0..1]

Definition: Date when the assessment has been delivered.

Datatype: "ISODateTime" on page 923

19.1.7.6.7.4 ExpirationDate <XprtnDt>

Presence: [0..1]

Definition: Date when the assessment will expire.

Datatype: "ISODateTime" on page 923

19.1.7.6.7.5 Number <Nb>

Presence: [1..1]

Definition: Unique assessment number for the component.

Datatype: "Max35Text" on page 929

19.1.7.6.8 Package <Packg>

Presence: [0..*]

Definition: Chunk of a software package.

Package <Packg> contains the following **PackageType1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Packageldentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

19.1.7.6.8.1 Packageldentification <PackgId>

Presence: [0..1]

Definition: Identification of the software packages of which the chunk belongs.

Packageldentification <PackgId> contains the following elements (see "[GenericIdentification176](#)" on page 641 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		641
	Type <Tp>	[0..1]	CodeSet		641
	Issuer <Issr>	[0..1]	CodeSet		642
	Country <Ctry>	[0..1]	Text		642
	ShortName <ShrtNm>	[0..1]	Text		642

19.1.7.6.8.2 PackageLength <PackgLngh>

Presence: [0..1]

Definition: Full length of software package identified through Packageldentification.

Datatype: "[PositiveNumber](#)" on page 926

19.1.7.6.8.3 OffsetStart <OffsetStart>

Presence: [0..1]

Definition: Place of the first following PackageBlock, beginning with 0, in the full software package identified through Packageldentification.

Datatype: "PositiveNumber" on page 926

19.1.7.6.8.4 OffsetEnd <OffsetEnd>

Presence: [0..1]

Definition: Following place of the last following PackageBlock in the full software package identified through PackageIdentification.

Datatype: "PositiveNumber" on page 926

19.1.7.6.8.5 PackageBlock <PackgBlck>

Presence: [0..*]

Definition: Consecutive slices of the full software package identified through PackageIdentification starting with first slice at the place identified with OffsetStart and ending with the last slice at the previous place identified with OffsetEnd.

PackageBlock <PackgBlck> contains the following **ExternallyDefinedData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

19.1.7.6.8.5.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 927

19.1.7.6.8.5.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 861

19.1.7.6.8.5.3 ProtectedValue <PrctcdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrctcdVal> contains the following elements (see "[ContentInformationType23](#)" on page 817 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

19.1.7.6.8.5.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

Datatype: "[Max1025Text](#)" on page 927

19.1.7.7 LoyaltyAccount2

Definition: Loyalty Account description.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <Lltyld>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <ldTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

19.1.7.7.1 LoyaltyIdentification <Lltyld>

Presence: [0..1]

Definition: Identification of Loyalty Account.

Datatype: "[Max35Text](#)" on page 929

19.1.7.7.2 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Loyalty account or card.

Datatype: "[CardDataReading8Code](#)" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.7.3 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Loyalty Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

19.1.7.7.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

19.1.7.7.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Loyalty Account.

Datatype: "Max35Text" on page 929

19.1.7.7.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

19.1.7.7.7 Unit <Unit>

Presence: [0..1]

Definition: Unit of a Loyalty Account (Point or Currency).

Datatype: "AmountUnit1Code" on page 871

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

19.1.7.7.8 Currency <Ccy>

Presence: [0..1]

Definition: Currency of a Loyalty Account if any.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.7.9 Balance <Bal>

Presence: [0..1]

Definition: Balance of a Loyalty Account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.8 PaymentReceipt2

Definition: Customer or Merchant receipts generated by the POI system.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DocumentQualifier <DocQlfr>	[1..1]	CodeSet		704
	IntegratedPrintFlag <IntgrtdPrtFlg>	[0..1]	Indicator		704
	RequiredSignatureFlag <ReqrdsGntrFlg>	[0..1]	Indicator		704
	OutputContent <OutptCntt>	[1..1]	±		705

19.1.7.8.1 DocumentQualifier <DocQlfr>

Presence: [1..1]

Definition: Qualification of the document to print to the Cashier or the Customer.

Datatype: "DocumentType7Code" on page 887

CodeName	Name	Definition
JNRL	Journal	When the POI or the Sale System wants to store a message on the journal printer or electronic journal of the Sale Terminal (it is sometimes a Sale Logging/Journal Printer).
CRCP	CustomerReceipt	When the Sale System requires the POI system to print the Customer receipt.
HRCP	CashierReceipt	When the Sale system print the Cashier copy of the Payment receipt.
SRCP	SaleReceipt	When the Sale System requires the POI system to print the Sale receipt.
RPIN	RelatedPaymentInstruction	Document is a linked payment instruction to which the current payment instruction is related, for example, in a cover scenario.
VCHR	Voucher	Document is an electronic payment document.

19.1.7.8.2 IntegratedPrintFlag <IntgrtdPrtFlg>

Presence: [0..1]

Definition: Flag is the print is integrated to other prints.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.8.3 RequiredSignatureFlag <ReqrdsGntrFlg>

Presence: [0..1]

Definition: Flag to indicate that the cardholder payment receipt requires a signature by the customer.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.8.4 OutputContent <OutptCntt>

Presence: [1..1]

Definition: Document to print.

OutputContent <OutptCntt> contains the following elements (see "[ActionMessage7](#)" on page 781 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstrn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.7.9 AggregationTransaction3

Definition: Payment transaction with an aggregated amount.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	FirstPaymentDateTime <FrstPmtDtTm>	[0..1]	DateTime		706
	LastPaymentDateTime <LastPmtDtTm>	[0..1]	DateTime		706
	NumberOfPayments <NbOfPmts>	[0..1]	Quantity		706
	IndividualPayment <IndvPmt>	[0..*]			706
	Amount <Amt>	[1..1]	Amount		707
	DateTime <DtTm>	[1..1]	DateTime		707
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		707
	ICCRelatedData <ICCRItdData>	[0..1]	Binary		707
	Label <Labl>	[0..1]	Text		708

19.1.7.9.1 FirstPaymentDateTime <FrstPmtDtTm>

Presence: [0..1]

Definition: Date and time of the first payment.

Datatype: "ISODatetime" on page 923

19.1.7.9.2 LastPaymentDateTime <LastPmtDtTm>

Presence: [0..1]

Definition: Date and time of the last payment.

Datatype: "ISODatetime" on page 923

19.1.7.9.3 NumberOfPayments <NbOfPmts>

Presence: [0..1]

Definition: Total number of payments that has been aggregated.

Datatype: "Number" on page 926

19.1.7.9.4 IndividualPayment <IndvPmt>

Presence: [0..*]

Definition: Individual payment that has been aggregated.

IndividualPayment <IndvPmt> contains the following **DetailedAmount21** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		707
	DateTime <DtTm>	[1..1]	DateTime		707
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		707
	ICCRelatedData <ICCRItdData>	[0..1]	Binary		707
	Label <Labl>	[0..1]	Text		708

19.1.7.9.4.1 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.9.4.2 DateTime <DtTm>

Presence: [1..1]

Definition: Date and time of the payment.

Datatype: "ISODateTime" on page 923

19.1.7.9.4.3 CardDataEntryMode <CardDataNtryMd>

Presence: [0..1]

Definition: Card data entry mode for the related payment.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.9.4.4 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Data of an integrated circuit card application for the related payment.

Datatype: "Max10000Binary" on page 860

19.1.7.9.4.5 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to display or print.

Datatype: "Max140Text" on page 927

19.1.7.10 CardPaymentEnvironment75

Definition: Environment of the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[0..1]	±		714
	Merchant <Mrchnt>	[0..1]			714
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716
	POI <POI>	[0..1]			716
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <GrpId>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719
	Card <Card>	[0..1]			721
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724
	ServiceOption <SvcOptn>	[0..1]	Text		725

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725
	Check <Chck>	[0..1]			725
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727
	StoredValueAccount <StordValAcct>	[0..*]			727
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731
	LoyaltyAccount <LtyAcct>	[0..*]	±		731
	CustomerDevice <CstmrDvc>	[0..1]	±		731
	Wallet <Wlt>	[0..1]	±		731
	PaymentToken <PmtTkn>	[0..1]	±		732
	Cardholder <Crdhldr>	[0..1]			732
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <ScIScTyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746
	CardholderOnLinePIN <CrhdldrOnLinePIN>	[0..1]			746

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <Crdhldrld>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <Drvrld>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIScTyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrldNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeeldNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759
	ProtectedCardholderData <PrctcdCrdhldrData>	[0..1]	±		759
	SaleEnvironment <SaleEnv>	[0..1]			760
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LltyHdlg>	[0..1]	CodeSet		762

19.1.7.10.1 Acquirer <Acqrr>

Presence: [0..1]

Definition: Acquirer involved in the card payment.

Acquirer <Acqrr> contains the following elements (see "Acquirer10" on page 590 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		590
	ParametersVersion <ParamsVrsn>	[0..1]	Text		590

19.1.7.10.2 Merchant <Mrchnt>

Presence: [0..1]

Definition: Merchant performing the card payment transaction.

Usage: In some cases, merchant and acceptor may be regarded as the same entity.

Merchant <Mrchnt> contains the following **Organisation32** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		714
	CommonName <CmonNm>	[0..1]	Text		715
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		715
	LocationAndContact <LctnAndCtct>	[0..1]	±		715
	SchemeData <SchmeData>	[0..1]	Text		716

19.1.7.10.2.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the merchant.

Identification <Id> contains the following elements (see "[GenericIdentification32](#)" on page 635 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		635
	Type <Tp>	[0..1]	CodeSet		636
	Issuer <Issr>	[0..1]	CodeSet		636
	ShortName <ShrtNm>	[0..1]	Text		636

19.1.7.10.2.2 CommonName <CmonNm>

Presence: [0..1]

Definition: Name of the merchant as appearing on the receipt.

Datatype: "[Max70Text](#)" on page 930

19.1.7.10.2.3 LocationCategory <LctnCtgy>

Presence: [0..1]

Definition: Location category of the place where the merchant actually performed the transaction.

Datatype: "[LocationCategory1Code](#)" on page 892

CodeName	Name	Definition
FIXD	Fixed	Fixed location, for example in a shop.
ABRD	Aboard	Aboard a bus, train, ship, airplane, taxi, etc.
NMDC	Nomadic	Nomadic location.
MOTO	MailOrderTelephoneOrder	Mail order or telephone order.
HOME	Home	Customer home.

19.1.7.10.2.4 LocationAndContact <LctnAndCtct>

Presence: [0..1]

Definition: Location and contact information of the merchant performing the transaction.

LocationAndContact <LctnAndCtct> contains the following elements (see "[CommunicationAddress9](#)" on page 591 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PostalAddress <PstlAdr>	[0..1]	±		591
	Email <Email>	[0..1]	Text		591
	URLAddress <URLAdr>	[0..1]	Text		592
	Phone <Phne>	[0..1]	Text		592
	CustomerService <CstmrSvc>	[0..1]	Text		592
	AdditionalContactInformation <AddtlCtctInf>	[0..1]	Text		592

19.1.7.10.2.5 SchemeData <SchmeData>

Presence: [0..1]

Definition: Additional merchant data required by a card scheme.

Datatype: "Max140Text" on page 927

19.1.7.10.3 POI <POI>

Presence: [0..1]

Definition: Point of interaction (POI) performing the transaction.

POI <POI> contains the following **PointOfInteraction10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		716
	SystemName <SysNm>	[0..1]	Text		717
	GroupIdentification <Grpld>	[0..1]	Text		717
	Capabilities <Cpblties>	[0..1]	±		717
	TimeZone <TmZone>	[0..1]	Text		718
	TerminalIntegration <TermnlIntgtn>	[0..1]	CodeSet		718
	Component <Cmpnt>	[0..*]	±		719

19.1.7.10.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the POI (Point Of Interaction) for the acquirer or its agent.

Identification <Id> contains the following elements (see "[GenericIdentification177](#)" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

19.1.7.10.3.2 SystemName <SysNm>

Presence: [0..1]

Definition: Common name assigned by the acquirer to the POI (Point Of Interaction) system.

Datatype: "[Max70Text](#)" on page 930

19.1.7.10.3.3 GroupIdentification <GrpId>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI (Point Of Interaction) terminals performing some categories of transactions.

Datatype: "[Max35Text](#)" on page 929

19.1.7.10.3.4 Capabilities <Cpblties>

Presence: [0..1]

Definition: Capabilities of the POI (Point Of Interaction) performing the transaction.

Capabilities <Cpblties> contains the following elements (see "PointOfInteractionCapabilities9" on page 680 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[0..*]	CodeSet		680
	CardholderVerificationCapabilities <CrdhldrVrfctnCpblties>	[0..*]	CodeSet		681
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		682
	ApprovalCodeLength <ApprvlCdLngh>	[0..1]	Quantity		682
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		682
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		682
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		682
	MessageCapabilities <MsgCpblties>	[0..*]			682
	Destination <Dstn>	[1..*]	CodeSet		683
	AvailableFormat <AvlblFrmt>	[0..*]	CodeSet		683
	NumberOfLines <NbOfLines>	[0..1]	Quantity		683
	LineWidth <LineWidth>	[0..1]	Quantity		683
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet	C6	684

19.1.7.10.3.5 TimeZone <TmZone>

Presence: [0..1]

Definition: Time zone name as defined by IANA (Internet Assigned Numbers Authority) in the time zone data base. America/Chicago or Europe/Paris are examples of time zone names.

Datatype: "Max70Text" on page 930

19.1.7.10.3.6 TerminalIntegration <TermnlIntgtn>

Presence: [0..1]

Definition: Indicates the type of integration of the POI terminal in the sale environment.

Datatype: "LocationCategory3Code" on page 892

CodeName	Name	Definition
INDR	Indoor	Indoor terminal.
IPMP	InsidePump	Terminal incorporated in the pump dispensing petrol.
MPOI	MultiplePOITerminal	Multiple terminals linked to a unique sale terminal.
MPMP	MultiplePump	Outdoor terminal serving several petrol pumps.
MSLE	MultipleSaleTerminal	Terminal serving multiple sale terminals.
SSLE	SingleSaleTerminal	Terminal linked to a unique sale terminal.

CodeName	Name	Definition
VNDG	VendingMachine	Terminal integrated in a vending machine.

19.1.7.10.3.7 Component <Cmpnt>

Presence: [0..*]

Definition: Data related to a component of the POI (Point Of Interaction) performing the transaction.

Component <Cmpnt> contains the following elements (see "PointOfInteractionComponent10" on page 684 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		686
	SubTypeInfo <SubTpInf>	[0..1]	Text		687
	Identification <Id>	[1..1]			688
	ItemNumber <ItmNb>	[0..1]	Text		688
	ProviderIdentification <PrvdrId>	[0..1]	Text		688
	Identification <Id>	[0..1]	Text		688
	SerialNumber <SrlNb>	[0..1]	Text		688
	Status <Sts>	[0..1]			688
	VersionNumber <VrsnNb>	[0..1]	Text		689
	Status <Sts>	[0..1]	CodeSet		689
	ExpiryDate <XpryDt>	[0..1]	Date		689
	StandardCompliance <StdCmplc>	[0..*]			689
	Identification <Id>	[1..1]	Text		689
	Version <Vrsn>	[1..1]	Text		690
	Issuer <Issr>	[1..1]	Text		690
	Characteristics <Chrtcs>	[0..1]			690
	Memory <Mmry>	[0..*]			691
	Identification <Id>	[1..1]	Text		692
	TotalSize <TtlSz>	[1..1]	Quantity		692
	FreeSize <FreeSz>	[1..1]	Quantity		692
	Unit <Unit>	[1..1]	CodeSet		692
	Communication <Com>	[0..*]			692
	CommunicationType <ComTp>	[1..1]	CodeSet		693
	RemoteParty <RmotPty>	[1..*]	CodeSet		694
	Active <Actv>	[1..1]	Indicator		694
	Parameters <Params>	[0..1]	±		694
	PhysicalInterface <PhysIntrfc>	[0..1]			695
	InterfaceName <IntrfcNm>	[1..1]	Text		695
	InterfaceType <IntrfcTp>	[0..1]	CodeSet		695
	UserName <UsrNm>	[0..1]	Text		696

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccessCode <AccsCd>	[0..1]	Binary		696
	SecurityProfile <SctyPrfl>	[0..1]	Text		696
	AdditionalParameters <AddtlParams>	[0..1]	Binary		696
	SecurityAccessModules <SctyAccsMdl>	[0..1]	Quantity		697
	SubscriberIdentityModules <SbcbrldntyMdl>	[0..1]	Quantity		697
	SecurityElement <SctyElmt>	[0..*]	±		697
	Assessment <Assmnt>	[0..*]			697
	Type <Tp>	[1..1]	CodeSet		698
	Assigner <Assgnr>	[1..*]	Text		698
	DeliveryDate <DlrvyDt>	[0..1]	DateTime		698
	ExpirationDate <XprtnDt>	[0..1]	DateTime		698
	Number <Nb>	[1..1]	Text		698
	Package <Packg>	[0..*]			699
	PackageIdentification <PackgId>	[0..1]	±		699
	PackageLength <PackgLngh>	[0..1]	Quantity		699
	OffsetStart <OffsetStart>	[0..1]	Quantity		699
	OffsetEnd <OffsetEnd>	[0..1]	Quantity		700
	PackageBlock <PackgBlck>	[0..*]			700
	Identification <Id>	[1..1]	Text		700
	Value <Val>	[0..1]	Binary		700
	ProtectedValue <PrctcdVal>	[0..1]	±		700
	Type <Tp>	[0..1]	Text		701

19.1.7.10.4 Card <Card>

Presence: [0..1]

Definition: Payment card performing the transaction.

Card <Card> contains the following **PaymentCard30** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		722
	PrivateCardData <PrvtCardData>	[0..1]	Binary		722
	PlainCardData <PlainCardData>	[0..1]	±		722
	PaymentAccountReference <PmtAcctRef>	[0..1]	Text		723
	MaskedPAN <MskdPAN>	[0..1]	Text		723
	IssuerBIN <IssrBIN>	[0..1]	Text		723
	CardCountryCode <CardCtryCd>	[0..1]	Text		723
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		723
	CardProductProfile <CardPdctPrfl>	[0..1]	Text		724
	CardBrand <CardBrnd>	[0..1]	Text		724
	CardProductType <CardPdctTp>	[0..1]	CodeSet		724
	CardProductSubType <CardPdctSubTp>	[0..1]	Text		724
	InternationalCard <IntrnlCard>	[0..1]	Indicator		724
	AllowedProduct <AllwdPdct>	[0..*]	Text		724
	ServiceOption <SvcOptn>	[0..1]	Text		725
	AdditionalCardData <AddtlCardData>	[0..1]	Text		725

19.1.7.10.4.1 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 "ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.10.4.2 PrivateCardData <PrvtCardData>

Presence: [0..1]

Definition: Replacement of the message element PlainCardData by a private envelope.

Datatype: "Max100KBinary" on page 861

19.1.7.10.4.3 PlainCardData <PlainCardData>

Presence: [0..1]

Definition: Sensitive data associated with the card performing the transaction.

PlainCardData <PlainCardData> contains the following elements (see "PlainCardData15" on page 595 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		596
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		596
	EffectiveDate <FctvDt>	[0..1]	Text		596
	ExpiryDate <XpryDt>	[1..1]	Text		596
	ServiceCode <SvcCd>	[0..1]	Text		596
	Track1 <Trck1>	[0..1]	Text		597
	Track2 <Trck2>	[0..1]	Text		597
	Track3 <Trck3>	[0..1]	Text		597
	CardholderName <CrdhldrNm>	[0..1]	Text		597

19.1.7.10.4.4 PaymentAccountReference <PmtAcctRef>

Presence: [0..1]

Definition: Unique reference to the card, used by both merchants and acquirers to link tokenized and non-tokenized transactions associated to the same underlying card.

Datatype: "Max70Text" on page 930

19.1.7.10.4.5 MaskedPAN <MskdPAN>

Presence: [0..1]

Definition: Masked PAN to be printed on payment receipts or displayed to the cardholder. Masked digits may be absent or replaced by another character as '*'.

Datatype: "Max30Text" on page 928

19.1.7.10.4.6 IssuerBIN <IssrBIN>

Presence: [0..1]

Definition: Bank identifier number of the issuer for routing purpose.

Datatype: "Max15NumericText" on page 928

19.1.7.10.4.7 CardCountryCode <CardCtryCd>

Presence: [0..1]

Definition: Country code assigned to the card by the card issuer.

Datatype: "Max3Text" on page 929

19.1.7.10.4.8 CardCurrencyCode <CardCcyCd>

Presence: [0..1]

Definition: Currency code of the card issuer (ISO 4217 numeric code).

Datatype: "Exact3AlphaNumericText" on page 926

19.1.7.10.4.9 CardProductProfile <CardPdctPrfl>

Presence: [0..1]

Definition: Defines a category of cards related to the acceptance processing rules defined by the acquirer.

Datatype: "Max35Text" on page 929

19.1.7.10.4.10 CardBrand <CardBrnd>

Presence: [0..1]

Definition: Brand name of the card.

Datatype: "Max35Text" on page 929

19.1.7.10.4.11 CardProductType <CardPdctTp>

Presence: [0..1]

Definition: Type of card product.

Datatype: "CardProductType1Code" on page 882

CodeName	Name	Definition
COMM	CommercialCard	Cards issued as a means of business expenditure, for instance business card or corporate card. The user could be a company, an individual for business expenses or a self employed for business purposes.
CONS	ConsumerCard	Cards issued as a means of personal expenditure. The user is always an individual.

19.1.7.10.4.12 CardProductSubType <CardPdctSubTp>

Presence: [0..1]

Definition: Additionnal information to identify CardProduct.

Datatype: "Max35Text" on page 929

19.1.7.10.4.13 InternationalCard <IntrnlCard>

Presence: [0..1]

Definition: True if the card may be used abroad.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.10.4.14 AllowedProduct <AllwdPdct>

Presence: [0..*]

Definition: Product that can be purchased with the card.

Datatype: "Max70Text" on page 930

19.1.7.10.4.15 ServiceOption <SvcOptn>

Presence: [0..1]

Definition: Options to the service provided by the card.

Datatype: "Max35Text" on page 929

19.1.7.10.4.16 AdditionalCardData <AddtlCardData>

Presence: [0..1]

Definition: Additional card issuer specific data.

Datatype: "Max70Text" on page 930

19.1.7.10.5 Check <Chck>

Presence: [0..1]

Definition: Check Payment instrument.

Check <Chck> contains the following **Check1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BankIdentification <Bkld>	[0..1]	Text		725
	AccountNumber <AcctNb>	[0..1]	Text		725
	CheckNumber <ChckNb>	[0..1]	Text		725
	CheckCardNumber <ChckCardNb>	[0..1]	Text		726
	CheckTrackData2 <ChckTrckData2>	[0..1]			726
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727
	CheckType <ChckTp>	[0..1]	CodeSet		727
	Country <Ctry>	[0..1]	Text		727

19.1.7.10.5.1 BankIdentification <Bkld>

Presence: [0..1]

Definition: Identification of the institution (bank) issuing the check.

Datatype: "Max35Text" on page 929

19.1.7.10.5.2 AccountNumber <AcctNb>

Presence: [0..1]

Definition: Identification of the account linked to the check.

Datatype: "Max35Text" on page 929

19.1.7.10.5.3 CheckNumber <ChckNb>

Presence: [0..1]

Definition: Identification of the check.

Datatype: "Max35Text" on page 929

19.1.7.10.5.4 CheckCardNumber <ChckCardNb>

Presence: [0..1]

Definition: Check guarantee card number.

The human readable number from the Check Guarantee Card that is presented during the check tendering process.

Datatype: "Max35Text" on page 929

19.1.7.10.5.5 CheckTrackData2 <ChckTrckData2>

Presence: [0..1]

Definition: Track Data of the check to digitally identify the data.

CheckTrackData2 <ChckTrckData2> contains the following **TrackData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TrackNumber <TrckNb>	[0..1]	Quantity		726
	TrackFormat <TrckFrmt>	[0..1]	CodeSet		726
	TrackValue <TrckVal>	[1..1]	Text		727

19.1.7.10.5.5.1 TrackNumber <TrckNb>

Presence: [0..1]

Definition: Track number of the card.

Datatype: "Number" on page 926

19.1.7.10.5.5.2 TrackFormat <TrckFrmt>

Presence: [0..1]

Definition: Card or check track format.

Datatype: "TrackFormat1Code" on page 919

CodeName	Name	Definition
AAMV	AAMVFormat	American driver license.
CMC7	CMC7CheckFormat	Magnetic Ink Character Recognition, using the CMC-7 font - ISO 1004 Line at the bottom of a check containing the bank account and the check number.
E13B	E13BCheckFormat	Magnetic Ink Character Recognition, using the E-13B font) Line at the bottom of a check containing the bank account and the check number.
ISOF	ISOFormat	ISO card track format - ISO 7813 - ISO 4909.
JIS1	JISIFormat	Japanese track format I.

CodeName	Name	Definition
JIS2	JISIIFormat	Japanese track format II.

19.1.7.10.5.5.3 TrackValue <TrckVal>

Presence: [1..1]

Definition: Card track content or equivalent.

Datatype: "Max140Text" on page 927

19.1.7.10.5.6 CheckType <ChckTp>

Presence: [0..1]

Definition: Type of the check (personal or professional).

Datatype: "CheckType1Code" on page 883

CodeName	Name	Definition
BANK	BankCheck	The check is guaranteed by a bank.
BUSI	BusinessCheck	The check belongs to a Company or a professional entity.
GOVC	GovernmentCheck	Check issued by Government.
PAYR	PayrollCheck	Check issued by a company for the employees.
PERS	PersonalCheck	The check belongs to an individual.

19.1.7.10.5.7 Country <Ctry>

Presence: [0..1]

Definition: Country of the check.

Datatype: "Max3Text" on page 929

19.1.7.10.6 StoredValueAccount <StordValAcct>

Presence: [0..*]

Definition: Store value account payment instrument.

StoredValueAccount <StordValAcct> contains the following **StoredValueAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountType <AcctTp>	[0..1]	CodeSet		728
	IdentificationType <IdTp>	[0..1]	CodeSet		729
	Identification <Id>	[0..1]	Text		729
	Brand <Brnd>	[0..1]	Text		729
	Provider <Prvdr>	[0..1]	Text		729
	OwnerName <OwnrNm>	[0..1]	Text		729
	ExpiryDate <XpryDt>	[0..1]	Text		730
	EntryMode <NtryMd>	[0..1]	CodeSet		730
	Currency <Ccy>	[0..1]	CodeSet	C1	730
	Balance <Bal>	[0..1]	Amount		731

19.1.7.10.6.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 915

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).

CodeName	Name	Definition
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

19.1.7.10.6.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 879

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

19.1.7.10.6.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 929

19.1.7.10.6.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 929

19.1.7.10.6.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 929

19.1.7.10.6.6 OwnerName <OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 930

19.1.7.10.6.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 927

19.1.7.10.6.8 EntryMode <NtryMd>

Presence: [0..1]

Definition: Standard or last entry mode to access the Stored Value account or card.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.10.6.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.10.6.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.10.7 LoyaltyAccount <LtyAcct>

Presence: [0..*]

Definition: Store value account associated to the payment.

LoyaltyAccount <LtyAcct> contains the following elements (see "LoyaltyAccount2" on page 701 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	LoyaltyIdentification <LtyId>	[0..1]	Text		701
	EntryMode <NtryMd>	[0..1]	CodeSet		701
	IdentificationType <IdTp>	[0..1]	CodeSet		702
	Brand <Brnd>	[0..1]	Text		702
	Provider <Prvdr>	[0..1]	Text		703
	OwnerName <OwnrNm>	[0..1]	Text		703
	Unit <Unit>	[0..1]	CodeSet		703
	Currency <Ccy>	[0..1]	CodeSet	C1	703
	Balance <Bal>	[0..1]	Amount		703

19.1.7.10.8 CustomerDevice <CstmrDvc>

Presence: [0..1]

Definition: Device used by the customer to perform the payment transaction.

CustomerDevice <CstmrDvc> contains the following elements (see "CustomerDevice1" on page 800 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		800
	Type <Tp>	[0..1]	Text		800
	Provider <Prvdr>	[0..1]	Text		800

19.1.7.10.9 Wallet <Wlt>

Presence: [0..1]

Definition: Container for tenders used by the customer to perform the payment transaction.

Wallet <Wlt> contains the following elements (see "[CustomerDevice1](#)" on page 800 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		800
	Type <Tp>	[0..1]	Text		800
	Provider <Prvdr>	[0..1]	Text		800

19.1.7.10.10 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "[CardPaymentToken5](#)" on page 857 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		858
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		858
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		858
	TokenCharacteristic <TknChrtc>	[0..*]	Text		858
	TokenRequestor <TknRqstr>	[0..1]			858
	ProviderIdentification <PrvdrlId>	[1..1]	Text		859
	RequestorIdentification <RqstrId>	[1..1]	Text		859
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		859
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		859
	TokenAssuranceMethod <TknAssrncMtd>	[0..1]	Text		859
	TokenInitiatedIndicator <TknInittIdInd>	[0..1]	Indicator		859

19.1.7.10.11 Cardholder <Crhdldr>

Presence: [0..1]

Definition: Cardholder involved in the card payment.

Cardholder <Crhdldr> contains the following **Cardholder16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]			736
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <ScIscTyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739
	Name <Nm>	[0..1]	Text		739
	Language <Lang>	[0..1]	CodeSet	C6	739
	BillingAddress <BllgAdr>	[0..1]	±		740
	ShippingAddress <ShppgAdr>	[0..1]	±		740
	TripNumber <TripNb>	[0..1]	Text		741
	Vehicle <Vhcl>	[0..1]	±		741
	Authentication <Authntcn>	[0..*]			742
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746
	CardholderOnLinePIN <CrhdldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBick>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrhdldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIScItyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			753
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <Rslt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRslt>	[0..1]	Text		755
	PersonalData <PrsnlData>	[0..1]	Text		756
	MobileData <MobData>	[0..*]			756
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758
	SensitiveMobileData <SnstvMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrctcdMobData>	[0..1]	±		759

19.1.7.10.11.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the cardholder involved in a transaction.

Identification <Id> contains the following **PersonIdentification15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		736
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		736
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		737
	DriverIdentification <DrvrId>	[0..1]	Text		737
	CustomerNumber <CstmrNb>	[0..1]	Text		737
	SocialSecurityNumber <ScIscItyNb>	[0..1]	Text		737
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		737
	PassportNumber <PsptNb>	[0..1]	Text		737
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		737
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		737
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		738
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		738
	JobNumber <JobNb>	[0..1]	Text		738
	Department <Dept>	[0..1]	Text		738
	EmailAddress <EmailAdr>	[0..1]	Text		738
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			738
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739
	Other <Othr>	[0..*]	±		739

19.1.7.10.11.1.1 DriverLicenseNumber <DrvrLicNb>

Presence: [0..1]

Definition: Number assigned by a license authority to a driver's license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.2 DriverLicenseLocation <DrvrLicLctn>

Presence: [0..1]

Definition: Country, state or province, issuer of the driver license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.3 DriverLicenseName <DrvrLicNm>

Presence: [0..1]

Definition: Name or title of the driver license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.4 DriverIdentification <DrvrId>

Presence: [0..1]

Definition: Identification of the driver in the fleet of vehicle.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.5 CustomerNumber <CstmrNb>

Presence: [0..1]

Definition: Number assigned by an agent to identify its customer.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.6 SocialSecurityNumber <SciSctyNb>

Presence: [0..1]

Definition: Number assigned by a social security agency.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.7 AlienRegistrationNumber <AlnRegnNb>

Presence: [0..1]

Definition: Number assigned by a government agency to identify foreign nationals.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.8 PassportNumber <PsptNb>

Presence: [0..1]

Definition: Number assigned by a passport authority to a passport.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.9 TaxIdentificationNumber <TaxIdNb>

Presence: [0..1]

Definition: Number assigned by a tax authority to an entity.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.10 IdentityCardNumber <IdntyCardNb>

Presence: [0..1]

Definition: Number assigned by a national authority to an identity card.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.11 EmployerIdentificationNumber <MplyrIdNb>

Presence: [0..1]

Definition: Number assigned to an employer by a registration authority.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.12 EmployeeIdentificationNumber <MplyeIdNb>

Presence: [0..1]

Definition: Number assigned to an employee by a employer.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.13 JobNumber <JobNb>

Presence: [0..1]

Definition: Identification of the job.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.14 Department <Dept>

Presence: [0..1]

Definition: Identification of the department.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.15 EmailAddress <EmailAdr>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 928

19.1.7.10.11.1.16 DateAndPlaceOfBirth <DtAndPlcOfBirth>

Presence: [0..1]

Definition: Date and place of birth of a person.

DateAndPlaceOfBirth <DtAndPlcOfBirth> contains the following **DateAndPlaceOfBirth1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		738
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		739
	CityOfBirth <CityOfBirth>	[1..1]	Text		739
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	739

19.1.7.10.11.1.16.1 BirthDate <BirthDt>

Presence: [1..1]

Definition: Date on which a person is born.

Datatype: "ISODate" on page 923

19.1.7.10.11.1.16.2 ProvinceOfBirth <PrvcOfBirth>

Presence: [0..1]

Definition: Province where a person was born.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.16.3 CityOfBirth <CityOfBirth>

Presence: [1..1]

Definition: City where a person was born.

Datatype: "Max35Text" on page 929

19.1.7.10.11.1.16.4 CountryOfBirth <CtryOfBirth>

Presence: [1..1]

Definition: Country where a person was born.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 883

Constraints

- **Country**

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

19.1.7.10.11.1.17 Other <Othr>

Presence: [0..*]

Definition: Unique identification of a person, as assigned by an institution, using an identification scheme.

Other <Othr> contains the following elements (see "GenericIdentification4" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		645
	IdentificationType <IdTp>	[1..1]	Text		645

19.1.7.10.11.2 Name <Nm>

Presence: [0..1]

Definition: Cardholder name associated with the card.

Datatype: "Max45Text" on page 930

19.1.7.10.11.3 Language <Lang>

Presence: [0..1]

Definition: Language selected for the cardholder interface during the transaction.

Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

19.1.7.10.11.4 BillingAddress <BllgAdr>

Presence: [0..1]

Definition: Postal address of the owner of the payment card.

BillingAddress <BllgAdr> contains the following elements (see "PostalAddress22" on page 809 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		810
	Department <Dept>	[0..1]	Text		810
	SubDepartment <SubDept>	[0..1]	Text		810
	AddressLine <AdrLine>	[0..2]	Text		810
	StreetName <StrtNm>	[0..1]	Text		811
	BuildingNumber <BldgNb>	[0..1]	Text		811
	PostCode <PstCd>	[0..1]	Text		811
	TownName <TwnNm>	[0..1]	Text		811
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		811
	CountryCode <CtryCd>	[0..1]	Text		811

19.1.7.10.11.5 ShippingAddress <ShppgAdr>

Presence: [0..1]

Definition: Postal address for delivery of goods or services.

ShippingAddress <ShppgAdr> contains the following elements (see "PostalAddress22" on page 809 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		810
	Department <Dept>	[0..1]	Text		810
	SubDepartment <SubDept>	[0..1]	Text		810
	AddressLine <AdrLine>	[0..2]	Text		810
	StreetName <StrtNm>	[0..1]	Text		811
	BuildingNumber <BldgNb>	[0..1]	Text		811
	PostCode <PstCd>	[0..1]	Text		811
	TownName <TwnNm>	[0..1]	Text		811
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		811
	CountryCode <CtryCd>	[0..1]	Text		811

19.1.7.10.11.6 TripNumber <TripNb>

Presence: [0..1]

Definition: Identification of the trip.

Datatype: "Max35Text" on page 929

19.1.7.10.11.7 Vehicle <Vhcl>

Presence: [0..1]

Definition: Information related to the vehicle used for the transaction.

Vehicle <Vhcl> contains the following elements (see "Vehicle1" on page 792 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	VehicleNumber <VhclNb>	[0..1]	Text		793
	TrailerNumber <TrlrNb>	[0..1]	Text		793
	VehicleTag <VhclTag>	[0..1]	Text		794
	VehicleTagEntryMode <VhclTagNtryMd>	[0..1]	CodeSet		794
	UnitNumber <UnitNb>	[0..1]	Text		794
	ReplacementCar <RplcmntCar>	[0..1]	Indicator		794
	Odometer <Odmtr>	[0..1]	Quantity		794
	Hubometer <Hbmtr>	[0..1]	Quantity		795
	TrailerHours <TrlrHrs>	[0..1]	Text		795
	ReferHours <RefrHrs>	[0..1]	Text		795
	Maintenanceldentification <Mntncld>	[0..1]	Text		795
	DriverOrVehicleCard <DrvrOrVhclCard>	[0..1]			795
	PAN <PAN>	[0..1]	Text		795
	Track1 <Trck1>	[0..1]	Text		796
	Track2 <Trck2>	[0..1]	Text		796
	Track3 <Trck3>	[0..1]	Text		796
	AdditionalCardData <AddtlCardData>	[0..*]	Text		796
	EntryMode <NtryMd>	[0..1]	CodeSet		796
	AdditionalVehicleData <AddtlVhclData>	[0..*]			797
	Type <Tp>	[0..1]	Text		797
	EntryMode <NtryMd>	[0..1]	CodeSet		797
	Data <Data>	[1..1]	Text		798

19.1.7.10.11.8 Authentication <Authntcn>

Presence: [0..*]

Definition: Method and data intended to be used for this transaction to authenticate the cardholder and its card.

Authentication <Authntcn> contains the following **CardholderAuthentication13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationMethod <AuthntcnMtd>	[0..1]	CodeSet		744
	AuthenticationExemption <AuthntcnXmptn>	[0..1]	CodeSet		745
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		746
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		746
	CardholderOnLinePIN <CrhdldrOnLinePIN>	[0..1]			746
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747
	CardholderIdentification <CrhdldrId>	[0..1]			747
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <SciSctyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751
	AddressVerification <AdrVrfctn>	[0..1]			751

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752
	AuthenticationType <AuthntcnTp>	[0..1]	Text		752
	AuthenticationLevel <AuthntcnLvl>	[0..1]	Text		752
	AuthenticationResult <AuthntcnRslt>	[0..1]	CodeSet		752
	AuthenticationAdditionalInformation <AuthntcnAddtlInf>	[0..1]			752
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753

19.1.7.10.11.8.1 AuthenticationMethod <AuthntcnMtd>

Presence: [0..1]

Definition: Method and data intended to be used for this transaction to authenticate the cardholder or its card.

Datatype: "AuthenticationMethod8Code" on page 874

CodeName	Name	Definition
TOKA	AuthenticationToken	A token is used to verify an already performed authentication.
ADDB	BillingAddressVerification	Cardholder billing address verification.
BYPS	Bypass	Authentication bypassed by the merchant.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
MANU	ManualVerification	Manual verification, for example passport or drivers license.
MERC	MerchantAuthentication	Merchant-related authentication.
MOBL	Mobile	Customer mobile device.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).

CodeName	Name	Definition
OTHR	Other	Other customer authentication.
PPSG	PaperSignature	Handwritten paper signature.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
PSWD	Password	Authentication by a password.
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
TOKN	TokenAuthentication	Cryptogram generated by the token requestor or a customer device to validate the authorised use of a token.
UKNW	UnknownMethod	Authentication method is performed unknown.

19.1.7.10.11.8.2 AuthenticationExemption <AuthntcnXmptn>

Presence: [0..1]

Definition: If Strong Customer Authentication is not mandated to process the transaction, this message element must identify the reason of exemption.

Datatype: "Exemption1Code" on page 888

CodeName	Name	Definition
LOWA	LowAmountExemption	Transaction's amount is low and could be processed without strong customer authentication.
MINT	MerchantInitiatedTransaction	Transaction is initiated by the Card Acceptor.
RECP	RecurringPayment	Transaction is one of a series of recurring payment.
SCPE	SecureCorporatePaymentExemption	Transaction is a secure corporate payment.
SCAD	StrongCustomerAuthenticationDelegation	Card Acceptor is a strong customer authentication delegate.

CodeName	Name	Definition
TRAE	TransactionRiskAnalysisExemption	According to the transaction risk analysis the strong customer authentication is not mandated.
PKGE	TransportFareOrParkingFeeUnattendedPaymentExemption	Payment is processed in a environment where strong customer authentication is inappropriate.
TMBE	TrustedMerchantBeneficiaryExemption	Cardholder has enrolled the Card Acceptor in the exemption list of strong customer authentication.

19.1.7.10.11.8.3 AuthenticationValue <AuthntcnVal>

Presence: [0..1]

Definition: Value used to authenticate the cardholder.

Datatype: "Max5000Binary" on page 862

19.1.7.10.11.8.4 ProtectedAuthenticationValue <PrctcdAuthntcnVal>

Presence: [0..1]

Definition: Protection of the authentication value.

ProtectedAuthenticationValue <PrctcdAuthntcnVal> contains the following elements (see "ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.10.11.8.5 CardholderOnLinePIN <CrdhldrOnLinePIN>

Presence: [0..1]

Definition: Encrypted personal identification number (PIN) and related information.

CardholderOnLinePIN <CrdhldrOnLinePIN> contains the following **OnLinePIN7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		746
	PINFormat <PINFrmt>	[1..1]	CodeSet		747
	AdditionalInput <AddtlInpt>	[0..1]	Text		747

19.1.7.10.11.8.5.1 EncryptedPINBlock <NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see
"ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.10.11.8.5.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 899

CodeName	Name	Definition
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.

19.1.7.10.11.8.5.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6 CardholderIdentification <Crhdldrld>

Presence: [0..1]

Definition: Identification of the cardholder to verify.

CardholderIdentification <CrhdIdrId> contains the following **PersonIdentification15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriverLicenseNumber <DrvrLicNb>	[0..1]	Text		748
	DriverLicenseLocation <DrvrLicLctn>	[0..1]	Text		748
	DriverLicenseName <DrvrLicNm>	[0..1]	Text		748
	DriverIdentification <DrvrId>	[0..1]	Text		749
	CustomerNumber <CstmrNb>	[0..1]	Text		749
	SocialSecurityNumber <ScIScTyNb>	[0..1]	Text		749
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		749
	PassportNumber <PsptNb>	[0..1]	Text		749
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		749
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		749
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		749
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		750
	JobNumber <JobNb>	[0..1]	Text		750
	Department <Dept>	[0..1]	Text		750
	EmailAddress <EmailAdr>	[0..1]	Text		750
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]			750
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751
	Other <Othr>	[0..*]	±		751

19.1.7.10.11.8.6.1 DriverLicenseNumber <DrvrLicNb>

Presence: [0..1]

Definition: Number assigned by a license authority to a driver's license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.2 DriverLicenseLocation <DrvrLicLctn>

Presence: [0..1]

Definition: Country, state or province, issuer of the driver license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.3 DriverLicenseName <DrvrLicNm>

Presence: [0..1]

Definition: Name or title of the driver license.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.4 DriverIdentification <DrvrlId>

Presence: [0..1]

Definition: Identification of the driver in the fleet of vehicle.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.5 CustomerNumber <CstmrNb>

Presence: [0..1]

Definition: Number assigned by an agent to identify its customer.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.6 SocialSecurityNumber <SciSctyNb>

Presence: [0..1]

Definition: Number assigned by a social security agency.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.7 AlienRegistrationNumber <AlnRegnNb>

Presence: [0..1]

Definition: Number assigned by a government agency to identify foreign nationals.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.8 PassportNumber <PsptNb>

Presence: [0..1]

Definition: Number assigned by a passport authority to a passport.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.9 TaxIdentificationNumber <TaxIdNb>

Presence: [0..1]

Definition: Number assigned by a tax authority to an entity.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.10 IdentityCardNumber <IdntyCardNb>

Presence: [0..1]

Definition: Number assigned by a national authority to an identity card.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.11 EmployerIdentificationNumber <MplyrIdNb>

Presence: [0..1]

Definition: Number assigned to an employer by a registration authority.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.12 EmployeeIdentificationNumber <MplyeeldNb>

Presence: [0..1]

Definition: Number assigned to an employee by a employer.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.13 JobNumber <JobNb>

Presence: [0..1]

Definition: Identification of the job.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.14 Department <Dept>

Presence: [0..1]

Definition: Identification of the department.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.15 EmailAddress <EmailAdr>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 928

19.1.7.10.11.8.6.16 DateAndPlaceOfBirth <DtAndPlcOfBirth>

Presence: [0..1]

Definition: Date and place of birth of a person.

DateAndPlaceOfBirth <DtAndPlcOfBirth> contains the following **DateAndPlaceOfBirth1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		750
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		750
	CityOfBirth <CityOfBirth>	[1..1]	Text		751
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet	C3	751

19.1.7.10.11.8.6.16.1 BirthDate <BirthDt>

Presence: [1..1]

Definition: Date on which a person is born.

Datatype: "ISODate" on page 923

19.1.7.10.11.8.6.16.2 ProvinceOfBirth <PrvcOfBirth>

Presence: [0..1]

Definition: Province where a person was born.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.16.3 CityOfBirth <CityOfBirth>

Presence: [1..1]

Definition: City where a person was born.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.6.16.4 CountryOfBirth <CtryOfBirth>

Presence: [1..1]

Definition: Country where a person was born.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 883

Constraints

- **Country**

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

19.1.7.10.11.8.6.17 Other <Othr>

Presence: [0..*]

Definition: Unique identification of a person, as assigned by an institution, using an identification scheme.

Other <Othr> contains the following elements (see "GenericIdentification4" on page 645 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		645
	IdentificationType <IdTp>	[1..1]	Text		645

19.1.7.10.11.8.7 AddressVerification <AdrVrfctn>

Presence: [0..1]

Definition: Numeric characters of the cardholder's billing or shipping address for verification.

AddressVerification <AdrVrfctn> contains the following **AddressVerification1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressDigits <AdrDgts>	[0..1]	Text		751
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		752

19.1.7.10.11.8.7.1 AddressDigits <AdrDgts>

Presence: [0..1]

Definition: Numeric characters from the cardholder's address excluding the postal code (that is street number).

Datatype: "Max5NumericText" on page 930

19.1.7.10.11.8.7.2 PostalCodeDigits <PstlCdDgts>

Presence: [0..1]

Definition: Numeric characters from the cardholder's postal code.

Datatype: "Max5NumericText" on page 930

19.1.7.10.11.8.8 AuthenticationType <AuthntcnTp>

Presence: [0..1]

Definition: Type of authentication for a given method - e.g. three-domain authentication, scheme-proprietary authentication, etc.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.9 AuthenticationLevel <AuthntcnLvl>

Presence: [0..1]

Definition: Level of authentication for a given type - e.g. value assigned by scheme rules or by bilateral agreements.

Datatype: "Max35Text" on page 929

19.1.7.10.11.8.10 AuthenticationResult <AuthntcnRslt>

Presence: [0..1]

Definition: Result of authentication.

Datatype: "AuthenticationResult1Code" on page 875

CodeName	Name	Definition
DENY	Denial	The authentication didn't succeed.
MRCH	MerchantNotEnroled	Merchant not enrolled in the authentication programme.
CARD	NonParticipation	The card does not participate in the authentication programme.
AUTH	UnableToAuthenticate	The authentication couldn't be carried out.
CRPT	WithCryptogram	Authentication succeeded with a cryptogram.
UCRP	WithoutCryptogram	Authentication succeeded without a cryptogram.

19.1.7.10.11.8.11 AuthenticationAdditionalInformation <AuthntcnAddtlInf>

Presence: [0..1]

Definition: Additional information related to the result of the authentication.

AuthenticationAdditionalInformation <AuthntcnAddtlInf> contains the following
ExternallyDefinedData1 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		753
	Value <Val>	[0..1]	Binary		753
	ProtectedValue <PrctcdVal>	[0..1]	±		753
	Type <Tp>	[0..1]	Text		753

19.1.7.10.11.8.11.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 927

19.1.7.10.11.8.11.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 861

19.1.7.10.11.8.11.3 ProtectedValue <PrctcdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrctcdVal> contains the following elements (see "ContentInformationType23" on page 817 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

19.1.7.10.11.8.11.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

Datatype: "Max1025Text" on page 927

19.1.7.10.11.9 TransactionVerificationResult <TxVrfctnRslt>

Presence: [0..*]

Definition: Result of performed verifications for the transaction.

TransactionVerificationResult <TxVrfctnRsIt> contains the following
TransactionVerificationResult4 elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Method <Mtd>	[1..1]	CodeSet		754
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		755
	Result <RsIt>	[0..1]	CodeSet		755
	AdditionalResult <AddtlRsIt>	[0..1]	Text		755

19.1.7.10.11.9.1 Method <Mtd>

Presence: [1..1]

Definition: Method of verification that has been performed.

Datatype: "AuthenticationMethod6Code" on page 873

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
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.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
ADDB	BillingAddressVerification	Cardholder billing address verification.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.
MANU	ManualVerification	Manual verification, for example passport or drivers license.

CodeName	Name	Definition
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

19.1.7.10.11.9.2 VerificationEntity <VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 872

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.

19.1.7.10.11.9.3 Result <RsIt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 923

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.

19.1.7.10.11.9.4 AdditionalResult <AddtlRsIt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 930

19.1.7.10.11.10 PersonalData <PrsnlData>

Presence: [0..1]

Definition: Identifies personal data related to the cardholder.

Datatype: "Max70Text" on page 930

19.1.7.10.11.11 MobileData <MobData>

Presence: [0..*]

Definition: Data related to the mobile of stakeholder.

MobileData <MobData> contains the following **MobileData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MobileCountryCode <MobCtryCd>	[0..1]	Text		756
	MobileNetworkCode <MobNtwkCd>	[0..1]	Text		756
	MobileMaskedMSISDN <MobMskdMSISDN>	[0..1]	Text		757
	Geolocation <Glctn>	[0..1]			757
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwrld>	[1..1]	Text		758
	UTMNorthward <UTMNrthwrld>	[1..1]	Text		758
	SensitiveMobileData <SnstivMobData>	[0..1]			758
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759
	ProtectedMobileData <PrtctdMobData>	[0..1]	±		759

19.1.7.10.11.11.1 MobileCountryCode <MobCtryCd>

Presence: [0..1]

Definition: Identifies the country of a mobile phone operator.

Datatype: "Min2Max3AlphaText" on page 931

19.1.7.10.11.11.2 MobileNetworkCode <MobNtwkCd>

Presence: [0..1]

Definition: Identifies the mobile phone operator inside a country.

Datatype: "Min2Max3NumericText" on page 931

19.1.7.10.11.11.3 MobileMaskedMSISDN <MobMskdMSISDN>

Presence: [0..1]

Definition: Masked Mobile Subscriber Integrated Service Digital Network.

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.4 Geolocation <Glctn>

Presence: [0..1]

Definition: Geographic location specified by geographic or UTM coordinates.

Geolocation <Glctn> contains the following **Geolocation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	GeographicCoordinates <GeogcCordints>	[0..1]			757
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757
	UTMCoordinates <UTMCordints>	[0..1]			758
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwrdr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		758

19.1.7.10.11.11.4.1 GeographicCoordinates <GeogcCordints>

Presence: [0..1]

Definition: Geographic location specified by geographic coordinates.

GeographicCoordinates <GeogcCordints> contains the following **GeolocationGeographicCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Latitude <Lat>	[1..1]	Text		757
	Longitude <Long>	[1..1]	Text		757

19.1.7.10.11.11.4.1.1 Latitude <Lat>

Presence: [1..1]

Definition: Angular distance of a location on the earth south or north of the equator.

The latitude is 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 the Eiffel Tower latitude.

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.4.1.2 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: 23°27'30" E.

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.4.2 UTMCoordinates <UTMCordints>

Presence: [0..1]

Definition: Geographic location specified by UTM coordinates.

UTMCoordinates <UTMCordints> contains the following **GeolocationUTMCoordinates1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UTMZone <UTMZone>	[1..1]	Text		758
	UTMEastward <UTMEstwr>	[1..1]	Text		758
	UTMNorthward <UTMNrthwr>	[1..1]	Text		758

19.1.7.10.11.11.4.2.1 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).

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.4.2.2 UTMEastward <UTMEstwr>

Presence: [1..1]

Definition: X-coordinate of the Universal Transverse Mercator coordinate system.

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.4.2.3 UTMNorthward <UTMNrthwr>

Presence: [1..1]

Definition: Y-coordinate of the Universal Transverse Mercator coordinate system.

Datatype: "Max35Text" on page 929

19.1.7.10.11.11.5 SensitiveMobileData <SnstvMobData>

Presence: [0..1]

Definition: Sensitive information related to the mobile phone.

SensitiveMobileData <SnstvMobData> contains the following **SensitiveMobileData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MSISDN <MSISDN>	[1..1]	Text		759
	IMSI <IMSI>	[0..1]	Text		759
	IMEI <IMEI>	[0..1]	Text		759

19.1.7.10.11.11.5.1 MSISDN <MSISDN>

Presence: [1..1]

Definition: identifies the mobile - Mobile Subscriber Integrated Service Digital Network (The SIM identifier).

Datatype: "Max35NumericText" on page 929

19.1.7.10.11.11.5.2 IMSI <IMSI>

Presence: [0..1]

Definition: International Mobile Subscriber Identity is a unique number associated with the mobile phone user, containing the Mobile Country Code (MCC), the Mobile Network Code (MNC), and the Mobile Identification Number (MSIN).

Datatype: "Max35NumericText" on page 929

19.1.7.10.11.11.5.3 IMEI <IMEI>

Presence: [0..1]

Definition: International Mobile Equipment Identity is a number usually unique to identify a mobile phone.

Datatype: "Max35NumericText" on page 929

19.1.7.10.11.11.6 ProtectedMobileData <PrtctdMobData>

Presence: [0..1]

Definition: Sensitive information related to the mobile phone, protected by CMS.

ProtectedMobileData <PrtctdMobData> contains the following elements (see "ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.10.12 ProtectedCardholderData <PrtctdCrhdldrData>

Presence: [0..1]

Definition: Replacement of the message element Cardholder by a digital envelope using a cryptographic key.

ProtectedCardholderData <PrctcdCrhdldrData> contains the following elements (see
"ContentInformationType22" on page 831 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.7.10.13 SaleEnvironment <SaleEnv>

Presence: [0..1]

Definition: Sale Retailer Environment for this message.

SaleEnvironment <SaleEnv> contains the following **RetailerSaleEnvironment2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleCapabilities <SaleCpblties>	[0..*]	CodeSet		760
	Currency <Ccy>	[0..1]	CodeSet	C1	761
	MinimumAmountToDeliver <MinAmtToDlvr>	[0..1]	Amount		761
	MaximumCashBackAmount <MaxCshBckAmt>	[0..1]	Amount		761
	MinimumSplitAmount <MinSpltAmt>	[0..1]	Amount		762
	DebitPreferredFlag <DbtPrefrdFlg>	[0..1]	Indicator		762
	LoyaltyHandling <LtyHdlg>	[0..1]	CodeSet		762

19.1.7.10.13.1 SaleCapabilities <SaleCpblties>

Presence: [0..*]

Definition: Capabilities of the Sale system.

Datatype: "SaleCapabilities1Code" on page 913

CodeName	Name	Definition
CHDI	CashierDisplay	Standard Cashier display interface (to ask question, or to show information).
CHER	CashierError	To display to the Cashier information related to an error situation occurring on the POI.
CHIN	CashierInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element). The output device attached to this input device is the CashierDisplay device.
CHST	CashierStatus	To display to the Cashier a new state on which the POI is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.

CodeName	Name	Definition
CUDI	CustomerDisplay	Standard Customer display interface used by the POI System to ask question, or to show information to the Customer inside a Service dialogue.
CUAS	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
CUER	CustomerError	To display to the Customer information is related to an error situation occurring on the Sale Terminal during a Sale transaction.
CUIN	CustomerInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element).
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
PRDC	PrinterDocument	When the POI System wants to print specific document (check, dynamic currency conversion ...).
PRRP	PrinterReceipt	Printer for the Payment receipt.
PRVC	PrinterVoucher	Coupons, voucher or special ticket generated by the POI and to be printed.

19.1.7.10.13.2 Currency <Ccy>

Presence: [0..1]

Definition: Default currency associated with the sale system.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 864

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.

19.1.7.10.13.3 MinimumAmountToDeliver <MinAmtToDlvr>

Presence: [0..1]

Definition: Minimum amount the Sale System is allowed to deliver for this payment.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.10.13.4 MaximumCashBackAmount <MaxCshBckAmt>

Presence: [0..1]

Definition: Maximum amount which could be requested for cash-back.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.10.13.5 MinimumSplitAmount <MinSpltAmt>

Presence: [0..1]

Definition: Minimum amount to split a sale transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.10.13.6 DebitPreferredFlag <DbtPrefrdFlg>

Presence: [0..1]

Definition: Flag if preferred type of payment is a debit transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.10.13.7 LoyaltyHandling <LltyHdlg>

Presence: [0..1]

Definition: Way of Loyalty handling.

Datatype: "LoyaltyHandling1Code" on page 893

CodeName	Name	Definition
ALLO	Allowed	The loyalty is accepted, but the POI has not to require or ask a loyalty card. The loyalty is involved by the payment card (e.g. an hybrid or linked card).
DENY	Forbidden	No loyalty card to read and loyalty transaction to process. Any attempt to enter a pure loyalty card is rejected.
PRCS	Processed	The loyalty transaction is already processed, no loyalty card or loyalty transaction to process.
PROP	Proposed	The loyalty is accepted, and the POI has to ask a loyalty card. If the Customer does not enter a loyalty card, no loyalty transaction is realised.
REQU	Required	The loyalty is required, and the POI refuses the processing of the message request if the cardholder does not enter a loyalty card.

19.1.7.11 CardPaymentContext28

Definition: Context in which the transaction is performed (payment and sale).

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PaymentContext <PmtCntxt>	[0..1]			765
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdhldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttnDncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AtndntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AtndntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FllbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768
	SaleContext <SaleCntxt>	[0..1]			768
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdRReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdRNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegIdR>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772
	RemainingAmount <RmngAmt>	[0..1]	Amount		772

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773
	DirectDebitContext <DrctDbtCntxt>	[0..1]			773
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781
	MandateImage <MndtImg>	[0..1]	Binary		781

19.1.7.11.1 PaymentContext <PmtCntxt>

Presence: [0..1]

Definition: Context of the card payment transaction.

PaymentContext <PmtCntxt> contains the following **PaymentContext27** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardPresent <CardPres>	[0..1]	Indicator		765
	CardholderPresent <CrdhldrPres>	[0..1]	Indicator		765
	OnLineContext <OnLineCntxt>	[0..1]	Indicator		765
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		766
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		766
	TransactionChannel <TxChanl>	[0..1]	CodeSet		766
	AttendantMessageCapable <AttdntMsgCpbl>	[0..1]	Indicator		767
	AttendantLanguage <AttdntLang>	[0..1]	CodeSet	C6	767
	CardDataEntryMode <CardDataNtryMd>	[0..1]	CodeSet		767
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		768
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		768

19.1.7.11.1.1 CardPresent <CardPres>

Presence: [0..1]

Definition: Indicates whether the transaction has been initiated by a card physically present or not.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.1.2 CardholderPresent <CrdhldrPres>

Presence: [0..1]

Definition: Indicates whether the transaction has been initiated in presence of the cardholder or not.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.1.3 OnLineContext <OnLineCntxt>

Presence: [0..1]

Definition: On-line or off-line context of the transaction.

Datatype: One of the following values must be used (see ["TrueFalseIndicator" on page 925](#)):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.1.4 AttendanceContext <AttndncCntxt>

Presence: [0..1]

Definition: Human attendance at the POI (Point Of Interaction) location during the transaction.

Datatype: "AttendanceContext1Code" on page 872

CodeName	Name	Definition
ATTD	Attended	Attended payment, with an attendant.
SATT	SemiAttended	Semi-attended, including self checkout. An attendant supervises several payment, and could be called to help the cardholder.
UATT	Unattended	Unattended payment, no attendant present.

19.1.7.11.1.5 TransactionEnvironment <TxEnv>

Presence: [0..1]

Definition: Indicates the environment of the transaction.

Datatype: "TransactionEnvironment1Code" on page 920

CodeName	Name	Definition
MERC	Merchant	Merchant environment.
PRIV	Private	Private environment.
PUBL	Public	Public environment.

19.1.7.11.1.6 TransactionChannel <TxChanl>

Presence: [0..1]

Definition: Identifies the type of the communication channels used by the cardholder to the acceptor system.

Datatype: "TransactionChannel5Code" on page 919

CodeName	Name	Definition
MAIL	MailOrder	Mail order.
TLPH	TelephoneOrder	Telephone order.
ECOM	ElectronicCommerce	Electronic commerce.
TVPY	TelevisionPayment	Payment on television.
SECM	SecuredElectronicCommerce	Electronic commerce with cardholder authentication.
MOBL	MobilePayment	Payment performed through a cardholder mobile device.
MPOS	MobilePOS	Payment performed through a merchant mobile device.

19.1.7.11.1.7 AttendantMessageCapable <AttndntMsgCpbl>

Presence: [0..1]

Definition: Indicates whether a message can be sent or not on an attendant display (attendant display present or not).

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.1.8 AttendantLanguage <AttndntLang>

Presence: [0..1]

Definition: Language used to display messages to the attendant.

Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**
Must be a valid terrestrial language.

19.1.7.11.1.9 CardDataEntryMode <CardDataNtryMd>

Presence: [0..1]

Definition: Entry mode of the card data.

Datatype: "CardDataReading8Code" on page 878

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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.

CodeName	Name	Definition
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.11.1.10 FallbackIndicator <FllbckInd>

Presence: [0..1]

Definition: Indicator of a card entry mode fallback.

Datatype: "CardFallback1Code" on page 878

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.

19.1.7.11.1.11 SupportedOption <SpprtOptn>

Presence: [0..*]

Definition: Payment options the card acceptor can support.

Datatype: "SupportedPaymentOption1Code" on page 916

CodeName	Name	Definition
PART	PartialApproval	The entity supports a partial approval of the payment transaction.
MSRV	PaymentApprovalOnly	The entity supports the approval of the payment service along with the decline of additional requested services (as cash-back).

19.1.7.11.2 SaleContext <SaleCntxt>

Presence: [0..1]

Definition: Context of the sale involving the card payment transaction.

SaleContext <SaleCntxt> contains the following **SaleContext4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleIdentification <SaleId>	[0..1]	Text		769
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		769
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		770
	CashierIdentification <CshrId>	[0..1]	Text		770
	CashierLanguage <CshrLang>	[0..*]	CodeSet	C6	770
	ShiftNumber <ShiftNb>	[0..1]	Text		770
	CustomerOrderRequestFlag <CstmrOrdrrReqFlg>	[0..1]	Indicator		770
	PurchaseOrderNumber <PurchsOrdrrNb>	[0..1]	Text		770
	InvoiceNumber <InvNb>	[0..1]	Text		770
	DeliveryNoteNumber <DlvryNoteNb>	[0..1]	Text		771
	SponsoredMerchant <SpnsrdMrchnt>	[0..*]			771
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <Regdldr>	[1..1]	Text		771
	SplitPayment <Spltpmt>	[0..1]	Indicator		772
	RemainingAmount <RmngAmt>	[0..1]	Amount		772
	ForceOnlineFlag <ForceOnlnFlg>	[0..1]	Indicator		772
	ReuseCardDataFlag <ReuseCardDataFlg>	[0..1]	Indicator		772
	AllowedEntryMode <AllwdNtryMd>	[0..*]	CodeSet		772
	SaleTokenScope <SaleTknScp>	[0..1]	CodeSet		773
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		773

19.1.7.11.2.1 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the sale terminal (electronic cash register or point of sale terminal) or the sale system.

Datatype: "Max35Text" on page 929

19.1.7.11.2.2 SaleReferenceNumber <SaleRefNb>

Presence: [0..1]

Definition: Identify a sale transaction assigned by the sale system.

Datatype: "Max35Text" on page 929

19.1.7.11.2.3 SaleReconciliationIdentification <SaleRcncltnId>

Presence: [0..1]

Definition: Identifier of the reconciliation between the Sale system and the POI system.

Datatype: "Max35Text" on page 929

19.1.7.11.2.4 CashierIdentification <CshrlId>

Presence: [0..1]

Definition: Identification of the cashier who carried out the transaction.

Datatype: "Max35Text" on page 929

19.1.7.11.2.5 CashierLanguage <CshrLang>

Presence: [0..*]

Definition: Languages used by the cashier.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 892

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

19.1.7.11.2.6 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Identifies the shift of the cashier.

Datatype: "Max2NumericText" on page 928

19.1.7.11.2.7 CustomerOrderRequestFlag <CstmrOrdRReqFlg>

Presence: [0..1]

Definition: Flag indicating that list of CustomerOrders should be returned in response.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.2.8 PurchaseOrderNumber <PurchsOrdRNb>

Presence: [0..1]

Definition: Identification of the purchase order.

Datatype: "Max35Text" on page 929

19.1.7.11.2.9 InvoiceNumber <InvcNb>

Presence: [0..1]

Definition: Identification of the invoice.

Datatype: "Max35Text" on page 929

19.1.7.11.2.10 DeliveryNoteNumber <DivryNoteNb>

Presence: [0..1]

Definition: Identification allocated by the sale system and given to the customer.

Datatype: "Max35Text" on page 929

19.1.7.11.2.11 SponsoredMerchant <SpnsrdMrchnt>

Presence: [0..*]

Definition: Merchant using the payment services of a payment facilitator, acting as a card acceptor.

SponsoredMerchant <SpnsrdMrchnt> contains the following **Organisation26** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CommonName <CmonNm>	[1..1]	Text		771
	Address <Adr>	[0..1]	Text		771
	CountryCode <CtryCd>	[1..1]	CodeSet		771
	MerchantCategoryCode <MrchntCtgyCd>	[1..1]	Text		771
	RegisteredIdentifier <RegldIdr>	[1..1]	Text		771

19.1.7.11.2.11.1 CommonName <CmonNm>

Presence: [1..1]

Definition: Name of the merchant.

Datatype: "Max70Text" on page 930

19.1.7.11.2.11.2 Address <Adr>

Presence: [0..1]

Definition: Location of the merchant.

Datatype: "Max140Text" on page 927

19.1.7.11.2.11.3 CountryCode <CtryCd>

Presence: [1..1]

Definition: Country of the merchant.

Datatype: "ISO3NumericCountryCode" on page 891

19.1.7.11.2.11.4 MerchantCategoryCode <MrchntCtgyCd>

Presence: [1..1]

Definition: Category code conform to ISO 18245, related to the type of services or goods the merchant provides for the transaction.

Datatype: "Min3Max4Text" on page 931

19.1.7.11.2.11.5 RegisteredIdentifier <RegldIdr>

Presence: [1..1]

Definition: Identifier of the sponsored merchant assigned by the payment facilitator of their acquirer.

Datatype: "Max35Text" on page 929

19.1.7.11.2.12 SplitPayment <SpltPmt>

Presence: [0..1]

Definition: True if the payment transaction is a partial payment of the sale transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.2.13 RemainingAmount <RmngAmt>

Presence: [0..1]

Definition: Remaining amount to complete the sale transaction, if a partial payment has been completed for the sale transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.11.2.14 ForceOnlineFlag <ForceOnlnFlg>

Presence: [0..1]

Definition: Indicates if the Cashier requires POI forces online access to the Acquirer.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.2.15 ReuseCardDataFlag <ReuseCardDataFlg>

Presence: [0..1]

Definition: Indicates if the card data has to be taken from a previous transaction.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.11.2.16 AllowedEntryMode <AllwdNtryMd>

Presence: [0..*]

Definition: Type of card data reading.

Datatype: "CardDataReading8Code" on page 878

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.

CodeName	Name	Definition
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).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.1.7.11.2.17 SaleTokenScope <SaleTknScp>

Presence: [0..1]

Definition: Scope of the token that identifies the payment mean of the customer.

Datatype: "SaleTokenScope1Code" on page 914

CodeName	Name	Definition
MULT	MultipleUse	The token is generated to recognise a customer for a longer period.
SNGL	SingleUse	The token is generated to recognise a customer during the lifetime of a transaction.

19.1.7.11.2.18 AdditionalSaleData <AddtlSaleData>

Presence: [0..1]

Definition: Additional information associated with the sale transaction.

Datatype: "Max70Text" on page 930

19.1.7.11.3 DirectDebitContext <DrctDbtCntxt>

Presence: [0..1]

Definition: Context of the direct debit transaction.

DirectDebitContext <DrctDbtCntxt> contains the following **CardDirectDebit2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DebtorIdentification <DbtrId>	[0..1]			774
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778
	CreditorIdentification <CdtrId>	[1..1]			778
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780
	MandateRelatedInformation <MndtRltdInf>	[1..1]			780
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781
	MandateImage <MndtImg>	[0..1]	Binary		781

19.1.7.11.3.1 DebtorIdentification <DbtrId>

Presence: [0..1]

Definition: Information related to the debtor.

DebtorIdentification <DbtrId> contains the following **Debtor4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Debtor <Dbtr>	[0..1]			775
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776
	AccountIdentification <AcctId>	[0..1]			777
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification <Id>	[1..1]	Text		778

19.1.7.11.3.1.1 Debtor <Dbtr>

Presence: [0..1]

Definition: Party that owes an amount of money to the (ultimate) creditor. In the context of the payment model, the debtor is also the debit account owner.

Debtor <Dbtr> contains one of the following **PartyIdentification178Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	775
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		776
Or}	NameAndAddress <NmAndAdr>	[1..1]			776
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776

19.1.7.11.3.1.1.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Unique and unambiguous identifier for an organisation that is allocated by an institution, for example, Dun & Bradstreet Identification.

Impacted by: C2 "AnyBIC"

Datatype: "AnyBICDec2014Identifier" on page 924

Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, and consists of eight (8) or eleven (11) contiguous characters.

19.1.7.11.3.1.1.2 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 "[GenericIdentification36](#)" on page 644 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		644
	Issuer <Issr>	[1..1]	Text		644
	SchemeName <SchmeNm>	[0..1]	Text		645

19.1.7.11.3.1.1.3 NameAndAddress <NmAndAdr>

Presence: [1..1]

Definition: Name by which a party is known and which is usually used to identify that party.

NameAndAddress <NmAndAdr> contains the following **NameAndAddress6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		776
	Address <Adr>	[1..1]	±		776

19.1.7.11.3.1.1.3.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and which is usually used to identify that party.

Datatype: "[Max70Text](#)" on page 930

19.1.7.11.3.1.1.3.2 Address <Adr>

Presence: [1..1]

Definition: Information that locates and identifies a specific address, as defined by postal services.

Address <Adr> contains the following elements (see "PostalAddress2" on page 856 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	StreetName <StrtNm>	[0..1]	Text		856
	PostCodeIdentification <PstCdd>	[1..1]	Text		856
	TownName <TwnNm>	[1..1]	Text		857
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		857
	Country <Ctry>	[1..1]	CodeSet	C3	857

19.1.7.11.3.1.2 AccountIdentification <AcctId>

Presence: [0..1]

Definition: Unique and unambiguous identification for the account between the account owner and the account servicer.

AccountIdentification <AcctId> contains one of the following **CashAccountIdentification7Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IBAN <IBAN>	[1..1]	IdentifierSet	C4	777
Or	BBAN <BBAN>	[1..1]	IdentifierSet		777
Or	UPIC <UPIC>	[1..1]	IdentifierSet		778
Or}	DomesticAccount <DmstAcct>	[1..1]			778
	Identification </Id>	[1..1]	Text		778

19.1.7.11.3.1.2.1 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: "IBAN2007Identifier" on page 924

Constraints

- IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

19.1.7.11.3.1.2.2 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 924

19.1.7.11.3.1.2.3 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 925

19.1.7.11.3.1.2.4 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		778

19.1.7.11.3.1.2.4.1 Identification <Id>

Presence: [1..1]

Definition: Name or number assigned by an entity to enable recognition of that entity, for example, account identifier.

Datatype: "Max35Text" on page 929

19.1.7.11.3.2 CreditorIdentification <CdtrId>

Presence: [1..1]

Definition: Information related to the creditor.

CreditorIdentification <CdtrId> contains the following **Creditor4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Creditor <Cdtr>	[1..1]			779
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780
	RegistrationIdentification <RegnId>	[0..1]	Text		780

19.1.7.11.3.2.1 Creditor <Cdtr>

Presence: [1..1]

Definition: Party that receives an amount of money from the debtor. In the context of the payment model, the creditor is also the credit account owner.

Creditor <Cdtr> contains one of the following **PartyIdentification178Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet	C2	779
Or	ProprietaryIdentification <PrtryId>	[1..1]	±		779
Or}	NameAndAddress <NmAndAdr>	[1..1]			779
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780

19.1.7.11.3.2.1.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Unique and unambiguous identifier for an organisation that is allocated by an institution, for example, Dun & Bradstreet Identification.

Impacted by: C2 "AnyBIC"

Datatype: "AnyBICDec2014Identifier" on page 924

Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered and published by the ISO 9362 Registration Authority in the ISO directory of BICs, and consists of eight (8) or eleven (11) contiguous characters.

19.1.7.11.3.2.1.2 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 "GenericIdentification36" on page 644 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		644
	Issuer <Issr>	[1..1]	Text		644
	SchemeName <SchmeNm>	[0..1]	Text		645

19.1.7.11.3.2.1.3 NameAndAddress <NmAndAdr>

Presence: [1..1]

Definition: Name by which a party is known and which is usually used to identify that party.

NameAndAddress <NmAndAdr> contains the following **NameAndAddress6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		780
	Address <Adr>	[1..1]	±		780

19.1.7.11.3.2.1.3.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and which is usually used to identify that party.

Datatype: "Max70Text" on page 930

19.1.7.11.3.2.1.3.2 Address <Adr>

Presence: [1..1]

Definition: Information that locates and identifies a specific address, as defined by postal services.

Address <Adr> contains the following elements (see "PostalAddress2" on page 856 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	StreetName <StrtNm>	[0..1]	Text		856
	PostCodeIdentification <PstCdId>	[1..1]	Text		856
	TownName <TwnNm>	[1..1]	Text		857
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		857
	Country <Ctry>	[1..1]	CodeSet	C3	857

19.1.7.11.3.2.2 RegistrationIdentification <RegnId>

Presence: [0..1]

Definition: Reference assigned to a creditor by its financial institution, or relevant authority, authorising the creditor to take part in a direct debit scheme.

Datatype: "Max35Text" on page 929

19.1.7.11.3.3 MandateRelatedInformation <MndtRltdInf>

Presence: [1..1]

Definition: Provides further details of the mandate signed between the creditor and the debtor.

MandateRelatedInformation <MndtRltdInf> contains the following **MandateRelatedInformation13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MandateIdentification <MndtId>	[1..1]	Text		781
	DateOfSignature <DtOfSgntr>	[0..1]	Date		781
	MandateImage <MndtImg>	[0..1]	Binary		781

19.1.7.11.3.3.1 MandateIdentification <MndtId>

Presence: [1..1]

Definition: Unique identification, as assigned by the creditor, to unambiguously identify the mandate.

Datatype: "Max35Text" on page 929

19.1.7.11.3.3.2 DateOfSignature <DtOfSgntr>

Presence: [0..1]

Definition: Date on which the direct debit mandate has been signed by the debtor.

Datatype: "ISODate" on page 923

19.1.7.11.3.3.3 MandateImage <MndtImg>

Presence: [0..1]

Definition: Image of scanned signed mandate.

Datatype: "Max2MBBinary" on page 861

19.1.7.12 ActionMessage7

Definition: Information to display, print or store.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		781
	InformationQualifier <InfQlfr>	[0..1]	CodeSet		782
	Format <Frmt>	[0..1]	CodeSet		783
	MessageContent <MsgCntt>	[1..1]	Text		783
	MessageContentSignature <MsgCnttSgntr>	[0..1]	±		783
	OutputBarcode <OutptBrcd>	[0..1]			783
	BarcodeType <BrcdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrcdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrctn>	[0..1]	CodeSet		785
	ResponseRequiredFlag <RspnReqrdFlg>	[0..1]	Indicator		785
	MinimumDisplayTime <MinDispTm>	[0..1]	Quantity		785

19.1.7.12.1 MessageDestination <MsgDstn>

Presence: [1..1]

Definition: Destination of the message.

Datatype: "UserInterface4Code" on page 922

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

19.1.7.12.2 InformationQualifier <InfQlfr>

Presence: [0..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 889

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

19.1.7.12.3 Format <Frmt>

Presence: [0..1]

Definition: Message format.

Datatype: "OutputFormat3Code" on page 896

CodeName	Name	Definition
BARC	Barcode	Barcode to output in several possible format.
MENT	MenuEntry	A text to display as a menu before requesting an input.
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.

19.1.7.12.4 MessageContent <MsgCntt>

Presence: [1..1]

Definition: Content or reference of the message.

Datatype: "Max20000Text" on page 928

19.1.7.12.5 MessageContentSignature <MsgCnttSgntr>

Presence: [0..1]

Definition: Digital signature of the message.

MessageContentSignature <MsgCnttSgntr> contains the following elements (see "ContentInformationType21" on page 836 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

19.1.7.12.6 OutputBarcode <OutptBrcd>

Presence: [0..1]

Definition: Content of message displayed or printed as Barcode.

OutputBarcode <OutptBrcd> contains the following **OutputBarcode1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BarcodeType <BrCdTp>	[1..1]	CodeSet		784
	BarcodeValue <BrCdVal>	[0..1]	Text		784
	QRCodeBinaryValue <QRCDBinryVal>	[0..1]	Binary		784
	QRCodeVersion <QRCDVrsn>	[0..1]	Text		785
	QRCodeEncodingMode <QRCDNcodgMd>	[1..1]	CodeSet		785
	QRCodeErrorCorrection <QRCDErrCrrctn>	[0..1]	CodeSet		785

19.1.7.12.6.1 BarcodeType <BrCdTp>

Presence: [1..1]

Definition: Type of Barcode coding.

Datatype: "BarcodeType1Code" on page 875

CodeName	Name	Definition
COQR	BarcodeEncodedAs2DQRCode	Barcode encoded according to the 2Dimensions Quick Response Code Standard.
C128	BarcodeEncodedAsCode128	Barcode encoded according to the Code 128 standard.
C025	BarcodeEncodedAsCode25	Barcode encoded according to the Code 25 standard.
C039	BarcodeEncodedAsCode39	Barcode encoded according to the Code 39 standard.
EA13	BarcodeEncodedAsEA13	Barcode encoded according to the EAN13 standard.
EAN8	BarcodeEncodedAsEAN8	Barcode encoded according to the EAN8 standard.
P417	BarcodeEncodedAsPDF417	Barcode encoded according to the PDF417 standard.
UPCA	BarcodeEncodedAsUPCA	Barcode encoded according to the UPCA standard.

19.1.7.12.6.2 BarcodeValue <BrCdVal>

Presence: [0..1]

Definition: Value with a Barcode coding.

Datatype: "Max8000Text" on page 931

19.1.7.12.6.3 QRCodeBinaryValue <QRCDBinryVal>

Presence: [0..1]

Definition: Use for binary and Kanji Quick Response Code.

Datatype: "Max3000Binary" on page 862

19.1.7.12.6.4 QRCodeVersion <QRCDVrsn>

Presence: [0..1]

Definition: Version of the Quick Response Code.

Datatype: "Max16Text" on page 928

19.1.7.12.6.5 QRCodeEncodingMode <QRCDNcodgMd>

Presence: [1..1]

Definition: Encoding Mode of Quick Response Code.

Datatype: "QRCodeEncodingMode1Code" on page 902

CodeName	Name	Definition
ALFA	Alphanumeric	Alphanumeric value provided in Barcode field.
BINA	Binary	Binary value provided in Quick Response Code Binary Value.
KANJ	Kanji	Kanji value provided in Quick Response Code Binary Value.
NUME	Numeric	Numeric value provided in Barcode field.

19.1.7.12.6.6 QRCodeErrorCorrection <QRCDErrCrrctn>

Presence: [0..1]

Definition: Error Correction mode of Quick Response Code.

Datatype: "QRCodeErrorCorrection1Code" on page 902

CodeName	Name	Definition
M015	ErrorCorrection15Percent	Reed-Solomon error correction 15%
Q025	ErrorCorrection25Percent	Reed-Solomon error correction 25%
H030	ErrorCorrection30Percent	Reed-Solomon error correction 30%
L007	ErrorCorrection7Percent	Reed-Solomon error correction 7%

19.1.7.12.7 ResponseRequiredFlag <RspnReqrdFlg>

Presence: [0..1]

Definition: Flag to request a message response.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.12.8 MinimumDisplayTime <MinDispTm>

Presence: [0..1]

Definition: Number of seconds the message has to be displayed.

Datatype: "Number" on page 926

19.1.7.13 ResponseType9

Definition: Response of a requested service.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Response <Rspn>	[1..1]	CodeSet		786
	ResponseReason <RspnRsn>	[0..1]	CodeSet		786
	AdditionalResponseInformation <AddtlRspnInf>	[0..1]	Text		787

19.1.7.13.1 Response <Rspn>

Presence: [1..1]

Definition: Result of the requested transaction.

Datatype: "Response5Code" on page 903

CodeName	Name	Definition
SUCC	Success	Processing OK. Information related to the result of the processing is contained in other parts of the response message.
FAIL	Failure	Processing of the request fails for various reasons. Some further processing according to the type of requested service, the context of the process, and some additional precision about the failure notified in the ErrorCondition data element.
PART	PartialApproved	Service has been partialy provided.

19.1.7.13.2 ResponseReason <RspnRsn>

Presence: [0..1]

Definition: Detail of the response.

Datatype: "RetailerResultDetail1Code" on page 905

CodeName	Name	Definition
ABRT	Aborted	The Initiator of the request has sent an Abort message request, which was accepted and processed.
BUSY	Busy	The system is busy, try later.
CANC	Cancel	The user has aborted the transaction on the PED keyboard, for instance during PIN entering.
DEVO	DeviceOut	Device out of order.
WPIN	WrongPIN	The user has entered the PIN on the PED keyboard and the verification fails.
NHOS	UnreachableHost	Acquirer or any host is unreachable or has not answered to an online request, so is considered as temporary unavailable. Depending on the Sale

CodeName	Name	Definition
		context, the request could be repeated (to be compared with "Refusal").
UNVS	UnavailableService	The service is not available (not implemented, not configured, protocol version too old...).
UNVD	UnavailableDevice	The hardware is not available (absent, not configured...).
REFU	Refusal	The transaction is refused by the host or by the local rules associated to the card or the POI.
PAYR	PaymentRestriction	Some sale items are not payable by the card proposed by the Customer.
TNFD	NotFound	The transaction is not found (e.g. for a reversal or a repeat).
NALW	NotAllowed	A service request is sent during a Service dialogue. A combination of services not possible to provide. During the DeviceInitialisationCardReader message processing, the user has entered a card which has to be protected by the POI, and cannot be processed with this device request from the external, and then the Sale System.
LOUT	LoggedOut	Not logged in.
IVCA	InvalidCard	The card entered by the Customer cannot be processed by the POI because this card is not configured in the system.
ICAR	InsertedCard	If the Input Device request a NotifyCardInputFlag and the Customer enters a card in the card reader without answers to the Input command, the POI abort the Input command processing, and answer a dedicated ErrorCondition value in the Input response message.
WIPG	InProgress	The transaction is still in progress and then the command cannot be processed.

19.1.7.13.3 AdditionalResponseInformation <AddtlRspnInf>

Presence: [0..1]

Definition: Additional information to be logged for further examination.

Datatype: "Max140Text" on page 927

19.1.7.14 Product6

Definition: Purchased item.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ItemIdentification <ItmId>	[0..1]	Text		788
	ProductCode <PdctCd>	[1..1]	Text		788
	AdditionalProductCode <AddtlPdctCd>	[0..1]	Text		788
	UnitOfMeasure <UnitOfMeasr>	[0..1]	CodeSet		788
	ProductQuantity <PdctQty>	[0..1]	Quantity		790
	UnitPrice <UnitPric>	[0..1]	Amount		790
	UnitPriceSign <UnitPricSgn>	[0..1]	Indicator		790
	ProductAmount <PdctAmt>	[1..1]	Amount		791
	ProductAmountSign <PdctAmtSgn>	[0..1]	Indicator		791
	ValueAddedTax <ValAddedTax>	[0..1]	Amount		791
	TaxType <TaxTp>	[0..1]	Text		791
	ProductDescription <PdctDesc>	[0..1]	Text		791
	DeliveryLocation <DlvryLctn>	[0..1]	Text		791
	DeliveryService <DlvrySvc>	[0..1]	CodeSet		791
	SaleChannel <SaleChanl>	[0..1]	Text		792
	AdditionalProductDescription <AddtlPdctDesc>	[0..1]	Text		792

19.1.7.14.1 ItemIdentification <ItmId>

Presence: [0..1]

Definition: Identification of the item inside the purchase transaction.

Datatype: "Max35Text" on page 929

19.1.7.14.2 ProductCode <PdctCd>

Presence: [1..1]

Definition: Product code of the item.

Datatype: "Max70Text" on page 930

19.1.7.14.3 AdditionalProductCode <AddtlPdctCd>

Presence: [0..1]

Definition: Additional product code related to the product.

Datatype: "Max70Text" on page 930

19.1.7.14.4 UnitOfMeasure <UnitOfMeasr>

Presence: [0..1]

Definition: Unit of measure of the item purchased.

Datatype: "UnitOfMeasure6Code" on page 921

CodeName	Name	Definition
PIEC	Piece	Standard length of cloth, wallpaper, as an item for sale or amount of a substance.
TONS	Ton	Measure of weight, in Britain 2240lb (long ton)and in the US 2000lb (short ton).
FOOT	Foot	Unit of length equal to 1/3 yard.
GBGA	GBGallon	Unit of volume that is equal to 8 pints.
USGA	USGallon	Unit of volume that is equal to 8 pints.
GRAM	Gram	Unit of measure that is equal to a 1, 000th of a kilo.
INCH	Inch	Measure of length equal to 2.54 cm.
KILO	Kilogram	Basic unit of mass in the SI system, 1000 grams.
PUND	Pound	Unit of weight equal to 0.454 kilograms.
METR	Metre	Unit of length in the metric system, equal to 39.37 inches.
CMET	Centimetre	Unit of measure that is equal to one hundredth of a metre.
MMET	Millimetre	Unit of measure that is a thousandth of one metre.
LITR	Litre	Unit of volume that is equal to a thousand cubic centimetres.
CELI	Centilitre	Unit of volume that is equal to one hundredth of a litre.
MILI	MilliLitre	Unit of volume that is equal to one thousandth of a litre.
GBOU	GBOunce	Unit of weight equal to a sixteenth of a pound.
USOU	USOunce	Unit of weight equal to a sixteenth of a pound.
GBQA	GBQuart	Unit of volume that is equal to 2 pints.
USQA	USQuart	Unit of volume that is equal to 2 pints.
GBPI	GBPint	Unit of volume that is equal to 568 cubic centimetres.
USPI	USPint	Unit of volume that is equal to 473 cubic centimetres.
MILE	Mile	Unit of length equal to 1, 760 yards.
KMET	Kilometre	Unit of measure that is equal to 1, 000 meters.
YARD	Yard	Unit of length equal to 3 feet or 0.9144 metre.
SQKI	SquareKilometre	Measure of a surface, one kilometre by one kilometre.

CodeName	Name	Definition
HECT	Hectare	Unit of measure that is equal to 10, 000 square meters.
ARES	Are	Unit of measure equal to a 100 square meters.
SMET	SquareMetre	Measure of a surface, one metre by one metre.
SCMT	SquareCentimetre	Measure of a surface, one centimetre by one centimetre.
SMIL	SquareMillimetre	Measure of a surface, one millimetre by one millimetre.
SQMI	SquareMile	Measure of a surface, one mile by one mile.
SQYA	SquareYard	Measure of a surface, one yard by one yard.
SQFO	SquareFoot	Measure of a surface, one foot by one foot.
SQIN	SquareInch	Measure of a surface, one inch by one inch.
ACRE	Acre	Unit of measure equal to 4, 840 square yards.
KWHO	KilowattHours	Unit of measure that is equal to the power consumption of one kilowatt during one hour.
DGEU	DieselGallonEquivalent	Amount of fuel alternative equal to one gallon of diesel.
GGEU	GasolineGallonEquivalent	Amount of fuel alternative equal to one gallon of gasoline.

19.1.7.14.5 ProductQuantity <PdctQty>

Presence: [0..1]

Definition: Product quantity.

Datatype: "DecimalNumber" on page 925

19.1.7.14.6 UnitPrice <UnitPric>

Presence: [0..1]

Definition: Price per unit of product.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.14.7 UnitPriceSign <UnitPricSgn>

Presence: [0..1]

Definition: Sign of the unit price.

Datatype: One of the following values must be used (see "PlusOrMinusIndicator" on page 925):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

19.1.7.14.8 ProductAmount <PdctAmt>

Presence: [1..1]

Definition: Monetary value of purchased product.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.14.9 ProductAmountSign <PdctAmtSgn>

Presence: [0..1]

Definition: Sign of the product amount.

Datatype: One of the following values must be used (see "PlusOrMinusIndicator" on page 925):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

19.1.7.14.10 ValueAddedTax <ValAddedTax>

Presence: [0..1]

Definition: Value added tax amount of the item included in the product amount.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.14.11 TaxType <TaxTp>

Presence: [0..1]

Definition: Information on tax paid on the product.

Datatype: "Max35Text" on page 929

19.1.7.14.12 ProductDescription <PdctDesc>

Presence: [0..1]

Definition: Description of the product or item.

Datatype: "Max140Text" on page 927

19.1.7.14.13 DeliveryLocation <DlvryLctn>

Presence: [0..1]

Definition: Location of the delivery of the item, for instance pump number or parking bay.

Datatype: "Max10Text" on page 927

19.1.7.14.14 DeliveryService <DlvrySvc>

Presence: [0..1]

Definition: Identify the method of delivery or distribution of the item.

Datatype: "AttendanceContext2Code" on page 872

CodeName	Name	Definition
ATTL	AttendantDelivery	Delivery by an attendant.
CARR	CarrierDelivery	Delivery by a carrier.
CUST	CustomerDelivery	Delivery by the customer.
FULL	FullServe	Full service for fuel distribution.
SELF	SelfServe	Self service for fuel distribution.

19.1.7.14.15 SaleChannel <SaleChanI>

Presence: [0..1]

Definition: Commercial or distribution channel associated to the line item.

Datatype: "Max70Text" on page 930

19.1.7.14.16 AdditionalProductDescription <AddtlPdctDesc>

Presence: [0..1]

Definition: Additional information related to the line item.

Datatype: "Max256Text" on page 928

19.1.7.15 Vehicle1

Definition: Information related to a vehicle used during a transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	VehicleNumber <VhclNb>	[0..1]	Text		793
	TrailerNumber <TrlrNb>	[0..1]	Text		793
	VehicleTag <VhclTag>	[0..1]	Text		794
	VehicleTagEntryMode <VhclTagNtryMd>	[0..1]	CodeSet		794
	UnitNumber <UnitNb>	[0..1]	Text		794
	ReplacementCar <RplcmntCar>	[0..1]	Indicator		794
	Odometer <Odmttr>	[0..1]	Quantity		794
	Hubometer <Hbmtr>	[0..1]	Quantity		795
	TrailerHours <TrlrHrs>	[0..1]	Text		795
	ReferHours <RefrHrs>	[0..1]	Text		795
	Maintenanceldentification <Mntncld>	[0..1]	Text		795
	DriverOrVehicleCard <DrvrOrVhclCard>	[0..1]			795
	PAN <PAN>	[0..1]	Text		795
	Track1 <Trck1>	[0..1]	Text		796
	Track2 <Trck2>	[0..1]	Text		796
	Track3 <Trck3>	[0..1]	Text		796
	AdditionalCardData <AddtlCardData>	[0..*]	Text		796
	EntryMode <NtryMd>	[0..1]	CodeSet		796
	AdditionalVehicleData <AddtlVhclData>	[0..*]			797
	Type <Tp>	[0..1]	Text		797
	EntryMode <NtryMd>	[0..1]	CodeSet		797
	Data <Data>	[1..1]	Text		798

19.1.7.15.1 VehicleNumber <VhclNb>

Presence: [0..1]

Definition: Number assigned to the vehicle for identification.

Datatype: "Max35NumericText" on page 929

19.1.7.15.2 TrailerNumber <TrlrNb>

Presence: [0..1]

Definition: Number assigned to the vehicle trailer for identification.

Datatype: "Max35NumericText" on page 929

19.1.7.15.3 VehicleTag <VhclTag>

Presence: [0..1]

Definition: Registration tag of the vehicle.

Datatype: "Max35Text" on page 929

19.1.7.15.4 VehicleTagEntryMode <VhclTagNtryMd>

Presence: [0..1]

Definition: Entry mode of the registration tag.

Datatype: "CardDataReading5Code" on page 877

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).
CDFL	CardOnFile	Card information are stored on a file.

19.1.7.15.5 UnitNumber <UnitNb>

Presence: [0..1]

Definition: Identification of the vehicle in the fleet.

Datatype: "Max35NumericText" on page 929

19.1.7.15.6 ReplacementCar <RplcmntCar>

Presence: [0..1]

Definition: True if the car is a replacement car.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.1.7.15.7 Odometer <Odmtr>

Presence: [0..1]

Definition: Odometer reading value indicating the distance travelled by the vehicle.

Datatype: "DecimalNumber" on page 925

19.1.7.15.8 Hubometer <Hbmtr>

Presence: [0..1]

Definition: Hubometer reading value indicating the distance travelled by the trailer.

Datatype: "DecimalNumber" on page 925

19.1.7.15.9 TrailerHours <TrlrHrs>

Presence: [0..1]

Definition: Number of hours the trailer has been in operation.

Datatype: "Max35Text" on page 929

19.1.7.15.10 ReferHours <RefrHrs>

Presence: [0..1]

Definition: Number of hours the refer unit has been in operation.

Datatype: "Max35Text" on page 929

19.1.7.15.11 Maintenanceldentification <Mntncld>

Presence: [0..1]

Definition: Identification assigned to the vehicle related to maintenance.

Datatype: "Max35Text" on page 929

19.1.7.15.12 DriverOrVehicleCard <DrvrOrVhclCard>

Presence: [0..1]

Definition: Second card presented for the payment transaction.

DriverOrVehicleCard <DrvrOrVhclCard> contains the following **PlainCardData17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[0..1]	Text		795
	Track1 <Trck1>	[0..1]	Text		796
	Track2 <Trck2>	[0..1]	Text		796
	Track3 <Trck3>	[0..1]	Text		796
	AdditionalCardData <AddtlCardData>	[0..*]	Text		796
	EntryMode <NtryMd>	[0..1]	CodeSet		796

19.1.7.15.12.1 PAN <PAN>

Presence: [0..1]

Definition: Primary Account Number (PAN) of the card.

Datatype: "Min8Max28NumericText" on page 932

19.1.7.15.12.2 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 931

19.1.7.15.12.3 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 929

19.1.7.15.12.4 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 927

19.1.7.15.12.5 AdditionalCardData <AddtlCardData>

Presence: [0..*]

Definition: Additional card issuer specific data.

Datatype: "Max35Text" on page 929

19.1.7.15.12.6 EntryMode <NtryMd>

Presence: [0..1]

Definition: Entry mode of the card.

Datatype: "CardDataReading5Code" on page 877

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

CodeName	Name	Definition
		(standard initiated by Europay, Mastercard and Visa).
CDFL	CardOnFile	Card information are stored on a file.

19.1.7.15.13 AdditionalVehicleData <AddtlVhclData>

Presence: [0..*]

Definition: Additional information related to the vehicle.

AdditionalVehicleData <AddtlVhclData> contains the following **Vehicle2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[0..1]	Text		797
	EntryMode <NtryMd>	[0..1]	CodeSet		797
	Data <Data>	[1..1]	Text		798

19.1.7.15.13.1 Type <Tp>

Presence: [0..1]

Definition: Type of information related to the vehicle.

Datatype: "Max35Text" on page 929

19.1.7.15.13.2 EntryMode <NtryMd>

Presence: [0..1]

Definition: Entry mode of the information.

Datatype: "CardDataReading5Code" on page 877

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).
CDFL	CardOnFile	Card information are stored on a file.

19.1.7.15.13.3 Data <Data>

Presence: [1..1]

Definition: Information related to the vehicle.

Datatype: "Max35Text" on page 929

19.1.7.16 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		798
	KeyVersion <KeyVrsn>	[1..1]	Text		798
	SequenceNumber <SeqNb>	[0..1]	Quantity		798
	DerivationIdentification <DerivtnId>	[0..1]	Binary		798

19.1.7.16.1 KeyIdentification <KeyId>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 927

19.1.7.16.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 927

19.1.7.16.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 926

19.1.7.16.4 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 863

19.1.7.17 EncapsulatedContent3

Definition: Data to authenticate.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		799
	Content <Cntt>	[0..1]	Binary		799

19.1.7.17.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been authenticated.

Datatype: "ContentType2Code" on page 883

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).

19.1.7.17.2 Content <Cntt>

Presence: [0..1]

Definition: Actual data to authenticate.

Datatype: "Max100KBinary" on page 861

19.1.7.18 TransactionIdentifier1

Definition: Identification of the transaction in an unambiguous way.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionDateTime <TxDtTm>	[1..1]	DateTime		799
	TransactionReference <TxRef>	[1..1]	Text		799

19.1.7.18.1 TransactionDateTime <TxDtTm>

Presence: [1..1]

Definition: Local date and time of the transaction assigned by the POI (Point Of Interaction).

Datatype: "ISODateTime" on page 923

19.1.7.18.2 TransactionReference <TxRef>

Presence: [1..1]

Definition: Identification of the transaction that has to be unique for a time period.

Datatype: "Max35Text" on page 929

19.1.7.19 CustomerDevice1

Definition: Device used by the customer to perform the payment.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		800
	Type <Tp>	[0..1]	Text		800
	Provider <Prvdr>	[0..1]	Text		800

19.1.7.19.1 Identification <Id>

Presence: [0..1]

Definition: Identifier of the component.

Datatype: "Max35Text" on page 929

19.1.7.19.2 Type <Tp>

Presence: [0..1]

Definition: Type of component.

Datatype: "Max35Text" on page 929

19.1.7.19.3 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the component.

Datatype: "Max35Text" on page 929

19.1.7.20 RecurringTransaction2

Definition: Financial loan (instalment) or a recurring transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InstalmentPlan <InstlmtPlan>	[0..*]	CodeSet		801
	PlanIdentification <PlanId>	[0..1]	Text		801
	SequenceNumber <SeqNb>	[0..1]	Quantity		801
	PeriodUnit <PrdUnit>	[0..1]	CodeSet		801
	InstalmentPeriod <InstlmtPrd>	[0..1]	Quantity		802
	TotalNumberOfPayments <TtlNbOfPmts>	[0..1]	Quantity		802
	FirstPaymentDate <FrstPmtDt>	[0..1]	Date		802
	TotalAmount <TtlAmt>	[0..1]	Amount	C7	802
	FirstAmount <FrstAmt>	[0..1]	Amount		802
	Charges <Chrgs>	[0..1]	Amount		803

19.1.7.20.1 InstalmentPlan <InstlmtPlan>

Presence: [0..*]

Definition: Type of instalment plan.

Datatype: "InstalmentPlan1Code" on page 891

CodeName	Name	Definition
EQPM	EqualPayment	The payment is split in several instalments of equal amounts.
NQPM	InequalPayment	The payment is split in several instalments of different amounts.
DFRI	DeferredInstalment	The first instalment is deferred.

19.1.7.20.2 PlanIdentification <PlanId>

Presence: [0..1]

Definition: Identification of the instalment plan.

Datatype: "Max35Text" on page 929

19.1.7.20.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Indicates the recurring/instalment occurrence of the transaction (1 = 1st instalment, 2 = 2nd instalment, etc.).

Datatype: "Number" on page 926

19.1.7.20.4 PeriodUnit <PrdUnit>

Presence: [0..1]

Definition: Period unit between consecutive payments (for example day, month, year).

Datatype: "Frequency3Code" on page 889

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.

19.1.7.20.5 InstalmentPeriod <InstlmtPrd>

Presence: [0..1]

Definition: Number of period units between consecutive payments.

Datatype: "Number" on page 926

19.1.7.20.6 TotalNumberOfPayments <TtlNbOfPmts>

Presence: [0..1]

Definition: Total number of instalment payments.

Datatype: "Number" on page 926

19.1.7.20.7 FirstPaymentDate <FrstPmtDt>

Presence: [0..1]

Definition: Date of the first payment.

Datatype: "ISODate" on page 923

19.1.7.20.8 TotalAmount <TtlAmt>

Presence: [0..1]

Definition: Cumulative amount of all the instalments.

Impacted by: C7 "ValidationByTable"

Datatype: "CurrencyAndAmount" on page 860

Constraints

- **ValidationByTable**

Must be a valid currency code which is registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

19.1.7.20.9 FirstAmount <FrstAmt>

Presence: [0..1]

Definition: Amount of the first payment.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.7.20.10 Charges <Chrgs>

Presence: [0..1]

Definition: Charges related to the transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 860

19.1.8 Monitoring

19.1.8.1 Traceability8

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		803
	ProtocolName <PrtcolNm>	[0..1]	Text		804
	ProtocolVersion <PrtcolVrsn>	[0..1]	Text		804
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		804
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		804

19.1.8.1.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlyId> contains the following elements (see "GenericIdentification177" on page 637 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		637
	Type <Tp>	[0..1]	CodeSet		637
	Issuer <Issr>	[0..1]	CodeSet		638
	Country <Ctry>	[0..1]	Text		638
	ShortName <ShrtNm>	[0..1]	Text		638
	RemoteAccess <RmotAccs>	[0..1]	±		639
	Geolocation <Glctn>	[0..1]			639
	GeographicCoordinates <GeogcCordints>	[0..1]			639
	Latitude <Lat>	[1..1]	Text		640
	Longitude <Long>	[1..1]	Text		640
	UTMCoordinates <UTMCordints>	[0..1]			640
	UTMZone <UTMZone>	[1..1]	Text		640
	UTMEastward <UTMEstwrdr>	[1..1]	Text		640
	UTMNorthward <UTMNrthwrdr>	[1..1]	Text		641

19.1.8.1.2 ProtocolName <PrtcolNm>

Presence: [0..1]

Definition: Name of the outgoing protocol used by the node.

Datatype: "Max35Text" on page 929

19.1.8.1.3 ProtocolVersion <PrtcolVrsn>

Presence: [0..1]

Definition: Version of the protocol.

Datatype: "Max6Text" on page 930

19.1.8.1.4 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

19.1.8.1.5 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 923

19.1.8.2 TMSEvent7

Definition: Result of an individual terminal management action performed by the point of interaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TimeStamp <TmStmp>	[1..1]	DateTime		805
	Result <RsIt>	[1..1]	CodeSet		805
	ActionIdentification <ActnId>	[1..1]			806
	ActionType <ActnTp>	[1..1]	CodeSet		806
	DataSetIdentification <DataSetId>	[0..1]	±		807
	AdditionalErrorInformation <AddtlErrInf>	[0..1]	Text		807
	TerminalManagerIdentification <TermnlMgrld>	[0..1]	Text		807

19.1.8.2.1 TimeStamp <TmStmp>

Presence: [1..1]

Definition: Date time of the terminal management action performed by the point of interaction.

Datatype: "ISODatetime" on page 923

19.1.8.2.2 Result <RsIt>

Presence: [1..1]

Definition: Final result of the processed terminal management action.

Datatype: "TerminalManagementActionResult4Code" on page 917

CodeName	Name	Definition
ACCD	AccessDenied	Access is denied while performing the action.
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
INVC	InvalidContent	Content of the data is invalid.
LENE	LengthError	Data transferred has a wrong length.
OVER	MemoryOverflow	Memory to store the date exceeded.
MISS	MissingFile	Data set to be maintained is missing.
NSUP	NotSupported	Action is not supported.
SIGE	SignatureError	Data transferred has a wrong digital signature.
SUCC	Success	Action was successfully performed.
SYNE	SyntaxError	Data transferred has a wrong syntax.
TIMO	Timeout	Timeout expired during the data transfer.
UKDT	UnknownData	Data set identification invalid.

CodeName	Name	Definition
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.
INDP	InvalidDelegationProof	Delegation Proof transmitted by the delegated TMS is not the one expected.
IDMP	InvalidDelegationInManagementPlan	One action of the AcceptorManagementPlan refers to an update unauthorized by the delegation.
DPRU	DelegationParametersReceivedUnauthorized	The content analysis of the AcceptorConfigurationUpdate reveals unexpected parameters.
AERR	AnyError	This code value means all TerminalManagementActionResultCode except "Any Error" and "Unlisted Error".
CMER	CommunicationError	Error in communication once the connection has been established.
ULER	UnlistedError	Any error that is not defined by a code value inside the TerminalManagementActionResultCode.

19.1.8.2.3 ActionIdentification <ActnId>

Presence: [1..1]

Definition: Identification of the terminal management action performed by the point of interaction.

ActionIdentification <ActnId> contains the following **TMSActionIdentification6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActionType <ActnTp>	[1..1]	CodeSet		806
	DataSetIdentification <DataSetId>	[0..1]	±		807

19.1.8.2.3.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Types of terminal management action performed by a point of interaction.

Datatype: "TerminalManagementAction4Code" on page 916

CodeName	Name	Definition
DCTV	Deactivate	Request to deactivate the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
DWNL	Download	Request to download the element identified inside the message exchange.
INST	Install	Request to install the element identified inside the message exchange.
RSTR	Restart	Request to restart the element identified inside the message exchange.

CodeName	Name	Definition
UPLD	Upload	Request to upload the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.
BIND	Bind	Request sent to a POI to bind with a server.
RBND	Rebind	Request sent to a POI to rebind with a server.
UBND	Unbind	Request sent to a POI to unbind with a server.
ACTV	Activate	Request to activate the element identified inside the message exchange.

19.1.8.2.3.2 DataSetIdentification <DataSetId>

Presence: [0..1]

Definition: Data set on which the action has been performed.

DataSetIdentification <DataSetId> contains the following elements (see "[DataSetIdentification8](#)" on page 646 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		646
	Type <Tp>	[1..1]	CodeSet		646
	Version <Vrsn>	[0..1]	Text		647
	CreationDateTime <CreDtTm>	[0..1]	DateTime		647

19.1.8.2.4 AdditionalErrorInformation <AddtlErrInf>

Presence: [0..1]

Definition: Additional information related to a failure.

Datatype: "[Max70Text](#)" on page 930

19.1.8.2.5 TerminalManagerIdentification <TermnlMgrId>

Presence: [0..1]

Definition: Identification of the terminal management system (TMS) used with the action.

Datatype: "[Max35Text](#)" on page 929

19.1.9 Network Access

19.1.9.1 NetworkParameters7

Definition: Parameters to communicate with a host.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Address <Adr>	[1..*]			808
	NetworkType <NtwkTp>	[1..1]	CodeSet		808
	AddressValue <AdrVal>	[1..1]	Text		808
	UserName <UsrNm>	[0..1]	Text		808
	AccessCode <AccsCd>	[0..1]	Binary		809
	ServerCertificate <SvrCert>	[0..*]	Binary		809
	ServerCertificateIdentifier <SvrCertIdr>	[0..*]	Binary		809
	ClientCertificate <ClntCert>	[0..*]	Binary		809
	SecurityProfile <SctyPrfl>	[0..1]	Text		809

19.1.9.1.1 Address <Adr>

Presence: [1..*]

Definition: Network addresses of the host.

Address <Adr> contains the following **NetworkParameters9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NetworkType <NtwkTp>	[1..1]	CodeSet		808
	AddressValue <AdrVal>	[1..1]	Text		808

19.1.9.1.1.1 NetworkType <NtwkTp>

Presence: [1..1]

Definition: Type of communication network.

Datatype: "NetworkType1Code" on page 894

CodeName	Name	Definition
IPNW	InternetProtocol	Protocol of an IP network.
PSTN	PublicTelephone	Protocol of a Public Switched Telephone Network (PSTN).

19.1.9.1.1.2 AddressValue <AdrVal>

Presence: [1..1]

Definition: Value of the address. The value of an internet protocol address contains the IP address or the DNS (Domain Name Server) address, followed by the character ':' and the port number if the default port is not used. The value of a public telephone address contains the phone number with possible prefix and extensions.

Datatype: "Max500Text" on page 930

19.1.9.1.2 UserName <UsrNm>

Presence: [0..1]

Definition: User name identifying the client.

Datatype: "Max35Text" on page 929

19.1.9.1.3 AccessCode <AccsCd>

Presence: [0..1]

Definition: Password authenticating the client.

Datatype: "Max35Binary" on page 862

19.1.9.1.4 ServerCertificate <SvrCert>

Presence: [0..*]

Definition: X.509 Certificate required to authenticate the server.

Datatype: "Max10KBinary" on page 861

19.1.9.1.5 ServerCertificateIdentifier <SvrCertIdr>

Presence: [0..*]

Definition: Identification of the X.509 Certificates required to authenticate the server, for instance a digest of the certificate.

Datatype: "Max140Binary" on page 861

19.1.9.1.6 ClientCertificate <ClntCert>

Presence: [0..*]

Definition: X.509 Certificate required to authenticate the client.

Datatype: "Max10KBinary" on page 861

19.1.9.1.7 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the set of security elements to access the host.

Datatype: "Max35Text" on page 929

19.1.10 Postal Address

19.1.10.1 PostalAddress22

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		810
	Department <Dept>	[0..1]	Text		810
	SubDepartment <SubDept>	[0..1]	Text		810
	AddressLine <AdrLine>	[0..2]	Text		810
	StreetName <StrtNm>	[0..1]	Text		811
	BuildingNumber <BldgNb>	[0..1]	Text		811
	PostCode <PstCd>	[0..1]	Text		811
	TownName <TwnNm>	[0..1]	Text		811
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		811
	CountryCode <CtryCd>	[0..1]	Text		811

19.1.10.1.1 AddressType <AdrTp>

Presence: [0..1]

Definition: Identifies the nature of the postal address.

Datatype: "AddressType2Code" on page 864

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.

19.1.10.1.2 Department <Dept>

Presence: [0..1]

Definition: Identification of a division of a large organisation or building.

Datatype: "Max70Text" on page 930

19.1.10.1.3 SubDepartment <SubDept>

Presence: [0..1]

Definition: Identification of a sub-division of a large organisation or building.

Datatype: "Max70Text" on page 930

19.1.10.1.4 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, presented in free format text.

Datatype: "Max70Text" on page 930

19.1.10.1.5 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 930

19.1.10.1.6 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 928

19.1.10.1.7 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 928

19.1.10.1.8 TownName <TwnNm>

Presence: [0..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max70Text" on page 930

19.1.10.1.9 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country such as state, region, county.

Datatype: "Max35Text" on page 929

19.1.10.1.10 CountryCode <CtryCd>

Presence: [0..1]

Definition: Nation with its own government.

Datatype: "Min2Max3AlphaText" on page 931

19.1.11 Secure Element

19.1.11.1 DigestedData5

Definition: Digest computed on the identified data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		812
	DigestAlgorithm <DgstAlgo>	[1..1]	±		812
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		812
	Digest <Dgst>	[1..1]	Binary		812

19.1.11.1.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.1.2 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

DigestAlgorithm <DgstAlgo> contains the following elements (see "AlgorithmIdentification21" on page 841 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		841

19.1.11.1.3 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data on which the digest is computed.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see "EncapsulatedContent3" on page 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		799
	Content <Cntt>	[0..1]	Binary		799

19.1.11.1.4 Digest <Dgst>

Presence: [1..1]

Definition: Result of data-digesting process.

Datatype: "Max140Binary" on page 861

19.1.11.2 CryptographicKey14

Definition: Cryptographic Key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		813
	AdditionalIdentification <AddtlId>	[0..1]	Binary		813
	Name <Nm>	[0..1]	Text		813
	SecurityProfile <SctyPrfl>	[0..1]	Text		814
	ItemNumber <ItmNb>	[0..1]	Text		814
	Version <Vrsn>	[1..1]	Text		814
	Type <Tp>	[0..1]	CodeSet		814
	Function <Fctn>	[0..*]	CodeSet		815
	ActivationDate <ActvtnDt>	[0..1]	DateTime		815
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		815
	KeyValue <KeyVal>	[0..1]	±		816
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		816
	AdditionalManagementInformation <AddtlMgmtInf>	[0..*]			816
	Name <Nm>	[1..1]	Text		816
	Value <Val>	[0..1]	Text		816

19.1.11.2.1 Identification <Id>

Presence: [1..1]

Definition: Name of the cryptographic key.

Datatype: "Max140Text" on page 927

19.1.11.2.2 AdditionalIdentification <AddtlId>

Presence: [0..1]

Definition: Additional identification of the key.

Usage

For derived unique key per transaction (DUKPT) keys, the key serial number (KSN) with the 21 bits of the transaction counter set to zero.

Datatype: "Max35Binary" on page 862

19.1.11.2.3 Name <Nm>

Presence: [0..1]

Definition: Name of the Cryptographic Element.

Datatype: "Max140Text" on page 927

19.1.11.2.4 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the set of security elements to which this element belongs.

Datatype: "Max35Text" on page 929

19.1.11.2.5 ItemNumber <itmNb>

Presence: [0..1]

Definition: Hierarchical identification of a key inside all the key system. It is composed of all item numbers of the upper level components, separated by the '.' character, ended by the item number of the current component.

Datatype: "Max35Text" on page 929

19.1.11.2.6 Version <Vrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max256Text" on page 928

19.1.11.2.7 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 884

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).

19.1.11.2.8 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 891

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.

19.1.11.2.9 ActivationDate <Actvtndt>

Presence: [0..1]

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

Datatype: "ISODateTime" on page 923

19.1.11.2.10 DeactivationDate <Deactvtndt>

Presence: [0..1]

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

Datatype: "ISODateTime" on page 923

19.1.11.2.11 KeyValue <KeyVal>

Presence: [0..1]

Definition: Encrypted cryptographic key.

KeyValue <KeyVal> contains the following elements (see "[ContentInformationType23](#)" on page 817 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

19.1.11.2.12 KeyCheckValue <KeyChckVal>

Presence: [0..1]

Definition: Value for checking a cryptographic key security parameter.

Datatype: "[Max35Binary](#)" on page 862

19.1.11.2.13 AdditionalManagementInformation <AddtlMgmtInf>

Presence: [0..*]

Definition: Additional Information needed by the receiver to securely process the management of the security element.

AdditionalManagementInformation <AddtlMgmtInf> contains the following **GenericInformation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		816
	Value <Val>	[0..1]	Text		816

19.1.11.2.13.1 Name <Nm>

Presence: [1..1]

Definition: Name of the generic information to exchange.

Datatype: "[Max70Text](#)" on page 930

19.1.11.2.13.2 Value <Val>

Presence: [0..1]

Definition: Value of the generic information to exchange.

Datatype: "[Max140Text](#)" on page 927

19.1.11.3 ContentInformationType23

Definition: General cryptographic message syntax (CMS) containing protected data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		817
	EnvelopedData <EnvlpdData>	[0..1]	±		817
	AuthenticatedData <AuthntcdData>	[0..1]	±		818
	SignedData <SgndData>	[0..1]	±		818
	DigestedData <DgstdData>	[0..1]	±		819

19.1.11.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 883

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).

19.1.11.3.2 EnvelopedData <EnvlpdData>

Presence: [0..1]

Definition: Data protection by encryption, with a session key.

EnvelopedData <EnvlpdData> contains the following elements (see "EnvelopedData7" on page 820 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		820
	OriginatorInformation <OrgtrlInf>	[0..1]			820
	Certificate <Cert>	[0..*]	Binary		820
	Recipient <Rcpt>	[1..*]	±		820
	EncryptedContent <NcrptdCntt>	[0..1]			821
	ContentType <CnttTp>	[1..1]	CodeSet		821
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[0..1]	±		822
	EncryptedData <NcrptdData>	[1..1]	Binary		822

19.1.11.3.3 AuthenticatedData <AuthntcdData>

Presence: [0..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData6" on page 829 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		829
	Recipient <Rcpt>	[1..*]	±		829
	MACAlgorithm <MACAlgo>	[1..1]	±		830
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		831
	MAC <MAC>	[1..1]	Binary		831

19.1.11.3.4 SignedData <SgndData>

Presence: [0..1]

Definition: Data protected by a digital signatures.

SignedData <SgndData> contains the following elements (see "SignedData5" on page 850 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		850
	DigestAlgorithm <DgstAlgo>	[0..*]	±		851
	EncapsulatedContent <NcpsltdCntt>	[0..1]	±		851
	Certificate <Cert>	[0..*]	Binary		851
	Signer <Sgnr>	[0..*]			851
	Version <Vrsn>	[0..1]	Quantity		852
	SignerIdentification <SgnrId>	[0..1]			852
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			853
	Issuer <Issr>	[1..1]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854
Or}	KeyIdentifier <Keyldr>	[1..1]	±		854
	DigestAlgorithm <DgstAlgo>	[1..1]	±		855
	SignedAttributes <SgndAttrbts>	[0..*]			855
	Name <Nm>	[1..1]	Text		855
	Value <Val>	[0..1]	Text		855
	SignatureAlgorithm <SgntrAlgo>	[1..1]	±		855
	Signature <Sgntr>	[1..1]	Binary		856

19.1.11.3.5 DigestedData <DgstdData>

Presence: [0..1]

Definition: Data protected by a digest.

DigestedData <DgstdData> contains the following elements (see "DigestedData5" on page 811 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		812
	DigestAlgorithm <DgstAlgo>	[1..1]	±		812
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		812
	Digest <Dgst>	[1..1]	Binary		812

19.1.11.4 EnvelopedData7

Definition: Encrypted data with encryption key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		820
	OriginatorInformation <OrgtrInf>	[0..1]			820
	Certificate <Cert>	[0..*]	Binary		820
	Recipient <Rcpt>	[1..*]	±		820
	EncryptedContent <NcrptdCntt>	[0..1]			821
	ContentType <CnttTp>	[1..1]	CodeSet		821
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[0..1]	±		822
	EncryptedData <NcrptdData>	[1..1]	Binary		822

19.1.11.4.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.4.2 OriginatorInformation <OrgtrInf>

Presence: [0..1]

Definition: Provides certificates of the originator.

OriginatorInformation <OrgtrInf> contains the following **OriginatorInformation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Certificate <Cert>	[0..*]	Binary		820

19.1.11.4.2.1 Certificate <Cert>

Presence: [0..*]

Definition: It may contain originator certificates associated with several different key management algorithms.

Datatype: "Max5000Binary" on page 862

19.1.11.4.3 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 "Recipient8Choice" on page 822 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			823
	Version <Vrsn>	[0..1]	Quantity		824
	RecipientIdentification <RcptId>	[1..1]			824
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			824
	Issuer <Issr>	[1..1]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		826
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		826
	EncryptedKey <NcrptdKey>	[1..1]	Binary		827
Or	KEK <KEK>	[1..1]			827
	Version <Vrsn>	[0..1]	Quantity		827
	KEKIdentification <KEKId>	[1..1]	±		827
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		828
	EncryptedKey <NcrptdKey>	[1..1]	Binary		828
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		828

19.1.11.4.4 EncryptedContent <NcrptdCntt>

Presence: [0..1]

Definition: Data protection by encryption (digital envelope), with an encryption key.

EncryptedContent <NcrptdCntt> contains the following **EncryptedContent6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		821
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[0..1]	±		822
	EncryptedData <NcrptdData>	[1..1]	Binary		822

19.1.11.4.4.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been encrypted.

Datatype: "ContentType2Code" on page 883

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).

19.1.11.4.4.2 ContentEncryptionAlgorithm <CnttNcrptnAlgo>

Presence: [0..1]

Definition: Algorithm used to encrypt the data.

ContentEncryptionAlgorithm <CnttNcrptnAlgo> contains the following elements (see "AlgorithmIdentification29" on page 832 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		832
	Parameter <Param>	[0..1]			834
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		835
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		835
	BytePadding <BPddg>	[0..1]	CodeSet		835

19.1.11.4.4.3 EncryptedData <NcrptdData>

Presence: [1..1]

Definition: Encrypted data, result of the content encryption.

Datatype: "Max100KBinary" on page 861

19.1.11.5 Recipient8Choice

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]			823
	Version <Vrsn>	[0..1]	Quantity		824
	RecipientIdentification <RcptId>	[1..1]			824
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			824
	Issuer <Issr>	[1..1]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		826
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		826
	EncryptedKey <NcrptdKey>	[1..1]	Binary		827
Or	KEK <KEK>	[1..1]			827
	Version <Vrsn>	[0..1]	Quantity		827
	KEKIdentification <KEKId>	[1..1]	±		827
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		828
	EncryptedKey <NcrptdKey>	[1..1]	Binary		828
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		828

19.1.11.5.1 KeyTransport <KeyTrnsprt>

Presence: [1..1]

Definition: Encryption key using previously distributed asymmetric public key.

KeyTransport <KeyTrnsprt> contains the following **KeyTransport5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		824
	RecipientIdentification <Rcptld>	[1..1]			824
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			824
	Issuer <Issr>	[1..1]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826
Or}	KeyIdentifier <Keyldr>	[1..1]	±		826
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		826
	EncryptedKey <NcrptdKey>	[1..1]	Binary		827

19.1.11.5.1.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.5.1.2 RecipientIdentification <Rcptld>

Presence: [1..1]

Definition: Identification of a cryptographic asymmetric key for the recipient.

RecipientIdentification <Rcptld> contains one of the following **Recipient5Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			824
	Issuer <Issr>	[1..1]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826
Or}	KeyIdentifier <Keyldr>	[1..1]	±		826

19.1.11.5.1.2.1 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]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826

19.1.11.5.1.2.1.1 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..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826

19.1.11.5.1.2.1.1.1 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		825
	AttributeValue <AttrVal>	[1..1]	Text		826

19.1.11.5.1.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 872

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).

CodeName	Name	Definition
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).

19.1.11.5.1.2.1.1.2 AttributeValue <AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 927

19.1.11.5.1.2.1.2 SerialNumber <SrINb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max35Binary" on page 862

19.1.11.5.1.2.2 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 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <Keyld>	[1..1]	Text		798
	KeyVersion <KeyVrsn>	[1..1]	Text		798
	SequenceNumber <SeqNb>	[0..1]	Quantity		798
	DerivationIdentification <DerivtnId>	[0..1]	Binary		798

19.1.11.5.1.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see "AlgorithmIdentification19" on page 846 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		846
	Parameter <Param>	[0..1]			847
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		847
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		847
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]	±		848

19.1.11.5.1.4 EncryptedKey <NcrptdKey>

Presence: [1..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max5000Binary" on page 862

19.1.11.5.2 KEK <KEK>

Presence: [1..1]

Definition: Key encryption key using previously distributed symmetric key.

KEK <KEK> contains the following **KEK7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		827
	KEKIdentification <KEKId>	[1..1]	±		827
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		828
	EncryptedKey <NcrptdKey>	[1..1]	Binary		828

19.1.11.5.2.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.5.2.2 KEKIdentification <KEKId>

Presence: [1..1]

Definition: Identification of the key encryption key (KEK).

KEKIdentification <KEKId> contains the following elements (see "[KEKIdentifier2](#)" on page 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		798
	KeyVersion <KeyVrsn>	[1..1]	Text		798
	SequenceNumber <SeqNb>	[0..1]	Quantity		798
	DerivationIdentification <DerivtnId>	[0..1]	Binary		798

19.1.11.5.2.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see "[AlgorithmIdentification29](#)" on page 832 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		832
	Parameter <Param>	[0..1]			834
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		835
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		835
	BytePadding <BPddg>	[0..1]	CodeSet		835

19.1.11.5.2.4 EncryptedKey <NcrptdKey>

Presence: [1..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "[Max500Binary](#)" on page 862

19.1.11.5.3 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 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		798
	KeyVersion <KeyVrsn>	[1..1]	Text		798
	SequenceNumber <SeqNb>	[0..1]	Quantity		798
	DerivationIdentification <DerivtnId>	[0..1]	Binary		798

19.1.11.6 AuthenticatedData6

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		829
	Recipient <Rcpt>	[1..*]	±		829
	MACAlgorithm <MACAlgo>	[1..1]	±		830
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		831
	MAC <MAC>	[1..1]	Binary		831

19.1.11.6.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.6.2 Recipient <Rcpt>

Presence: [1..*]

Definition: Session key or protection key identification used by the recipient.

Recipient <Rcpt> contains one of the following elements (see "Recipient8Choice" on page 822 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			823
	Version <Vrsn>	[0..1]	Quantity		824
	RecipientIdentification <RcptId>	[1..1]			824
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			824
	Issuer <Issr>	[1..1]			825
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			825
	AttributeType <AttrTp>	[1..1]	CodeSet		825
	AttributeValue <AttrVal>	[1..1]	Text		826
	SerialNumber <SrlNb>	[1..1]	Binary		826
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		826
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		826
	EncryptedKey <NcrptdKey>	[1..1]	Binary		827
Or	KEK <KEK>	[1..1]			827
	Version <Vrsn>	[0..1]	Quantity		827
	KEKIdentification <KEKId>	[1..1]	±		827
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]	±		828
	EncryptedKey <NcrptdKey>	[1..1]	Binary		828
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		828

19.1.11.6.3 MACAlgorithm <MACAlgo>

Presence: [1..1]

Definition: Algorithm to compute message authentication code (MAC).

MACAlgorithm <MACAlgo> contains the following elements (see "AlgorithmIdentification22" on page 837 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		838
	Parameter <Param>	[0..1]			840
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		840
	BytePadding <BPddg>	[0..1]	CodeSet		840

19.1.11.6.4 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data to authenticate.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see "[EncapsulatedContent3](#)" on page 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		799
	Content <Cntt>	[0..1]	Binary		799

19.1.11.6.5 MAC <MAC>

Presence: [1..1]

Definition: Message authentication code value.

Datatype: "[Max140Binary](#)" on page 861

19.1.11.7 ContentInformationType22

Definition: General cryptographic message syntax (CMS) containing encrypted data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		831
	EnvelopedData <EnvlpdData>	[1..1]	±		832

19.1.11.7.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "[ContentType2Code](#)" on page 883

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).

19.1.11.7.2 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 "EnvelopedData7" on page 820 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		820
	OriginatorInformation <OrgtrInf>	[0..1]			820
	Certificate <Cert>	[0..*]	Binary		820
	Recipient <Rcpt>	[1..*]	±		820
	EncryptedContent <NcrptdCntt>	[0..1]			821
	ContentType <CnttTp>	[1..1]	CodeSet		821
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[0..1]	±		822
	EncryptedData <NcrptdData>	[1..1]	Binary		822

19.1.11.8 AlgorithmIdentification29

Definition: Cryptographic algorithm and parameters for the protection of the transported key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		832
	Parameter <Param>	[0..1]			834
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		835
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		835
	BytePadding <BPddg>	[0..1]	CodeSet		835

19.1.11.8.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the algorithm.

Datatype: "Algorithm24Code" on page 869

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

CodeName	Name	Definition
		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).
UKA2	UKPTwithAES192	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 192 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).
DA12	AESDUKPT128ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A, With key length of 128 bits.
DA19	AESDUKPT192ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A. With key length of 192 bits.
DA25	AESDUKPT256ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A. With key length of 256 bits.
N108	Nist800-108KeyDerivation	Key Derivation according to the Special Publication from the NIST entitled 800-108.
EA5R	AES256CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9R	AES192CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing

CodeName	Name	Definition
		Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA2R	AES128CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DR	DES112CTR	Triple DES (Data Encryption Standard) CTR (Counter) encryption with double length key (112 Bit) as defined in FIPS SP 800-38a.
E36C	DES168CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with triple length key (168 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
E36R	DES168CTR	Triple DES (Data Encryption Standard) CTR (Counter) encryption with triple length key (168 Bit) as defined in FIPS SP 800-38a.
SD5C	SDE056CBC	The DEPRECATED Simple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with simple length key (56 Bit) as defined in FIPS PUB 81 - (ASN.1 Object Identifier: des-cbc).
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).
UKA3	UKPTwithAES256	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 256 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

19.1.11.8.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the encryption algorithm.

Parameter <Param> contains the following **Parameter12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		835
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		835
	BytePadding <BPddg>	[0..1]	CodeSet		835

19.1.11.8.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat2Code" on page 887

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.
I238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

19.1.11.8.2.2 InitialisationVector <InitlstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 862

19.1.11.8.2.3 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 876

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.

19.1.11.9 ContentInformationType21

Definition: General cryptographic message syntax (CMS) containing data. protected by a MAC or a digital signature.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		836
	AuthenticatedData <AuthntcdData>	[0..1]	±		836
	SignedData <SgndData>	[0..1]	±		837

19.1.11.9.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 883

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).

19.1.11.9.2 AuthenticatedData <AuthntcdData>

Presence: [0..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData6" on page 829 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		829
	Recipient <Rcpt>	[1..*]	±		829
	MACAlgorithm <MACAlgo>	[1..1]	±		830
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		831
	MAC <MAC>	[1..1]	Binary		831

19.1.11.9.3 SignedData <SgndData>

Presence: [0..1]

Definition: Data protected by a digital signatures.

SignedData <SgndData> contains the following elements (see "SignedData5" on page 850 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		850
	DigestAlgorithm <DgstAlgo>	[0..*]	±		851
	EncapsulatedContent <NcpsltdCntt>	[0..1]	±		851
	Certificate <Cert>	[0..*]	Binary		851
	Signer <Sgnr>	[0..*]			851
	Version <Vrsn>	[0..1]	Quantity		852
	SignerIdentification <SgnrId>	[0..1]			852
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			853
	Issuer <Issr>	[1..1]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854
Or}	KeyIdentifier <Keyldr>	[1..1]	±		854
	DigestAlgorithm <DgstAlgo>	[1..1]	±		855
	SignedAttributes <SgndAttrbts>	[0..*]			855
	Name <Nm>	[1..1]	Text		855
	Value <Val>	[0..1]	Text		855
	SignatureAlgorithm <SgntrAlgo>	[1..1]	±		855
	Signature <Sgntr>	[1..1]	Binary		856

19.1.11.10 AlgorithmIdentification22

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		838
	Parameter <Param>	[0..1]			840
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		840
	BytePadding <BPddg>	[0..1]	CodeSet		840

19.1.11.10.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the MAC algorithm.

Datatype: "Algorithm17Code" on page 866

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.
MCC1	RetailSHA1MAC	The DEPRECATED 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

CodeName	Name	Definition
		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.
CMA2	SHA256CMACWithAES256	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-256 digest of the message.
CM31	SHA3-256CMACWithAES128	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 SHA3-256 digest of the message.
CM32	SHA3-384CMACWithAES192	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 SHA3-384 digest of the message.
CM33	SHA3-512CMACWithAES256	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 SHA3-512 digest of the message.
MCS3	SHA3-256-3DESMAC	3DES CBC-MAC with SHA3-256 (SecureHash standard) and ISO/IEC9797-1 method 2 padding.
CCA1	CMACAES128	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and

CodeName	Name	Definition
		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).
CCA2	CMACAES192	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).
CCA3	CMACAES256	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).

19.1.11.10.2 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 <InitIstnVctr>	[0..1]	Binary		840
	BytePadding <BPddg>	[0..1]	CodeSet		840

19.1.11.10.2.1 InitialisationVector <InitIstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 862

19.1.11.10.2.2 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 876

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.

19.1.11.11 AlgorithmIdentification21

Definition: Cryptographic algorithm and parameters of digests.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		841

19.1.11.11.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 865

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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).
SH32	SHA3-256	Message digest algorithm SHA3-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-256).

CodeName	Name	Definition
SH33	SHA3-384	Message digest algorithm SHA3-384 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-384).
SH35	SHA3-512	Message digest algorithm SHA3-512 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-512).
SHK1	SHAKE128	Message digest algorithm SHAKE-128 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake128).
SHK2	SHAKE256	Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

19.1.11.12 AlgorithmIdentification20

Definition: Identification of a cryptographic algorithm and parameters for digital signatures.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		842
	Parameter <Param>	[0..1]			843
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		844
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			845
	Algorithm <Algo>	[1..1]	CodeSet		845
	Parameter <Param>	[0..1]			845
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		845
	SaltLength <SaltLngth>	[1..1]	Quantity		846
	TrailerField <TrlrFld>	[0..1]	Quantity		846

19.1.11.12.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the algorithm.

Datatype: "Algorithm19Code" on page 868

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	The DEPRECATED 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

CodeName	Name	Definition
		#1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).
ECC5	EllipticCryptographicCurveFifthAlgoritihm	Fifth Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC1	EllipticCryptographicCurveFirstAlgorithm	First Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC4	EllipticCryptographicCurveFourthAlgorithm	Fourth Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC2	EllipticCryptographicCurveSecondAlgorithm	Second Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC3	EllipticCryptographicCurveThirdAlgorithm	Third Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ERS3	SHA3-256WithRSA	Signature algorithms with RSA, using SHA3-256 digest algorithm. (ASN.1 Object Identifier: id-rsassa-pkcs1-v1-5-with-sha3-256).
ECP2	SignatureWithEllipticCurveP-256	Elliptic Curve Signature with the Curve P-256 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).
ECP3	SignatureWithEllipticCurveP-384	Elliptic Curve Signature with the Curve P-384 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).
ECP5	SignatureWithEllipticCurveP-512	Elliptic Curve Signature with the Curve P-512 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).

19.1.11.12.2 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 **Parameter11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		844
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			845
	Algorithm <Algo>	[1..1]	CodeSet		845
	Parameter <Param>	[0..1]			845
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		845
	SaltLength <SaltLngth>	[1..1]	Quantity		846
	TrailerField <TrlrFld>	[0..1]	Quantity		846

19.1.11.12.2.1 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 865

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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).
SH32	SHA3-256	Message digest algorithm SHA3-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-256).
SH33	SHA3-384	Message digest algorithm SHA3-384 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-384).
SH35	SHA3-512	Message digest algorithm SHA3-512 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-512).
SHK1	SHAKE128	Message digest algorithm SHAKE-128 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake128).

CodeName	Name	Definition
SHK2	SHAKE256	Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

19.1.11.12.2.2 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		845
	Parameter <Param>	[0..1]			845
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		845

19.1.11.12.2.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 871

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).

19.1.11.12.2.2.2 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		845

19.1.11.12.2.2.2.1 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm11Code" on page 864

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).

CodeName	Name	Definition
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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

19.1.11.12.2.3 SaltLength <SaltLngth>

Presence: [1..1]

Definition: Length of the salt to include in the signature.

Datatype: "Number" on page 926

19.1.11.12.2.4 TrailerField <TrlrFld>

Presence: [0..1]

Definition: Trailer field number.

Datatype: "Number" on page 926

19.1.11.13 AlgorithmIdentification19

Definition: Cryptographic algorithms and parameters for the protection of transported keys by an asymmetric key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		846
	Parameter <Param>	[0..1]			847
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		847
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		847
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]	±		848

19.1.11.13.1 Algorithm <Algo>

Presence: [1..1]

Definition: Asymmetric encryption algorithm of a transport key.

Datatype: "Algorithm7Code" on page 871

CodeName	Name	Definition
ERSA	RSASignature	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).

CodeName	Name	Definition
RSAO	RSAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

19.1.11.13.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters of the encryption algorithm.

Parameter <Param> contains the following **Parameter10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFmt>	[0..1]	CodeSet		847
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		847
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]	±		848

19.1.11.13.2.1 EncryptionFormat <NcrptnFmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat2Code" on page 887

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.
I238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

19.1.11.13.2.2 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 865

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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS

CodeName	Name	Definition
		180-1 - (ASN.1 Object Identifier: id-sha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).
SH32	SHA3-256	Message digest algorithm SHA3-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-256).
SH33	SHA3-384	Message digest algorithm SHA3-384 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-384).
SH35	SHA3-512	Message digest algorithm SHA3-512 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-512).
SHK1	SHAKE128	Message digest algorithm SHAKE-128 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake128).
SHK2	SHAKE256	Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

19.1.11.13.2.3 MaskGeneratorAlgorithm <MskGnrtrAlgo>

Presence: [0..1]

Definition: Mask generator function cryptographic algorithm and parameters.

MaskGeneratorAlgorithm <MskGnrtrAlgo> contains the following elements (see "AlgorithmIdentification18" on page 848 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		848
	Parameter <Param>	[0..1]			849
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		849

19.1.11.14 AlgorithmIdentification18

Definition: Mask generator function cryptographic algorithm and parameters.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		848
	Parameter <Param>	[0..1]			849
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		849

19.1.11.14.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 871

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).

19.1.11.14.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the mask generator function cryptographic algorithm.

Parameter <Param> contains the following **Parameter9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		849

19.1.11.14.2.1 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm16Code" on page 865

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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).
SH32	SHA3-256	Message digest algorithm SHA3-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-256).
SH33	SHA3-384	Message digest algorithm SHA3-384 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-384).
SH35	SHA3-512	Message digest algorithm SHA3-512 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-512).

CodeName	Name	Definition
SHK1	SHAKE128	Message digest algorithm SHAKE-128 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake128).
SHK2	SHAKE256	Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

19.1.11.15 SignedData5

Definition: Digital signatures of data from one or several signers.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		850
	DigestAlgorithm <DgstAlgo>	[0..*]	±		851
	EncapsulatedContent <NcpsltdCntt>	[0..1]	±		851
	Certificate <Cert>	[0..*]	Binary		851
	Signer <Sgnr>	[0..*]			851
	Version <Vrsn>	[0..1]	Quantity		852
	SignerIdentification <SgnrId>	[0..1]			852
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			853
	Issuer <Issr>	[1..1]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854
Or}	KeyIdentifier <Keyldr>	[1..1]	±		854
	DigestAlgorithm <DgstAlgo>	[1..1]	±		855
	SignedAttributes <SgndAttrbts>	[0..*]			855
	Name <Nm>	[1..1]	Text		855
	Value <Val>	[0..1]	Text		855
	SignatureAlgorithm <SgntrAlgo>	[1..1]	±		855
	Signature <Sgntr>	[1..1]	Binary		856

19.1.11.15.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 926

19.1.11.15.2 DigestAlgorithm <DgstAlgo>

Presence: [0..*]

Definition: Identification of digest algorithm applied before signature.

DigestAlgorithm <DgstAlgo> contains the following elements (see "[AlgorithmIdentification21](#)" on page 841 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		841

19.1.11.15.3 EncapsulatedContent <NcpsltdCntt>

Presence: [0..1]

Definition: Data to sign.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see "[EncapsulatedContent3](#)" on page 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		799
	Content <Cntt>	[0..1]	Binary		799

19.1.11.15.4 Certificate <Cert>

Presence: [0..*]

Definition: Chain of X.509 certificates.

Datatype: "[Max5000Binary](#)" on page 862

19.1.11.15.5 Signer <Sgnr>

Presence: [0..*]

Definition: Digital signature and identification of a signer.

Signer <Sgnr> contains the following **Signer4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		852
	SignerIdentification <SgnrId>	[0..1]			852
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			853
	Issuer <Issr>	[1..1]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854
Or}	KeyIdentifier <Keyldr>	[1..1]	±		854
	DigestAlgorithm <DgstAlgo>	[1..1]	±		855
	SignedAttributes <SgndAttrbts>	[0..*]			855
	Name <Nm>	[1..1]	Text		855
	Value <Val>	[0..1]	Text		855
	SignatureAlgorithm <SgntrAlgo>	[1..1]	±		855
	Signature <Sgntr>	[1..1]	Binary		856

19.1.11.15.5.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the Cryptographic Message Syntax (CMS) data structure.

Datatype: "Number" on page 926

19.1.11.15.5.2 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 <IssrAndSrlNb>	[1..1]			853
	Issuer <Issr>	[1..1]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		854

19.1.11.15.5.2.1 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]			853
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854
	SerialNumber <SrlNb>	[1..1]	Binary		854

19.1.11.15.5.2.1.1 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..*]			853
	AttributeType <AttrTp>	[1..1]	CodeSet		854
	AttributeValue <AttrVal>	[1..1]	Text		854

19.1.11.15.5.2.1.1.1 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		854
	AttributeValue <AttrVal>	[1..1]	Text		854

19.1.11.15.5.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 872

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).

19.1.11.15.5.2.1.1.1.2 AttributeValue <AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 927

19.1.11.15.5.2.1.2 SerialNumber <SrINb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max35Binary" on page 862

19.1.11.15.5.2.2 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 798 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		798
	KeyVersion <KeyVrsn>	[1..1]	Text		798
	SequenceNumber <SeqNb>	[0..1]	Quantity		798
	DerivationIdentification <DerivtnId>	[0..1]	Binary		798

19.1.11.15.5.3 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of a digest algorithm to apply before signature.

DigestAlgorithm <DgstAlgo> contains the following elements (see "[AlgorithmIdentification21](#)" on page 841 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		841

19.1.11.15.5.4 SignedAttributes <SgndAttrbts>

Presence: [0..*]

Definition: Collection of attributes that are signed.

SignedAttributes <SgndAttrbts> contains the following **GenericInformation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		855
	Value <Val>	[0..1]	Text		855

19.1.11.15.5.4.1 Name <Nm>

Presence: [1..1]

Definition: Name of the generic information to exchange.

Datatype: "[Max70Text](#)" on page 930

19.1.11.15.5.4.2 Value <Val>

Presence: [0..1]

Definition: Value of the generic information to exchange.

Datatype: "[Max140Text](#)" on page 927

19.1.11.15.5.5 SignatureAlgorithm <SgntrAlgo>

Presence: [1..1]

Definition: Cryptographic digital signature algorithm.

SignatureAlgorithm <SgntrAlgo> contains the following elements (see "[AlgorithmIdentification20](#)" on page 842 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		842
	Parameter <Param>	[0..1]			843
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		844
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			845
	Algorithm <Algo>	[1..1]	CodeSet		845
	Parameter <Param>	[0..1]			845
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		845
	SaltLength <SaltLngth>	[1..1]	Quantity		846
	TrailerField <TrlrFld>	[0..1]	Quantity		846

19.1.11.15.5.6 Signature <Sgntr>

Presence: [1..1]

Definition: Digital signature.

Datatype: "[Max3000Binary](#)" on page 862

19.1.12 Structured Postal Address

19.1.12.1 PostalAddress2

Definition: Address of a party expressed in a formal structure, usually according to the country's postal services specifications.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	StreetName <StrtNm>	[0..1]	Text		856
	PostCodeIdentification <PstCdId>	[1..1]	Text		856
	TownName <TwnNm>	[1..1]	Text		857
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		857
	Country <Ctry>	[1..1]	CodeSet	C3	857

19.1.12.1.1 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "[Max70Text](#)" on page 930

19.1.12.1.2 PostCodeIdentification <PstCdId>

Presence: [1..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 928

19.1.12.1.3 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 929

19.1.12.1.4 CountrySubDivision <CtrySubDvsn>

Presence: [0..1]

Definition: Identifies a subdivision of a country for example, state, region, county.

Datatype: "Max35Text" on page 929

19.1.12.1.5 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 883

Constraints

- **Country**

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

19.1.13 Token

19.1.13.1 CardPaymentToken5

Definition: Payment token information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		858
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		858
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		858
	TokenCharacteristic <TknChrtc>	[0..*]	Text		858
	TokenRequestor <TknRqstr>	[0..1]			858
	ProviderIdentification <PrvdrId>	[1..1]	Text		859
	RequestorIdentification <RqstrId>	[1..1]	Text		859
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		859
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		859
	TokenAssuranceMethod <TknAssrncMtd>	[0..1]	Text		859
	TokenInitiatedIndicator <TknInittlInd>	[0..1]	Indicator		859

19.1.13.1.1 Token <Tkn>

Presence: [0..1]

Definition: Surrogate value of the PAN.

Datatype: "Min8Max28NumericText" on page 932

19.1.13.1.2 CardSequenceNumber <CardSeqNb>

Presence: [0..1]

Definition: Identify a payment token inside a set of cards with the same PAN.

Datatype: "Min2Max3NumericText" on page 931

19.1.13.1.3 TokenExpiryDate <TknXpryDt>

Presence: [0..1]

Definition: Expiration date of the payment token that is generated by and maintained in the token vault.

Datatype: "Max10Text" on page 927

19.1.13.1.4 TokenCharacteristic <TknChrtc>

Presence: [0..*]

Definition: Additional payment token information.

Datatype: "Max35Text" on page 929

19.1.13.1.5 TokenRequestor <TknRqstr>

Presence: [0..1]

Definition: Identifier of a token provider requestor.

TokenRequestor <TknRqstr> contains the following **PaymentTokenIdentifiers1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProviderIdentification <PrvdrId>	[1..1]	Text		859
	RequestorIdentification <RqstrId>	[1..1]	Text		859

19.1.13.1.5.1 ProviderIdentification <PrvdrId>

Presence: [1..1]

Definition: Identifier of the token provider.

Datatype: "Max35Text" on page 929

19.1.13.1.5.2 RequestorIdentification <RqstrId>

Presence: [1..1]

Definition: Identifier of the token requestor.

Datatype: "Max35Text" on page 929

19.1.13.1.6 TokenAssuranceLevel <TknAssrncLvl>

Presence: [0..1]

Definition: Level of confidence resulting of the identification and authentication of the cardholder performed and the entity that performed it.

Datatype: "Number" on page 926

19.1.13.1.7 TokenAssuranceData <TknAssrncData>

Presence: [0..1]

Definition: Information about the identification and verification of the cardholder.

Datatype: "Max500Binary" on page 862

19.1.13.1.8 TokenAssuranceMethod <TknAssrncMtd>

Presence: [0..1]

Definition: Value that allows a Token Service Provider to indicate the identification and verification performed representing the binding of the payment token to the underlying PAN and cardholder.

Datatype: "Max2NumericText" on page 928

19.1.13.1.9 TokenInitiatedIndicator <TknInittldInd>

Presence: [0..1]

Definition: Original transaction was initiated by Token.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 925):

- *Meaning When True:* True
- *Meaning When False:* False

19.2 Message Datatypes

19.2.1 Amount

19.2.1.1 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 884

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.

19.2.1.2 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

19.2.2 Binary

19.2.2.1 Max10000Binary

Definition: Specifies a binary string with a maximum length of 10000 binary bytes.

Type: Binary

Format

minLength	1
maxLength	10000

19.2.2.2 Max100KBinary

Definition: Binary data of 100K maximum.

Type: Binary

Format

minLength	1
maxLength	102400

19.2.2.3 Max10KBinary

Definition: Binary data of 10K maximum.

Type: Binary

Format

minLength	1
maxLength	10240

19.2.2.4 Max140Binary

Definition: Specifies a binary string with a maximum length of 140 binary bytes.

Type: Binary

Format

minLength	1
maxLength	140

19.2.2.5 Max2KBinary

Definition: Binary data of 2K maximum.

Type: Binary

Format

minLength	1
maxLength	2048

19.2.2.6 Max2MBBinary

Definition: Binary data of 2MB maximum.

Type: Binary

Format

minLength	1
maxLength	2097152

19.2.2.7 Max3000Binary

Definition: Specifies a binary string with a maximum length of 3000 binary bytes.

Type: Binary

Format

minLength	1
maxLength	3000

19.2.2.8 Max35Binary

Definition: Specifies a binary string with a maximum length of 35 binary bytes.

Type: Binary

Format

minLength	1
maxLength	35

19.2.2.9 Max5000Binary

Definition: Specifies a binary string with a maximum length of 5000 binary bytes.

Type: Binary

Format

minLength	1
maxLength	5000

19.2.2.10 Max500Binary

Definition: Specifies a binary string with a maximum length of 500 binary bytes.

Type: Binary

Format

minLength	1
maxLength	500

19.2.2.11 Min1Max256Binary

Definition: Specifies a binary string with a minimum length of 1 byte, and a maximum length of 256 bytes.

Type: Binary

Format

minLength	1
maxLength	256

19.2.2.12 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

19.2.3 CodeSet

19.2.3.1 ActionType9Code

Definition: Type of action to be performed by the point of interaction (POI).

Type: CodeSet

CodeName	Name	Definition
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
NOVR	ForbidOverride	Payment application cannot propose to the merchant an override of the payment transaction.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
PRNT	PrintMessage	Print a message.
RFRL	Referral	Referral has to be performed.
RQDT	RequestData	Request additional data through a displayed text and request confirmation by an attendant.
DCCQ	AcceptCurrencyConversion	Ask the cardholder to accept the currency conversion.
FLFW	FallForward	Fall-forward from contactless to chip card transaction required.
PINQ	PINRequest	Request Cardholder Authentication through PIN insertion.

CodeName	Name	Definition
CDCV	ConsumerDeviceCardholderVerificationMethod	Request Cardholder Authentication according to the ConsumerDeviceCardholderVerification Method.
CHDA	CardholderAuthentication	Additional authentication of cardholder required.

19.2.3.2 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.

19.2.3.3 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.

19.2.3.4 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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

19.2.3.5 Algorithm16Code

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	The DEPRECATED Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).
SH32	SHA3-256	Message digest algorithm SHA3-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-256).
SH33	SHA3-384	Message digest algorithm SHA3-384 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-384).
SH35	SHA3-512	Message digest algorithm SHA3-512 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-512).
SHK1	SHAKE128	Message digest algorithm SHAKE-128 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake128).
SHK2	SHAKE256	Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

19.2.3.6 Algorithm17Code

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).
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	The DEPRECATED 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.
CMA2	SHA256CMACWithAES256	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

CodeName	Name	Definition
		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.
CM31	SHA3-256CMACWithAES128	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 SHA3-256 digest of the message.
CM32	SHA3-384CMACWithAES192	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 SHA3-384 digest of the message.
CM33	SHA3-512CMACWithAES256	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 SHA3-512 digest of the message.
MCS3	SHA3-256-3DESMAC	3DES CBC-MAC with SHA3-256 (SecureHash standard) and ISO/IEC9797-1 method 2 padding.
CCA1	CMACAES128	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).
CCA2	CMACAES192	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

CodeName	Name	Definition
		cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
CCA3	CMACAES256	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).

19.2.3.7 Algorithm19Code

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	The DEPRECATED 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).
ECC5	EllipticCryptographicCurveFifthAlgorithh	Fifth Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC1	EllipticCryptographicCurveFirstAlgorithm	First Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC4	EllipticCryptographicCurveFourthAlgorithm	Fourth Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC2	EllipticCryptographicCurveSecondAlgorithm	Second Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ECC3	EllipticCryptographicCurveThirdAlgorithm	Third Elliptic Cryptographic Curve Algorithm identified by EMVCo Nextgen.
ERS3	SHA3-256WithRSA	Signature algorithms with RSA, using SHA3-256 digest algorithm. (ASN.1 Object Identifier: id-rsassa-pkcs1-v1-5-with-sha3-256).
ECP2	SignatureWithEllipticCurveP-256	Elliptic Curve Signature with the Curve P-256 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).

CodeName	Name	Definition
ECP3	SignatureWithEllipticCurveP-384	Elliptic Curve Signature with the Curve P-384 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).
ECP5	SignatureWithEllipticCurveP-512	Elliptic Curve Signature with the Curve P-512 as defined by the Federal Information Processing Standards (FIPS 186-4 - July, 2013 - Digital Signature Standard).

19.2.3.8 Algorithm24Code

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).
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).
UKA2	UKPTwithAES192	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 192 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 -

CodeName	Name	Definition
		November 6, 2001 - Advanced Encryption Standard).
DA12	AESDUKPT128ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A, With key length of 128 bits.
DA19	AESDUKPT192ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A. With key length of 192 bits.
DA25	AESDUKPT256ECB	AES DUKPT (Derived Unique Key Per Transaction) ECB algorithm, as specified in ANSI X9.24-3-2017 Annex A. With key length of 256 bits.
N108	Nist800-108KeyDerivation	Key Derivation according to the Special Publication from the NIST entitled 800-108.
EA5R	AES256CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9R	AES192CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA2R	AES128CTR	AES (Advanced Encryption Standard) CTR (Counter) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DR	DES112CTR	Triple DES (Data Encryption Standard) CTR (Counter) encryption with double length key (112 Bit) as defined in FIPS SP 800-38a.
E36C	DES168CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with triple length key (168 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
E36R	DES168CTR	Triple DES (Data Encryption Standard) CTR (Counter) encryption with triple length key (168 Bit) as defined in FIPS SP 800-38a.
SD5C	SDE056CBC	The DEPRECATED Simple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with simple length key (56 Bit) as defined in FIPS PUB 81 - (ASN.1 Object Identifier: des-cbc).

CodeName	Name	Definition
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).
UKA3	UKPTwithAES256	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 256 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

19.2.3.9 Algorithm7Code

Definition: Asymmetric encryption algorithm of a transport key.

Type: CodeSet

CodeName	Name	Definition
ERSA	RSASignature	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSOA	RSASignature	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSASignature).

19.2.3.10 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).

19.2.3.11 AmountUnit1Code

Definition: Unit of a amount (for loyalty or account).

Type: CodeSet

CodeName	Name	Definition
MONE	Monetary	The amount is expressed in a monetary value in a currency.
POIN	Point	The amount is expressed in point.

19.2.3.12 AttendanceContext1Code

Definition: Human attendance at the POI location during the transaction.

Type: CodeSet

CodeName	Name	Definition
ATTD	Attended	Attended payment, with an attendant.
SATT	SemiAttended	Semi-attended, including self checkout. An attendant supervises several payment, and could be called to help the cardholder.
UATT	Unattended	Unattended payment, no attendant present.

19.2.3.13 AttendanceContext2Code

Definition: Identify the method of delivery or distribution.

Type: CodeSet

CodeName	Name	Definition
ATTL	AttendantDelivery	Delivery by an attendant.
CARR	CarrierDelivery	Delivery by a carrier.
CUST	CustomerDelivery	Delivery by the customer.
FULL	FullServe	Full service for fuel distribution.
SELF	SelfServe	Self service for fuel distribution.

19.2.3.14 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).

19.2.3.15 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.

19.2.3.16 AuthenticationMethod6Code

Definition: Methods used to authenticate a person or a card.

Type: CodeSet

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
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.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
ADDB	BillingAddressVerification	Cardholder billing address verification.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.

CodeName	Name	Definition
MANU	ManualVerification	Manual verification, for example passport or drivers license.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

19.2.3.17 AuthenticationMethod8Code

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.
ADDB	BillingAddressVerification	Cardholder billing address verification.
BYPS	Bypass	Authentication bypassed by the merchant.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
MANU	ManualVerification	Manual verification, for example passport or drivers license.
MERC	MerchantAuthentication	Merchant-related authentication.
MOBL	Mobile	Customer mobile device.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
OTHR	Other	Other customer authentication.
PPSG	PaperSignature	Handwritten paper signature.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
PSWD	Password	Authentication by a password.
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

CodeName	Name	Definition
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
TOKN	TokenAuthentication	Cryptogram generated by the token requestor or a customer device to validate the authorised use of a token.
UKNW	UnknownMethod	Authentication method is performed unknown.

19.2.3.18 AuthenticationResult1Code

Definition: Specifies the result of authentication done.

Type: CodeSet

CodeName	Name	Definition
DENY	Denial	The authentication didn't succeed.
MRCH	MerchantNotEnroled	Merchant not enrolled in the authentication programme.
CARD	NonParticipation	The card does not participate in the authentication programme.
AUTH	UnableToAuthenticate	The authentication couldn't be carried out.
CRPT	WithCryptogram	Authentication succeeded with a cryptogram.
UCRP	WithoutCryptogram	Authentication succeeded without a cryptogram.

19.2.3.19 BarcodeType1Code

Definition: Type of BarCode coding.

Type: CodeSet

CodeName	Name	Definition
COQR	BarcodeEncodedAs2DQRCode	Barcode encoded according to the 2Dimensions Quick Response Code Standard.
C128	BarcodeEncodedAsCode128	Barcode encoded according to the Code 128 standard.

CodeName	Name	Definition
C025	BarcodeEncodedAsCode25	Barcode encoded according to the Code 25 standard.
C039	BarcodeEncodedAsCode39	Barcode encoded according to the Code 39 standard.
EA13	BarcodeEncodedAsEA13	Barcode encoded according to the EAN13 standard.
EAN8	BarcodeEncodedAsEAN8	Barcode encoded according to the EAN8 standard.
P417	BarcodeEncodedAsPDF417	Barcode encoded according to the PDF417 standard.
UPCA	BarcodeEncodedAsUPCA	Barcode encoded according to the UPCA standard.

19.2.3.20 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.

19.2.3.21 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.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.

CodeName	Name	Definition
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.

19.2.3.22 CardDataReading5Code

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.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CDFL	CardOnFile	Card information are stored on a file.

19.2.3.23 CardDataReading8Code

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.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CDFL	CardOnFile	Card information are stored on a file.
SICC	SynchronousIntegratedCircuitCard	Synchronous ICC - (Integrated Circuit Card) with contact.
UNKW	Unknown	Unknown card reading capability.
QRCD	QRCode	Quick response code.
OPTC	OpticalCode	Optical coded reading capabilities (e.g. barcode, QR code, etc.)

19.2.3.24 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.

19.2.3.25 CardholderVerificationCapability4Code

Definition: Cardholder verification capabilities by the terminal.

Type: CodeSet

CodeName	Name	Definition
APKI	AccountDigitalSignature	Account based digital signature.
CHDT	CardholderData	Cardholder authentication data.
MNSG	ManualSignature	Manual signature verification.
MNVR	ManualVerification	Other manual verification, for example passport or drivers license.
FBIG	OfflineBiographics	Offline biographics.
FBIO	OfflineBiometrics	Offline biometrics.
FDSG	OfflineDigitalSignature	Offline digital signature analysis.
FCPN	OfflinePINCLEAR	Offline PIN in clear (Personal Identification Number).
FEPN	OfflinePINEncrypted	Offline PIN encrypted (Personal Identification Number).
NPIN	OnLinePIN	Online PIN (Personal Identification Number).
PKIS	PKISignature	PKI (Public Key Infrastructure) based digital signature.
SCEC	SecureElectronicCommerce	Three domain secure (three domain secure authentication of the cardholder).
NBIO	OnLineBiometrics	Online biometrics.
NOVF	NoCapabilities	No cardholder verification capability.
OTHR	Other	Other cardholder verification capabilities.

19.2.3.26 CardIdentificationType1Code

Definition: Type of account identification.

Type: CodeSet

CodeName	Name	Definition
ACCT	AccountNumber	Account identification.
BARC	BarCode	Bar-code with a specific form of identification.
ISO2	ISOTrack2	ISO Track 2 including identification.
PHON	PhoneNumber	A phone number identifies the account on which the phone card is assigned.
CPAN	PrimaryAccountNumber	Standard card identification (card number).
PRIV	PrivativeNumbering	An identification set by a privative application.
UUID	UniversalUniqueIdentification	A Universal Unique Identification code is set for identification.

19.2.3.27 CardPaymentServiceType12Code

Definition: Main service provided during the card payment transaction.

Type: CodeSet

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
VALC	ValidityCheck	Card validity check.
UNLD	Unloading	Unloading non-financial account.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CIDD	CardInitiatingDirectDebit	Direct Debit initiated by Card.

19.2.3.28 CardPaymentServiceType13Code

Definition: Additional attribute of the service type.

Type: CodeSet

CodeName	Name	Definition
CRDP	CardPayment	Card payment.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
IRES	InitialReservation	Initial reservation.
DEFR	DeferredPayment	Deferred payment.
URES	UpdateReservation	Update reservation.

CodeName	Name	Definition
PRES	PaymentReservation	Payment after reservation.
RECP	RecurringPayment	Recurring payment.
INSP	Instalment	Instalment payment.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
RFND	Refund	Refund transaction.
VCAU	VoiceAuthorisation	Voice authorisation.

19.2.3.29 CardPaymentServiceType3Code

Definition: Additional attributes of the service provided by the card payment transaction.

Type: CodeSet

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

19.2.3.30 CardPaymentServiceType5Code

Definition: Main service provided during the card payment transaction.

Type: CodeSet

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.

CodeName	Name	Definition
PINC	PINChange	PIN (Personal Identification Number) change.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
VALC	ValidityCheck	Card validity check.
UNLD	Unloading	Unloading non-financial account.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.

19.2.3.31 CardPaymentServiceType9Code

Definition: Service provided by the card payment transaction, in addition to the main service.

Type: CodeSet

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
VCAU	VoiceAuthorisation	Voice authorisation.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
CSHB	CashBack	Card payment with cash-back.
INST	Instant	Instant transaction.
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.

19.2.3.32 CardProductType1Code

Definition: Type of card product.

Type: CodeSet

CodeName	Name	Definition
COMM	CommercialCard	Cards issued as a means of business expenditure, for instance business card or corporate card. The user could be a company, an individual for business expenses or a self employed for business purposes.
CONS	ConsumerCard	Cards issued as a means of personal expenditure. The user is always an individual.

19.2.3.33 CheckType1Code

Definition: Type of bank check.

Type: CodeSet

CodeName	Name	Definition
BANK	BankCheck	The check is guaranteed by a bank.
BUSI	BusinessCheck	The check belongs to a Company or a professional entity.
GOVC	GovernmentCheck	Check issued by Government.
PAYR	PayrollCheck	Check issued by a company for the employees.
PERS	PersonalCheck	The check belongs to an individual.

19.2.3.34 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).

19.2.3.35 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).

19.2.3.36 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).

19.2.3.37 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.

19.2.3.38 CurrencyConversionResponse3Code

Definition: Result of a requested currency conversion.

Type: CodeSet

CodeName	Name	Definition
ODCC	Allowed	Dynamic currency conversion may be offered to the cardholder.
DCCA	Assumed	Transaction authorised with dynamic currency conversion.
ICRD	InvalidCard	The card is not valid for dynamic currency conversion.
IMER	InvalidMerchant	The card acceptor has not been recognised.
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.
REST	Restriction	Conversion accepted for the requested amount exclusively.
CATG	Catalogue	Conversion accepted for a range of amounts.

19.2.3.39 CustomerOrderRequest1Code

Definition: Type of customer orders that must be sent in response message.

Type: CodeSet

CodeName	Name	Definition
BOTH	Both	All types of CustomerOrder should be listed, some are open others closed.
CLSD	Closed	Completed customer orders.
OPEN	Open	Customer order not completed.

19.2.3.40 DataSetCategory14Code

Definition: Category of data set.

Type: CodeSet

CodeName	Name	Definition
AQPR	AcquirerParameters	Acquirer specific configuration parameters for the point of interaction (POI) system.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
TXCP	BatchCapture	Batch upload of transaction data (data capture of a group of transactions).
AKCP	CaptureResponse	Batch download response for the batch capture of transactions.
DLGT	DelegationData	Data needed to create a terminal management sub-domain.
MGTP	ManagementPlan	Configuration of management plan in the point of interaction.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
SCPR	SecurityParameters	Point of interaction parameters related to the security of software application and application protocol.
SWPK	SoftwareModule	Software module.
STRP	StatusReport	Report of software configuration and parameter status.
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
VDPR	VendorParameters	Point of interaction parameters defined by the manufacturer for instance the PIN verification capabilities.
PARA	Parameters	Any combination of configuration parameters for the point of interaction (POI).
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
LOGF	LogFile	Any repository used for recording log traces.
CMRQ	CertificateManagementRequest	Trigger for CertificateManagementRequest.
MDFL	MediaFile	Media file managed by an application of the POI.
SOFT	SoftwareApplication	Software Application or module of the POI.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

19.2.3.41 DocumentType7Code

Definition: Specifies a type of financial or commercial document.

Type: CodeSet

CodeName	Name	Definition
JNRL	Journal	When the POI or the Sale System wants to store a message on the journal printer or electronic journal of the Sale Terminal (it is sometimes a Sale Logging/Journal Printer).
CRCP	CustomerReceipt	When the Sale System requires the POI system to print the Customer receipt.
HRCP	CashierReceipt	When the Sale system print the Cashier copy of the Payment receipt.
SRCP	SaleReceipt	When the Sale System requires the POI system to print the Sale receipt.
RPIN	RelatedPaymentInstruction	Document is a linked payment instruction to which the current payment instruction is related, for example, in a cover scenario.
VCHR	Voucher	Document is an electronic payment document.

19.2.3.42 EncryptionFormat2Code

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.
I238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

19.2.3.43 EventToNotify2Code

Definition: Event the POI notifies to the Sale System.

Type: CodeSet

CodeName	Name	Definition
ABRT	Abort	One or several device request has been sent by the POI during the processing of a service requested by the Sale System. The processing is cancelled by the Customer or stopped by the POI. If the device response is not received by the POI, an event is sent to inform the Sale to abort internally these device requests.
MAIB	BeginMaintenance	Begin of POI Maintenance.

CodeName	Name	Definition
CRDI	CardInserted	A card is inserted in the card reader (see Input request and NotifyCardInputFlag).
COMP	Completed	An Abort request has been sent to abort a message which is already completed.
CRDR	CardRemoved	A card is removed from the card reader.
CUSL	CustomerLanguage	The customer has selected a different language on the POI.
MAIE	EndMaintenance	End of POI Maintenance.
INIT	Initialised	The POI Terminal or the POI System is now ready to work.
KEYP	KeyPressed	The customer has pressed a specific key on the POI.
MAIR	MaintenanceRequired	Maintenance required by the POI.
OODR	OutOfOrder	The POI Terminal or the POI System cannot work.
SADM	SaleAdmin	The POI has performed, or want to perform an automatic administrative process, e.g. the reports at the end of day.
SWUP	SaleWakeUp	A POI terminal requests the payment of the transaction identified by the content of EventDetails in the Event notification.
SECA	SecurityAlarm	Problem of security.
SHUT	Shutdown	The POI Terminal or the POI System is shutting down.
SASS	StopAssistance	When the Customer assistance is stopped, because the Customer has completed its input.
DISC	Disconnected	A disconnection occurred.
CNTN	Connected	Connection has been set up.
TNOK	TransactionApproved	Transaction has been processed and approved by the POI.
TNKO	TransactionDeclined	Transaction has been processed but has been declined.

19.2.3.44 Exemption1Code

Definition: Strong customer authentication exemption.

Type: CodeSet

CodeName	Name	Definition
LOWA	LowAmountExemption	Transaction's amount is low and could be processed without strong customer authentication.
MINT	MerchantInitiatedTransaction	Transaction is initiated by the Card Acceptor.

CodeName	Name	Definition
RECP	RecurringPayment	Transaction is one of a series of recurring payment.
SCPE	SecureCorporatePaymentExemption	Transaction is a secure corporate payment.
SCAD	StrongCustomerAuthenticationDelegation	Card Acceptor is a strong customer authentication delegate.
TRAE	TransactionRiskAnalysisExemption	According to the transaction risk analysis the strong customer authentication is not mandated.
PKGE	TransportFareOrParkingFeeUnattendedPaymentExemption	Payment is processed in a environment where strong customer authentication is inappropriate.
TMBE	TrustedMerchantBeneficiaryExemption	Cardholder has enrolled the Card Acceptor in the exemption list of strong customer authentication.

19.2.3.45 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.
TEND	TenDays	Event takes place every ten business days.

19.2.3.46 InformationQualify1Code

Definition: Qualification of the information to sent to an output logical device, to display or print to the Cashier or the Customer.

Type: CodeSet

CodeName	Name	Definition
CUSA	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
DISP	Display	Standard display interface.
DOCT	Document	When the POI System wants to print specific document (check, dynamic

CodeName	Name	Definition
		currency conversion ...). Used by the Sale System when the printer is not located on the Sale System.
ERRO	Error	The information is related to an error situation occurring on the message sender.
INPT	Input	Answer to a question or information to be entered by the Cashier or the Customer, at the request of the POI Terminal or the Sale Terminal.
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
RCPT	Receipt	Where you print the Payment receipt that could be located on the Sale System or in some cases a restricted Sale ticket on the POI Terminal.
SOND	Sound	Standard sound interface.
STAT	Status	The information is a new state on which the message sender is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.
VCHR	Voucher	Coupons, voucher or special ticket generated by the POI or the Sale System and to be printed.

19.2.3.47 InputCommand1Code

Definition: Type of requested input

Type: CodeSet

CodeName	Name	Definition
DCSG	DecimalString	Wait for a string of digit characters with a decimal point, the length range could be specified.
DGSG	DigitString	Wait for a string of digit characters.
GAKY	GetAnyKey	Wait for a key pressed on the Terminal, to be able to read the message displayed on the Terminal.
GCNF	GetConfirmation	Wait for a confirmation Yes (Y) or No (N) on the Sale System. Wait for a confirmation (Valid or Cancel button) on the POI Terminal. The result of the command is a Boolean: True or False.
GFKY	GetFunctionKey	Wait for a function key pressed on the Terminal: From POI, Valid, Clear, Correct, Generic Function key number. From Sale, Generic Function key.
GMNE	GetMenuEntry	To choose an entry among a list of entries (all of them are not necessary

CodeName	Name	Definition
		selectable). The OutputFormat has to be MenuEntry.
PSWD	Password	Request to enter a password with masked characters while typing the password.
SITE	SiteManager	Wait for a confirmation Yes (Y) or No (N) of the Site Manager on the Sale System.
TXSG	TextString	Wait for a string of alphanumeric characters.
HTML	XHTMLText	Wait for a XHTML data.
SIGN	Signature	Request to wait for signature.

19.2.3.48 InstalmentPlan1Code

Definition: Type of instalment plan.

Type: CodeSet

CodeName	Name	Definition
EQPM	EqualPayment	The payment is split in several instalments of equal amounts.
NQPM	InequalPayment	The payment is split in several instalments of different amounts.
DFRI	DeferredInstalment	The first instalment is deferred.

19.2.3.49 ISO3NumericCountryCode

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, Numeric-3 code). The code is checked against the list of country names coded with three digit characters, defined in the standard.

Type: CodeSet

Format

pattern [0-9]{3,3}

19.2.3.50 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	TranslatelInput	Key may encrypt information before translation.

CodeName	Name	Definition
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.

19.2.3.51 LanguageCode

Definition: Specifies a language.

Type: CodeSet

Constraints

- **ValidationByTable**

Must be a valid terrestrial language.

19.2.3.52 LocationCategory1Code

Definition: Location category code of the place where the merchant actually performed the transaction.

Type: CodeSet

CodeName	Name	Definition
FIXD	Fixed	Fixed location, for example in a shop.
ABRD	Aboard	Aboard a bus, train, ship, airplane, taxi, etc.
NMDC	Nomadic	Nomadic location.
MOTO	MailOrderTelephoneOrder	Mail order or telephone order.
HOME	Home	Customer home.

19.2.3.53 LocationCategory3Code

Definition: Indicates the type of integration of the POI terminal in the sale environment.

Type: CodeSet

CodeName	Name	Definition
INDR	Indoor	Indoor terminal.
IPMP	InsidePump	Terminal incorporated in the pump dispensing petrol.
MPOI	MultiplePOITerminal	Multiple terminals linked to a unique sale terminal.
MPMP	MultiplePump	Outdoor terminal serving several petrol pumps.
MSLE	MultipleSaleTerminal	Terminal serving multiple sale terminals.
SSLE	SingleSaleTerminal	Terminal linked to a unique sale terminal.
VNDG	VendingMachine	Terminal integrated in a vending machine.

19.2.3.54 LoyaltyHandling1Code

Definition: Possible types of Loyalty processing.

Type: CodeSet

CodeName	Name	Definition
ALLO	Allowed	The loyalty is accepted, but the POI has not to require or ask a loyalty card. The loyalty is involved by the payment card (e.g. an hybrid or linked card).
DENY	Forbidden	No loyalty card to read and loyalty transaction to process. Any attempt to enter a pure loyalty card is rejected.
PRCS	Processed	The loyalty transaction is already processed, no loyalty card or loyalty transaction to process.
PROP	Proposed	The loyalty is accepted, and the POI has to ask a loyalty card. If the Customer does not enter a loyalty card, no loyalty transaction is realised.
REQU	Required	The loyalty is required, and the POI refuses the processing of the message request if the cardholder does not enter a loyalty card.

19.2.3.55 LoyaltyTransactionType1Code

Definition: Type of loyalty transaction.

Type: CodeSet

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.

CodeName	Name	Definition
AWRR	AwardRefund	Refund of a loyalty award transaction.
REBR	RebateRefund	Refund of a loyalty rebate transaction.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
REDR	RedemptionRefund	Refund of a loyalty redemption transaction.

19.2.3.56 LoyaltyTypeTransactionTotals1Code

Definition: Type of Loyalty transaction.

Type: CodeSet

CodeName	Name	Definition
AWRD	Award	Direct or payment related award on a loyalty account. Award alone, award associated to a payment (may be with an additional award alone), award because of a payment resulting on rebates.
REBA	Rebate	Rebate on a total amount, sale item amount, or sale items.
REDE	Redemption	Redemption on a loyalty account.
AWRR	ReverseAward	Refund of a loyalty award transaction.
REBR	ReverseRebate	Refund of a loyalty rebate transaction.
REDR	ReverseRedemption	Refund of a loyalty redemption transaction.

19.2.3.57 MemoryUnit1Code

Definition: Unit of the memory size.

Type: CodeSet

CodeName	Name	Definition
BYTE	Byte	Byte.
EXAB	ExaByte	Exa byte.
GIGA	GigaByte	Giga byte.
KILO	KiloByte	Kilo byte.
MEGA	MegaByte	Mega byte.
PETA	PetaByte	Peta byte.
TERA	TeraByte	Tera byte.

19.2.3.58 NetworkType1Code

Definition: Type of communication network.

Type: CodeSet

CodeName	Name	Definition
IPNW	InternetProtocol	Protocol of an IP network.
PSTN	PublicTelephone	Protocol of a Public Switched Telephone Network (PSTN).

19.2.3.59 OnLineCapability1Code

Definition: On-line and off-line capabilities of the POI (Point Of Interaction).

Type: CodeSet

CodeName	Name	Definition
OFLN	OffLine	Off-line only capable.
ONLN	OnLine	On-line only capable.
SMON	SemiOffLine	Off-line capable with possible on-line requests to the acquirer.

19.2.3.60 OnLineReason1Code

Definition: Reason to process an online authorisation.

Type: CodeSet

CodeName	Name	Definition
RNDM	RandomSelection	Transaction random selection to go online.
ICCF	ICCForced	Payment application in the Integrated Circuit Card forces to go on-line.
MERF	MerchantForced	On line forced by card acceptor.
TRMF	TerminalForced	Terminal random selection to go online.
ISSF	IssuerForced	On line forced by card issuer.
FRLT	FloorLimit	Over floor limit.
EXFL	ExceptionFile	Card appears on terminal exception file.
TAMT	TotalAmount	Total amount of purchases per cardholder and per application above floor limit.
CBIN	ControlledBIN	Bank Identification Number under control.
UBIN	UnknownBIN	Unknown Bank Identification Number.
CPAN	ControlledPAN	Primary account number (card number) under control.
FLOW	FlowControl	Flow control.
CRCY	UnavailableCurrency	Unknown currency code or foreign currency.

19.2.3.61 Operator1Code

Definition: Code containing the operator used to indicate the relationship between a variable and a fixed value.

Type: CodeSet

CodeName	Name	Definition
SMAL	SmallerThan	Smaller than.
SMEQ	SmallerOrEqualTo	Smaller or equal to.
GREA	GreaterThan	Greater than.
GREQ	GreaterOrEqualTo	Greater or equal to.
EQAL	EqualTo	Equal to.

19.2.3.62 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.

19.2.3.63 OutputFormat3Code

Definition: Type of output format.

Type: CodeSet

CodeName	Name	Definition
BARC	Barcode	Barcode to output in several possible format.
MENT	MenuEntry	A text to display as a menu before requesting an input.
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.

19.2.3.64 PartyType14Code

Definition: Identification of the type of entity involved in a transaction.

Type: CodeSet

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.

CodeName	Name	Definition
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
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.
ICCA	CardApplication	Application in the smart card.

19.2.3.65 PartyType33Code

Definition: Identification of the type of entity involved in a transaction.

Type: CodeSet

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
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.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TAXH	TaxAuthority	Tax authority.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

19.2.3.66 PartyType3Code

Definition: Identification of the type of entity involved in a transaction.

Type: CodeSet

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
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.

19.2.3.67 PartyType4Code

Definition: Entity assigning an identification (for example merchant, acceptor, acquirer, tax authority, etc.).

Type: CodeSet

CodeName	Name	Definition
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
TAXH	TaxAuthority	Tax authority.

19.2.3.68 PartyType7Code

Definition: Party that communicate with a POI component (Point of Interaction), using a communication device.

Type: CodeSet

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
PCPT	POIComponent	Party component of a POI system or POI terminal (Point of Interaction).
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

CodeName	Name	Definition
SALE	SaleSystem	Party selling goods and services.

19.2.3.69 PaymentInstrumentType1Code

Definition: Type of payment instrument.

Type: CodeSet

CodeName	Name	Definition
CARD	Card	Payment card (credit or debit).
CASH	Cash	Cash managed by a cash handling system.
CHCK	Check	Paper check.
LOYT	LoyaltyAccount	Account using loyalty processing.
SVAC	StoredValueAccount	Account accessed by a stored value instrument such as a card or a certificate.

19.2.3.70 PINFormat3Code

Definition: PIN (Personal Identification Number) format used before encryption.

Type: CodeSet

CodeName	Name	Definition
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.

19.2.3.71 PINRequestType1Code

Definition: Type of PIN Service.

Type: CodeSet

CodeName	Name	Definition
PIAE	PINAcquisitionEncryption	The cardholder enters the PIN, the POI enciphers the PIN Block and provides it as a result to the Sale System.

CodeName	Name	Definition
PIAV	PINAcquisitionVerification	The Cardholder enters the PIN and the POI verifies it.
PIVO	PINVerifyOnly	The Sale System send a previous keyed PIN and the POI verifies it.

19.2.3.72 POICommunicationType2Code

Definition: Low level communication of the hardware or software component toward another component or an external entity.

Type: CodeSet

CodeName	Name	Definition
BLTH	Bluetooth	Communication with a host using Bluetooth.
ETHR	Ethernet	Ethernet port to communicate.
GPRS	GPRS	Communication with a host using GPRS.
GSMF	GSM	Communication with a host using GSM.
PSTN	PSTN	Communication with a host using Public Switching Telephone Network.
RS23	RS232	Serial port to communicate.
USBD	USBDevice	Communication with a USB stick or any USB device.
USBH	USBHost	Communication with a host from an USB port.
WIFI	Wifi	Wifi communication with another component.
WT2G	WirelessTechnology2G	Includes all communication technologies which can be qualified as being part of the 2G technology (e.g EDGE or PDC).
WT3G	WirelessTechnology3G	Includes all communication technologies which can be qualified as being part of the 3G technology.
WT4G	WirelessTechnology4G	Includes all communication technologies which can be qualified as being part of the 4G technology.
WT5G	WirelessTechnology5G	Includes all communication technologies which can be qualified as being part of the 5G technology.

19.2.3.73 POIComponentAssessment1Code

Definition: Type of assessment of a POI component (Point of Interaction).

Type: CodeSet

CodeName	Name	Definition
APPL	Approval	Approval number delivered by an approval centre.

CodeName	Name	Definition
CERT	Certification	Certification number delivered by a certification body.
EVAL	Evaluation	Evaluation by a lab or a tool.

19.2.3.74 POIComponentStatus1Code

Definition: Status of a component belonging to a POI Terminal (Point of Interaction).

Type: CodeSet

CodeName	Name	Definition
WAIT	WaitingActivation	Component not yet activated.
OUTD	OutOfOrder	Component not working properly.
OPER	InOperation	Component activated and in operation.
DACT	Deactivated	Component has been deactivated.

19.2.3.75 POIComponentType6Code

Definition: Type of component belonging to a POI (Point of Interaction) Terminal.

Type: CodeSet

CodeName	Name	Definition
AQPP	AcquirerProtocolParameters	Parameters for acquirer interface of the point of interaction, including acquirer host configuration parameters.
APPR	ApplicationParameters	Parameters of a payment application running on the point of interaction.
TLPR	TerminalParameters	Manufacturer configuration parameters of the point of interaction.
SCPR	SecurityParameters	Security parameters of the point of interaction.
SERV	Server	Payment server of a point of interaction system.
TERM	Terminal	Payment terminal point of interaction.
DVCE	Device	Device sub-component of a component of the point of interaction.
SECM	SecureModule	Security module.
APLI	PaymentApplication	Payment application software.
EMVK	EMVKernel	EMV application kernel (EMV is the chip card specifications initially defined by Eurocard, Mastercard and Visa).
EMVO	EMVLevel1	EMV physical interface (EMV is the chip card specifications initially defined by Eurocard, Mastercard and Visa).
MDWR	Middleware	Software module of the point of interaction.
DRVR	Driver	Driver module of the point of interaction.

CodeName	Name	Definition
OPST	OperatingSystem	Software that manages hardware to provide common services to the applications.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
CRTF	CertificateParameters	Certificate provided by a terminal manager.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
SACP	SaleComponent	Component of the Sale system.
SAPR	SaleToPOIProtocolParameters	Parameters related to the Sale to POI protocol.
LOGF	LogFile	Any repository used for recording log traces.
MDFL	MediaFile	Media file managed by an application of the POI.
SOFT	Soft	Payment or other software application.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

19.2.3.76 QRCodeEncodingMode1Code

Definition: Encoding Mode of Quick Response Code.

Type: CodeSet

CodeName	Name	Definition
ALFA	Alphanumeric	Alphanumeric value provided in Barcode field.
BINA	Binary	Binary value provided in Quick Response Code Binary Value.
KANJ	Kanji	Kanji value provided in Quick Response Code Binary Value.
NUME	Numeric	Numeric value provided in Barcode field.

19.2.3.77 QRCodeErrorCorrection1Code

Definition: Error Correction mode of Quick Response Code.

Type: CodeSet

CodeName	Name	Definition
M015	ErrorCorrection15Percent	Reed-Solomon error correction 15%
Q025	ErrorCorrection25Percent	Reed-Solomon error correction 25%
H030	ErrorCorrection30Percent	Reed-Solomon error correction 30%
L007	ErrorCorrection7Percent	Reed-Solomon error correction 7%

19.2.3.78 ReconciliationType1Code

Definition: Type of Reconciliation requested by the Sale to the POI.

Type: CodeSet

CodeName	Name	Definition
AREC	AcquirerReconciliation	Reconciliation between the POI and one or several Acquirers only. There is no reconciliation between the Sale System and the POI System.
ASYN	AcquirerSynchronisation	Reconciliation and closure of the current period, with synchronisation of the reconciliation between the POI and Acquirers.
PREC	PreviousReconciliation	Request result of a previous reconciliation.
SREC	SaleReconciliation	Reconciliation with closure of the current period, without any Acquirers synchronisation.

19.2.3.79 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.
RCPD	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.

19.2.3.80 Response5Code

Definition: Result of the processing of the message

Type: CodeSet

CodeName	Name	Definition
SUCC	Success	Processing OK. Information related to the result of the processing is contained in other parts of the response message.
FAIL	Failure	Processing of the request fails for various reasons. Some further processing according to the type of requested service, the context of the process, and some additional precision about the failure notified in the ErrorCondition data element.
PART	PartialApproved	Service has been partialy provided.

19.2.3.81 Response9Code

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 partialy provided.
SUSP	Suspended	Transaction has been received but hasn't been processed.
TECH	TechnicalError	Service cannot be provided for technical reason (eg timeout contacting the Issuer, security problem).

19.2.3.82 ResponseMode1Code

Definition: Message response awaited by the initiator of the Request.

Type: CodeSet

CodeName	Name	Definition
IMMD	Immediate	The Message Response is immediate, after taking into account the request.
NREQ	NotRequired	The Message Response is not required, except in case of error.
PEND	PrintEnd	The Print Response is required at the end of print.
SEND	SoundEnd	The Sound Response is required at the end of play.

19.2.3.83 RetailerMessage1Code

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

Type: CodeSet

CodeName	Name	Definition
SSAB	Abort	Abort the current process or the last request.
SAAQ	AdminRequest	To select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
SAAP	AdminResponse	Response to the Admin request.
SDDR	DeviceRequest	Request one or several functions of the device, from user Interface or payment peripherals on the POI system or on the Sale system. Functions can be Display, Input, Print, play sound, Card reader capabilities or Transmit a message.
SDDP	DeviceResponse	Response to a Device request.
SSEN	EventNotification	Notify the other party of an event that occurs on its side.
SSMQ	MessageStatusRequest	Request the status of a previous message for which the Sale system has no response.
SSMR	MessageStatusResponse	Response to a Message Status request.
SSRJ	Rejection	Reject a previous received message, for technical or functional reasons.
SARQ	ReportRequest	To request, by the Sale System, a report on a list of transactions on the POI system, or the status of a transaction.
SARP	ReportResponse	Response to a Report request.
SFRP	SaleFinancialReconciliationResponse	Response to a Reconciliation Request.
SFRQ	SaleFinancialReconciliationRequest	Request a reconciliation (different types) between Sale System and POI System.
SFSQ	SaleFinancialServiceRequest	Request a financial service like payment, reversal, loyalty, Balance Inquiry, etc.
SFSP	SaleFinancialServiceResponse	Response to a financial service request.
SASQ	SessionManagementRequest	Request the management of a session: login, logout and diagnosis services. Initiated by the Sale system.
SASP	SessionManagementResponse	Response to a session management request to initiate/terminate a session.

19.2.3.84 RetailerResultDetail1Code

Definition: Result of the processing of the message

Type: CodeSet

CodeName	Name	Definition
ABRT	Aborted	The Initiator of the request has sent an Abort message request, which was accepted and processed.

CodeName	Name	Definition
BUSY	Busy	The system is busy, try later.
CANC	Cancel	The user has aborted the transaction on the PED keyboard, for instance during PIN entering.
DEVO	DeviceOut	Device out of order.
WPIN	WrongPIN	The user has entered the PIN on the PED keyboard and the verification fails.
NHOS	UnreachableHost	Acquirer or any host is unreachable or has not answered to an online request, so is considered as temporary unavailable. Depending on the Sale context, the request could be repeated (to be compared with "Refusal").
UNVS	UnavailableService	The service is not available (not implemented, not configured, protocol version too old...).
UNVD	UnavailableDevice	The hardware is not available (absent, not configured...).
REFU	Refusal	The transaction is refused by the host or by the local rules associated to the card or the POI.
PAYR	PaymentRestriction	Some sale items are not payable by the card proposed by the Customer.
TNFD	NotFound	The transaction is not found (e.g. for a reversal or a repeat).
NALW	NotAllowed	A service request is sent during a Service dialogue. A combination of services not possible to provide. During the DeviceInitialisationCardReader message processing, the user has entered a card which has to be protected by the POI, and cannot be processed with this device request from the external, and then the Sale System.
LOUT	LoggedOut	Not logged in.
IVCA	InvalidCard	The card entered by the Customer cannot be processed by the POI because this card is not configured in the system.
ICAR	InsertedCard	If the Input Device request a NotifyCardInputFlag and the Customer enters a card in the card reader without answers to the Input command, the POI abort the Input command processing, and answer a dedicated ErrorCondition value in the Input response message.
WIPG	InProgress	The transaction is still in progress and then the command cannot be processed.

19.2.3.85 RetailerService1Code

Definition: List of Retail services available and used in the Retail messages. Helps to know which service to activate.

Type: CodeSet

CodeName	Name	Definition
DCAQ	DeviceSendApplicationProtocolDataUnitCardReaderRequest	A service to send commands to a card.
ADAQ	AdministrativeAdminRequest	An administrative request, to select and start customised administrative services provided by the POI, using a "menu" for an interactive or software interface, initiated by the Sale system.
ADAP	AdministrativeAdminResponse	The POI System responds to an administrative request.
RPAP	AdministrativeReportGetTotalsResponse	The POI System responds to a totals figures request.
RPAQ	AdministrativeReportGetTotalsRequest	The Sale System requests to the POI System a report on the totals figures of the POI system.
RPTQ	AdministrativeReportTransactionRequest	The Sale System requests to the POI System a report on a list of transactions.
RPTP	AdministrativeReportTransactionResponse	The POI System responds to a transaction report request.
SMDQ	AdministrativeSessionManagementDiagnosisRequest	The Sale System requests a session diagnosis to the POI System.
SMDP	AdministrativeSessionManagementDiagnosisResponse	The POI System responds to a diagnosis request.
SMIQ	AdministrativeSessionManagementLoginRequest	The Sale System requests a login to the POI System.
SMIP	AdministrativeSessionManagementLoginResponse	The POI System responds to a login request.
SMOQ	AdministrativeSessionManagementLogoutRequest	The Sale System requests a logout to the POI System.
SMOP	AdministrativeSessionManagementLogoutResponse	The POI System responds to a logout request.
DDYQ	DeviceDisplayRequest	One System requests the other to display a message for cashier or customer.
DDYP	DeviceDisplayResponse	One system responds to the other system for a display request.
DCIQ	DeviceInitialisationCardReaderRequest	Service to send parameters to use when card reader initializes a new communication with the card.
DCIP	DeviceInitialisationCardReaderResponse	The POI system responds to the Sale System for a card reader initialisation.
DINO	DeviceInputNotification	One system sends a notification to the POI System to update a input request.

CodeName	Name	Definition
DINQ	DeviceInputRequest	One system requests to the other System to get data input.
DINP	DeviceInputResponse	One system responds to the other System for a input request.
DSOQ	DevicePlaySoundRequest	One system requests to the Other System to play a sound.
DSOP	DevicePlaySoundResponse	One system responds to the other System for a play sound request.
DCPQ	DevicePowerOffCardReaderRequest	The Sale system requests to the POI System to power off the card reader.
DCPP	DevicePowerOffCardRequestResponse	The POI system responds to the Sale System for a card reader power off.
DPRQ	DevicePrintRequest	One system requests to the other System to print data.
DPRP	DevicePrintResponse	One system responds to the other System for a print request.
DSIQ	DeviceSecureInputRequest	One system requests to the Other System to securely get data input (e.g. for PIN).
DSIP	DeviceSecureInputResponse	One system responds to the other System for secure data input.
DCAP	DeviceSendApplicationProtocolDataUnitCardReaderResponse	The POI system responds to the Sale System for a card reader Application Protocol Data Unit sending.
DCOQ	DeviceTransmissionMessageRequest	The Sale system requests to the POI System to transmit a message (for instance to a mobile server).
DCOP	DeviceTransmissionMessageResponse	The POI system responds to the Sale System after a message transmission.
FSIQ	FinancialBalanceInquiryRequest	The Sale System requests to the POI System to perform balance inquiry on the main account.
FSIP	FinancialBalanceInquiryResponse	The POI System sends a response to a Balance Inquiry request.
FSBQ	FinancialBatchRequest	The Batch message pair is used to request or get the result of transactions (payment, loyalty and reversal) performed without connection to the Sale system (Payment delivery).
FSBP	FinancialBatchResponse	The POI System sends a response to a batch processing request.
FSAQ	FinancialCardAcquisitionRequest	The Sale System requests to the POI System to handle a card data acquisition on the card reader.
FSAP	FinancialCardAcquisitionResponse	The POI System sends a response to a card data acquisition request.
FSEQ	FinancialEnableServiceRequest	The Sale System requests to the POI System to enable a service on its side.

CodeName	Name	Definition
FSEP	FinancialEnableServiceResponse	The POI System sends a response after enabling or not some service.
FSLQ	FinancialLoyaltyRequest	The Sale System requests to the POI System a loyalty service like loading or redeem.
FSLP	FinancialLoyaltyResponse	The POI System sends a response to a loyalty processing request.
FSPQ	FinancialPaymentRequest	The Sale System requests to the POI System to perform a payment(Purchase/Refund/PWCB/MOTO Payment/...).
FSPR	FinancialPaymentResponse	The POI System sends a response to a payment request (Purchase/refund/PWCB/MOTO Payment/...).
FSCQ	FinancialReconciliationRequest	The Sale System request to the POI System different kinds of transaction reconciliation.
FSCP	FinancialReconciliationResponse	The POI System sends a response to a reconciliation request.
FSRQ	FinancialReversalRequest	The Sale System requests to the POI System to perform a reversal partial or complete to cancel a former payment service.
FSRP	FinancialReversalResponse	The POI System sends a response to a reversal request.
FSVQ	FinancialStoredValueRequest	The Sale System requests to the POI System to manage a stored value card or account (eg. Load, Payment, Reimbursement).
FSVP	FinancialStoredValueResponse	The POI System sends a response to a stored value card or account request.
SSAB	SystemAbort	Abort a former request or message by the sale system.
SSEN	SystemEventNotification	Send an Event notification to the other party.
SSRR	SystemMessageRejection	Send a rejection for a previous message.
SSSQ	SystemMessageStatusRequest	The Sale System requests to the POI System the status of a previous transaction.
SSSP	SystemMessageStatusResponse	The POI System responds to a message status request.

19.2.3.86 RetailerService2Code

Definition: List of specific services for ServiceRequest

Type: CodeSet

CodeName	Name	Definition
FSPQ	FinancialPaymentRequest	The Sale System requests to the POI System to perform a payment(Purchase/Refund/PWCB/MOTO Payment/...).
FSRQ	FinancialReversalRequest	The Sale System requests to the POI System to perform a reversal partial or complete to cancel a former payment service.
FSIQ	FinancialBalanceInquiryRequest	The Sale System requests to the POI System to perform balance inquiry on the main account.
FSBQ	FinancialBatchRequest	The Batch message pair is used to request or get the result of transactions (payment, loyalty and reversal) performed without connection to the Sale system (Payment delivery).
FSLQ	FinancialLoyaltyRequest	The Sale System requests to the POI System a loyalty service like loading or redeem.
FSVQ	FinancialStoredValueRequest	The Sale System requests to the POI System to manage a stored value card or account (eg. Load, Payment, Reimbursement).
FSEQ	FinancialEnableServiceRequest	The Sale System requests to the POI System to enable a service on its side.
FSAQ	FinancialCardAcquisitionRequest	The Sale System requests to the POI System to handle a card data acquisition on the card reader.
FSCQ	FinancialReconciliationRequest	The Sale System request to the POI System different kinds of transaction reconciliation.

19.2.3.87 RetailerService3Code

Definition: List of specific services for ServiceResponse.

Type: CodeSet

CodeName	Name	Definition
FSPR	FinancialPaymentResponse	The POI System sends a response to a payment request (Purchase/refund/PWCB/MOTO Payment/...).
FSRP	FinancialReversalResponse	The POI System sends a response to a reversal request.
FSIP	FinancialBalanceInquiryResponse	The POI System sends a response to a Balance Inquiry request.
FSBP	FinancialBatchResponse	The POI System sends a response to a batch processing request.
FSLP	FinancialLoyaltyResponse	The POI System sends a response to a loyalty processing request.
FSVP	FinancialStoredValueResponse	The POI System sends a response to a stored value card or account request.

CodeName	Name	Definition
FSEP	FinancialEnableServiceResponse	The POI System sends a response after enabling or not some service.
FSAP	FinancialCardAcquisitionResponse	The POI System sends a response to a card data acquisition request.
FSCP	FinancialReconciliationResponse	The POI System sends a response to a reconciliation request.

19.2.3.88 RetailerService4Code

Definition: List of specific services for SessionManagementRequest.

Type: CodeSet

CodeName	Name	Definition
SMIQ	AdministrativeSessionManagementLoginRequest	The Sale System requests a login to the POI System.
SMOQ	AdministrativeSessionManagementLogoutRequest	The Sale System requests a logout to the POI System.
SMDQ	AdministrativeSessionManagementDiagnosisRequest	The Sale System requests a session diagnosis to the POI System.

19.2.3.89 RetailerService5Code

Definition: List of specific services for SessionManagementResponse.

Type: CodeSet

CodeName	Name	Definition
SMIP	AdministrativeSessionManagementLoginResponse	The POI System responds to a login request.
SMOP	AdministrativeSessionManagementLogoutResponse	The POI System responds to a logout request.
SMDP	AdministrativeSessionManagementDiagnosisResponse	The POI System responds to a diagnosis request.

19.2.3.90 RetailerService6Code

Definition: List of specific services for ReportRequest.

Type: CodeSet

CodeName	Name	Definition
RPTQ	AdministrativeReportTransactionRequest	The Sale System requests to the POI System a report on a list of transactions.
RPAQ	AdministrativeReportGetTotalsRequest	The Sale System requests to the POI System a report on the totals figures of the POI system.

19.2.3.91 RetailerService7Code

Definition: List of specific services for ReportResponse.

Type: CodeSet

CodeName	Name	Definition
RPTP	AdministrativeReportTransactionResponse	The POI System responds to a transaction report request.
RPAP	AdministrativeReportGetTotalsResponse	The POI System responds to a totals figures request.

19.2.3.92 RetailerService8Code

Definition: List of specific services for DeviceRequest.

Type: CodeSet

CodeName	Name	Definition
DDYQ	DeviceDisplayRequest	One System requests the other to display a message for cashier or customer.
DINQ	DeviceInputRequest	One system requests to the other System to get data input.
DPRQ	DevicePrintRequest	One system requests to the other System to print data.
DSOQ	DevicePlaySoundRequest	One system requests to the Other System to play a sound.
DSIQ	DeviceSecureInputRequest	One system requests to the Other System to securely get data input (e.g. for PIN).
DCIQ	DeviceInitialisationCardReaderRequest	Service to send parameters to use when card reader initializes a new communication with the card.
DCAQ	DeviceSendApplicationProtocolDataUnitCardReaderRequest	A service to send commands to a card.
DCPQ	DevicePowerOffCardReaderRequest	The Sale system requests to the POI System to power off the card reader.
DCOQ	DeviceTransmissionMessageRequest	The Sale system requests to the POI System to transmit a message (for instance to a mobile server).
DINO	DeviceInputNotification	One system sends a notification to the POI System to update a input request.

19.2.3.93 RetailerService9Code

Definition: List of specific services for DeviceResponse.

Type: CodeSet

CodeName	Name	Definition
DDYP	DeviceDisplayResponse	One system responds to the other system for a display request.
DINP	DeviceInputResponse	One system responds to the other System for a input request.
DPRP	DevicePrintResponse	One system responds to the other System for a print request.

CodeName	Name	Definition
DSOP	DevicePlaySoundResponse	One system responds to the other System for a play sound request.
DSIP	DeviceSecureInputResponse	One system responds to the other System for secure data input.
DCIP	DeviceInitialisationCardReaderResponse	The POI system responds to the Sale System for a card reader initialisation.
DCAP	DeviceSendApplicationProtocolDataUnitCardReaderResponse	The POI system responds to the Sale System for a card reader Application Protocol Data Unit sending.
DCPP	DevicePowerOffCardRequestResponse	The POI system responds to the Sale System for a card reader power off.
DCOP	DeviceTransmissionMessageResponse	The POI system responds to the Sale System after a message transmission.

19.2.3.94 ReversalReason1Code

Definition: Reason of the payment or loyalty reversal.

Type: CodeSet

CodeName	Name	Definition
CUSC	CustomerCancellation	Customer cancels the transaction.
MALF	Malfuntion	Reversal after a suspicion of malfunction of the POI system.
MERC	MerchantCancellation	Merchant or Cashier cancels the transaction.
UNAB	UnableToComplete	POI System unable to complete transaction.

19.2.3.95 SaleCapabilities1Code

Definition: Hardware capabilities of the Sale Terminal.

Type: CodeSet

CodeName	Name	Definition
CHDI	CashierDisplay	Standard Cashier display interface (to ask question, or to show information).
CHER	CashierError	To display to the Cashier information related to an error situation occurring on the POI.
CHIN	CashierInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element). The output device attached to this input device is the CashierDisplay device.
CHST	CashierStatus	To display to the Cashier a new state on which the POI is entering. For instance, during a payment, the POI could display to the Cashier that POI request an authorisation to the host acquirer.

CodeName	Name	Definition
CUDI	CustomerDisplay	Standard Customer display interface used by the POI System to ask question, or to show information to the Customer inside a Service dialogue.
CUAS	CustomerAssistance	Input of the Cardholder POI interface which can be entered by the Cashier to assist the Customer.
CUER	CustomerError	To display to the Customer information is related to an error situation occurring on the Sale Terminal during a Sale transaction.
CUIN	CustomerInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element).
POIR	POIReplication	Information displayed on the Cardholder POI interface, replicated on the Cashier interface.
PRDC	PrinterDocument	When the POI System wants to print specific document (check, dynamic currency conversion ...).
PRRP	PrinterReceipt	Printer for the Payment receipt.
PRVC	PrinterVoucher	Coupons, voucher or special ticket generated by the POI and to be printed.

19.2.3.96 SaleCapabilities2Code

Definition: Type of the Logical device located on a Sale Terminal or a POI Terminal, in term of class of information to output (display, print or store), or input (keyboard) for the Cashier

or the Customer.

Type: CodeSet

CodeName	Name	Definition
CHIN	CashierInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element). The output device attached to this input device is the CashierDisplay device.
CUIN	CustomerInput	Any kind of keyboard allowing all or part of the commands of the Input message request from the Sale System to the POI System (InputCommand data element).

19.2.3.97 SaleTokenScope1Code

Definition: Scope of the token that identifies the payment mean of the customer.

Type: CodeSet

CodeName	Name	Definition
MULT	MultipleUse	The token is generated to recognise a customer for a longer period.
SNGL	SingleUse	The token is generated to recognise a customer during the lifetime of a transaction.

19.2.3.98 SoundAction1Code

Definition: Type of action to perform on the sound.

Type: CodeSet

CodeName	Name	Definition
DVOL	SetDefaultVolume	Set the default volume of sounds.
STAS	StartSound	Start the sound as specified in the message.
STOS	StopSound	Stop the sound in progress.

19.2.3.99 SoundFormat1Code

Definition: Type of sound to play.

Type: CodeSet

CodeName	Name	Definition
MSGR	MessageRef	Reference of a preloaded text to play.
SNDR	SoundRef	Preloaded sound File.
TEXT	Text	Text to play.

19.2.3.100 StoredValueAccountType1Code

Definition: Type of stored value account.

Type: CodeSet

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
CPYA	CompanyPrepaidAccount	Specific prepaid account for companies or professionals expenses.
ELMY	ElectronicMoneyAccount	Account supporting e-money issued by an electronic money issuer.
GIFT	GiftCard	Payment mean issued by retailers or banks as a substitute to a non-monetary gift. Usually, this Stored Value item is used only once.
GCER	GiftCertificate	Certificate to be given to a customer. Usually one shot voucher.
MLVC	MealVoucher	Meal and check voucher for restaurants.

CodeName	Name	Definition
OLVC	OnlineVoucher	Voucher that can be used online once or in several times.
MERC	MerchantAccount	Prepaid account open with a merchant or big retailers.
OTHR	OtherPrepaidAccount	Other non listed stored value instrument.
PHON	PhoneCard	Stored value instrument used to pay telephone services (e.g. card or identifier).
CARD	SmartCardTag	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

19.2.3.101 StoredValueTransactionType2Code

Definition: Identification of operation to proceed on the stored value account or the stored value card.

Type: CodeSet

CodeName	Name	Definition
ACTV	Activate	Activate the account or the card.
DUPL	Duplicate	Duplicate the code or number provided by the loading or activation.
LOAD	Load	Load the account or the card with money.
RESV	Reserve	Reserve the account (e.g. get an activation code).
REVS	Reverse	Reverse an activation or loading.
ULOA	Unload	Unload the account.
CLOS	CloseAccount	Close the account.
DCTV	Deactivate	Deactivate the account or the card.
OPEN	OpenAccount	Open the account.

19.2.3.102 SupportedPaymentOption1Code

Definition: Specifies the options supported for a payment transaction.

Type: CodeSet

CodeName	Name	Definition
PART	PartialApproval	The entity supports a partial approval of the payment transaction.
MSRV	PaymentApprovalOnly	The entity supports the approval of the payment service along with the decline of additional requested services (as cash-back).

19.2.3.103 TerminalManagementAction4Code

Definition: Types of terminal management action to be performed by a point of interaction.

Type: CodeSet

CodeName	Name	Definition
DCTV	Deactivate	Request to deactivate the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
DWNL	Download	Request to download the element identified inside the message exchange.
INST	Install	Request to install the element identified inside the message exchange.
RSTR	Restart	Request to restart the element identified inside the message exchange.
UPLD	Upload	Request to upload the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.
BIND	Bind	Request sent to a POI to bind with a server.
RBND	Rebind	Request sent to a POI to rebind with a server.
UBND	Unbind	Request sent to a POI to unbind with a server.
ACTV	Activate	Request to activate the element identified inside the message exchange.

19.2.3.104 TerminalManagementActionResult4Code

Definition: Final result of the processed terminal management action.

Type: CodeSet

CodeName	Name	Definition
ACCD	AccessDenied	Access is denied while performing the action.
CNTE	ConnectionError	Problem to connect while performing the action.
FMTE	FormatError	Data transferred has a wrong format.
INVC	InvalidContent	Content of the data is invalid.
LENE	LengthError	Data transferred has a wrong length.
OVER	MemoryOverflow	Memory to store the date exceeded.
MISS	MissingFile	Data set to be maintained is missing.
NSUP	NotSupported	Action is not supported.
SIGE	SignatureError	Data transferred has a wrong digital signature.
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.
UKDT	UnknownData	Data set identification invalid.
UKRF	UnknownKeyReference	Cryptographic key reference used for the data signature is not valid.
INDP	InvalidDelegationProof	Delegation Proof transmitted by the delegated TMS is not the one expected.
IDMP	InvalidDelegationInManagementPlan	One action of the AcceptorManagementPlan refers to an update unauthorized by the delegation.
DPRU	DelegationParametersReceivedUnauthorized	The content analysis of the AcceptorConfigurationUpdate reveals unexpected parameters.
AERR	AnyError	This code value means all TerminalManagementActionResultCode except "Any Error" and "Unlisted Error".
CMER	CommunicationError	Error in communication once the connection has been established.
ULER	UnlistedError	Any error that is not defined by a code value inside the TerminalManagementActionResultCode.

19.2.3.105 TMSContactLevel1Code

Definition: Level of urgency in contacting the terminal management system.

Type: CodeSet

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

19.2.3.106 TotalDetails1Code

Definition: Indicates the hierarchical structure of the reconciliation result of the Sale to POI reconciliation.

Type: CodeSet

CodeName	Name	Definition
OPID	PerCashierIdentification	Give the totals result per Operator Identification value.
PIID	PerPOIIdentification	Give the totals result per POI Identification value.
TGID	PerTotalsGroup	Give the totals result per Totals Group Identification value.

CodeName	Name	Definition
SNID	PerShiftNumber	Give the totals result per Shift Number Identification value.
SAID	PerSaleIdentification	Give the totals result per Sale Identification value.

19.2.3.107 TrackFormat1Code

Definition: Use to identify format of a track on a card or other documents like checks.

Type: CodeSet

CodeName	Name	Definition
AAMV	AAMVFormat	American driver license.
CMC7	CMC7CheckFormat	Magnetic Ink Character Recognition, using the CMC-7 font - ISO 1004 Line at the bottom of a check containing the bank account and the check number.
E13B	E13BCheckFormat	Magnetic Ink Character Recognition, using the E-13B font) Line at the bottom of a check containing the bank account and the check number.
ISOF	ISOFormat	ISO card track format - ISO 7813 - ISO 4909.
JIS1	JISIFormat	Japanese track format I.
JIS2	JISIIFormat	Japanese track format II.

19.2.3.108 TransactionAction1Code

Definition: Action to realise on a transaction.

Type: CodeSet

CodeName	Name	Definition
STAR	StartTransaction	Start a transaction by a swipe ahead mechanism, with the services which are enabled.
STOP	Stop	Keep quite after a swipe ahead mechanism.

19.2.3.109 TransactionChannel5Code

Definition: Identifies the type of the communication channels used by the cardholder to the acceptor system.

Type: CodeSet

CodeName	Name	Definition
MAIL	MailOrder	Mail order.
TLPH	TelephoneOrder	Telephone order.
ECOM	ElectronicCommerce	Electronic commerce.
TVPY	TelevisionPayment	Payment on television.

CodeName	Name	Definition
SECM	SecuredElectronicCommerce	Electronic commerce with cardholder authentication.
MOBL	MobilePayment	Payment performed through a cardholder mobile device.
MPOS	MobilePOS	Payment performed through a merchant mobile device.

19.2.3.110 TransactionEnvironment1Code

Definition: Indicates the environment of the transaction.

Type: CodeSet

CodeName	Name	Definition
MERC	Merchant	Merchant environment.
PRIV	Private	Private environment.
PUBL	Public	Public environment.

19.2.3.111 TypeOfAmount8Code

Definition: Qualifies the amount associated with the transaction.

Type: CodeSet

CodeName	Name	Definition
ACTL	Actual	Actual amount.
ESTM	Estimated	Estimated amount (the final amount could be above or below).
MAXI	Maximum	Maximum amount (the final amount must be less or equal).
DFLT	Default	Default amount.
RPLT	Replacement	Replacement amount.
INCR	Incremental	Incremental amount for reservation.
DECR	Decremental	Decremental amount for reservation.
RESA	Reserved	Reserved or updated reserved amount for reservation.

19.2.3.112 TypeTransactionTotals3Code

Definition: Additional attribute of the service type for totals.

Type: CodeSet

CodeName	Name	Definition
CRDT	Credit	Credit transactions (refund, account, cash service, as defined in the transaction service type).
CRDR	CreditReverse	Reversal of credit transactions (cancellation).

CodeName	Name	Definition
DEBT	Debit	Debit transactions on the cardholder account.
DBTR	DebitReverse	Reversal of debit transactions (cancellation).
DECL	Declined	Declined transactions.
FAIL	Failed	Failed transactions.
RESV	Reservation	Outstanding Reservation transactions.

19.2.3.113 UnitOfMeasure6Code

Definition: Unit of measure of the item purchased.

Type: CodeSet

CodeName	Name	Definition
PIEC	Piece	Standard length of cloth, wallpaper, as an item for sale or amount of a substance.
TONS	Ton	Measure of weight, in Britain 2240lb (long ton)and in the US 2000lb (short ton).
FOOT	Foot	Unit of length equal to 1/3 yard.
GBGA	GBGallon	Unit of volume that is equal to 8 pints.
USGA	USGallon	Unit of volume that is equal to 8 pints.
GRAM	Gram	Unit of measure that is equal to a 1, 000th of a kilo.
INCH	Inch	Measure of length equal to 2.54 cm.
KILO	Kilogram	Basic unit of mass in the SI system, 1000 grams.
PUND	Pound	Unit of weight equal to 0.454 kilograms.
METR	Metre	Unit of length in the metric system, equal to 39.37 inches.
CMET	Centimetre	Unit of measure that is equal to one hundredth of a metre.
MMET	Millimetre	Unit of measure that is a thousandth of one metre.
LITR	Litre	Unit of volume that is equal to a thousand cubic centimetres.
CELI	Centilitre	Unit of volume that is equal to one hundredth of a litre.
MILI	MilliLitre	Unit of volume that is equal to one thousandth of a litre.
GBOU	GBOunce	Unit of weight equal to a sixteenth of a pound.
USOU	USOunce	Unit of weight equal to a sixteenth of a pound.

CodeName	Name	Definition
GBQA	GBQuart	Unit of volume that is equal to 2 pints.
USQA	USQuart	Unit of volume that is equal to 2 pints.
GBPI	GBPint	Unit of volume that is equal to 568 cubic centimetres.
USPI	USPint	Unit of volume that is equal to 473 cubic centimetres.
MILE	Mile	Unit of length equal to 1, 760 yards.
KMET	Kilometre	Unit of measure that is equal to 1, 000 meters.
YARD	Yard	Unit of length equal to 3 feet or 0.9144 metre.
SQKI	SquareKilometre	Measure of a surface, one kilometre by one kilometre.
HECT	Hectare	Unit of measure that is equal to 10, 000 square meters.
ARES	Are	Unit of measure equal to a 100 square meters.
SMET	SquareMetre	Measure of a surface, one metre by one metre.
SCMT	SquareCentimetre	Measure of a surface, one centimetre by one centimetre.
SMIL	SquareMillimetre	Measure of a surface, one millimetre by one millimetre.
SQMI	SquareMile	Measure of a surface, one mile by one mile.
SQYA	SquareYard	Measure of a surface, one yard by one yard.
SQFO	SquareFoot	Measure of a surface, one foot by one foot.
SQIN	SquareInch	Measure of a surface, one inch by one inch.
ACRE	Acre	Unit of measure equal to 4, 840 square yards.
KWHO	KilowattHours	Unit of measure that is equal to the power consumption of one kilowatt during one hour.
DGEU	DieselGallonEquivalent	Amount of fuel alternative equal to one gallon of diesel.
GGEU	GasolineGallonEquivalent	Amount of fuel alternative equal to one gallon of gasoline.

19.2.3.114 UserInterface4Code

Definition: Destination of the message.

Type: CodeSet

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

19.2.3.115 Verification1Code

Definition: Result of the verification.

Type: CodeSet

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.

19.2.4 Date

19.2.4.1 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

19.2.5 DateTime

19.2.5.1 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

19.2.6 IdentifierSet

19.2.6.1 AnyBICDec2014Identifier

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362: 2014 - "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Type: IdentifierSet

Identification scheme: SWIFT; AnyBICIdentifier

Format

pattern [A-Z0-9]{4,4}[A-Z]{2,2}[A-Z0-9]{2,2}([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 and published by the ISO 9362 Registration Authority in the ISO directory of BICs, and consists of eight (8) or eleven (11) contiguous characters.

19.2.6.2 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}

19.2.6.3 IBAN2007Identifier

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: 2007 - "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-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.

19.2.6.4 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}

19.2.7 Indicator

19.2.7.1 PlusOrMinusIndicator

Definition: Indicates a positive or negative value.

Type: Indicator

Meaning When True: Plus

Meaning When False: Minus

19.2.7.2 TrueFalseIndicator

Definition: A flag indicating a True or False value.

Type: Indicator

Meaning When True: True

Meaning When False: False

19.2.8 Quantity

19.2.8.1 DecimalNumber

Definition: Number of objects represented as a decimal number, for example 0.75 or 45.6.

Type: Quantity

Format

totalDigits 18

fractionDigits	17
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19.2.8.2 Number

Definition: Number of objects represented as an integer.

Type: Quantity

Format

totalDigits	18
fractionDigits	0

19.2.8.3 PositiveNumber

Definition: Number of objects represented as a positive integer.

Type: Quantity

Format

minInclusive	1
totalDigits	18
fractionDigits	0

19.2.9 Rate

19.2.9.1 PercentageRate

Definition: Rate expressed as a percentage, that is, in hundredths, for example, 0.7 is 7/10 of a percent, and 7.0 is 7%.

Type: Rate

Format

totalDigits	11
fractionDigits	10
baseValue	100.0

19.2.10 Text

19.2.10.1 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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19.2.10.2 Exact3NumericText

Definition: Specifies a numeric string with an exact length of 3 digits.

Type: Text

Format

pattern	[0-9]{3}
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19.2.10.3 Max1025Text

Definition: Specifies a character string with a maximum length of 1025 characters.

Type: Text

Format

minLength	1
maxLength	1025

19.2.10.4 Max104Text

Definition: Specifies a character string with a maximum length of 104 characters.

Type: Text

Format

minLength	1
maxLength	104

19.2.10.5 Max10Text

Definition: Specifies a character string with a maximum length of 10 characters.

Type: Text

Format

minLength	1
maxLength	10

19.2.10.6 Max140Text

Definition: Specifies a character string with a maximum length of 140 characters.

Type: Text

Format

minLength	1
maxLength	140

19.2.10.7 Max15NumericText

Definition: Specifies a numeric string with a maximum length of 15 digits.

Type: Text

Format

pattern	[0-9]{1,15}
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19.2.10.8 Max16Text

Definition: Specifies a character string with a maximum length of 16 characters.

Type: Text

Format

minLength	1
maxLength	16

19.2.10.9 Max20000Text

Definition: Specifies a character string with a maximum length of 20, 000 characters.

Type: Text

Format

minLength	1
maxLength	20000

19.2.10.10 Max256Text

Definition: Specifies a character string with a maximum length of 256 characters.

Type: Text

Format

minLength	1
maxLength	256

19.2.10.11 Max2NumericText

Definition: Specifies a numeric string with a maximum length of 2 digits.

Type: Text

Format

pattern	[0-9]{1,2}
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19.2.10.12 Max30Text

Definition: Specifies a character string with a maximum length of 30 characters.

Type: Text

Format

maxLength	30
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19.2.10.13 Max350Text

Definition: Specifies a character string with a maximum length of 350 characters.

Type: Text

Format

minLength	1
maxLength	350

19.2.10.14 Max35NumericText

Definition: Specifies a numeric string with a maximum length of 35 digits.

Type: Text

Format

pattern	[0-9]{1,35}
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19.2.10.15 Max35Text

Definition: Specifies a character string with a maximum length of 35 characters.

Type: Text

Format

minLength	1
maxLength	35

19.2.10.16 Max37Text

Definition: Specifies a character string with a maximum length of 37 characters.

Type: Text

Format

minLength	1
maxLength	37

19.2.10.17 Max3Text

Definition: Specifies a character string with a maximum length of 3 characters.

Type: Text

Format

minLength	1
maxLength	3

19.2.10.18 Max45Text

Definition: Specifies a character string with a maximum length of 45 characters.

Type: Text

Format

minLength	1
maxLength	45

19.2.10.19 Max500Text

Definition: Specifies a character string with a maximum length of 500 characters.

Type: Text

Format

minLength	1
maxLength	500

19.2.10.20 Max5NumericText

Definition: Specifies a numeric string with a maximum length of 5 digits.

Type: Text

Format

pattern	[0-9]{1,5}
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19.2.10.21 Max6Text

Definition: Specifies a character string with a maximum length of 6 characters.

Type: Text

Format

minLength	1
maxLength	6

19.2.10.22 Max70Text

Definition: Specifies a character string with a maximum length of 70characters.

Type: Text

Format

minLength	1
maxLength	70

19.2.10.23 Max76Text

Definition: Specifies a character string with a maximum length of 76 characters.

Type: Text

Format

minLength	1
maxLength	76

19.2.10.24 Max8000Text

Definition: Specifies a character string with a maximum length of 8000 characters.

Type: Text

Format

minLength	1
maxLength	8000

19.2.10.25 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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19.2.10.26 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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19.2.10.27 Min3Max4Text

Definition: Specifies a character string with a minimum length of 3 characters, and a maximum length of 4 characters.

Type: Text

Format

minLength	3
maxLength	4

19.2.10.28 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

19.2.10.29 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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19.2.10.30 PhoneNumber

Definition: The collection of information which identifies a specific phone or FAX number as defined by telecom services.

It consists of a "+" followed by the country code (from 1 to 3 characters) then a "-" and finally, any combination of numbers, "(", ")", "+ and "-" (up to 30 characters).

Type: Text

Format

pattern	\+[0-9]{1,3}-[0-9()+\-]{1,30}
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