

ISO 20022

Target2-Securities - Business File Header

## Message Definition Report

Approved by the Cross SEG Harmonisation Group (CSH) on the 18th of June 2024.

This document provides details of the Message Definitions for Target2-Securities - Business File Header.

June 2024

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# 1 Message Set Overview

## Introduction

This document describes the Target2-Securities - Business File Header, developed as part of the Target2-Securities Business Justification (BJ #42).

## 1.1 List of MessageDefinitions

The following table lists all MessageDefinitions described in this book.

MessageDefinition	Definition
head.002.001.01 BusinessFileHeaderV01	<p>The Business File Header contains information about the parties involved in the file exchange, as well as information about the content and its structure.</p> <p>The Business File headers has four major functions:</p> <ul style="list-style-type: none"> <li>- Provides information about the sender of the file.</li> <li>- Identifies the file exchanged: each file must have a unique File Identifier.</li> <li>- Describes the type of message(s) exchanged: by default, the type of messages contained in a file will be ISO 20022 message definitions.</li> <li>- Provides processing information to the receiving party: that would be, for instance, the total number of messages included in the file.</li> </ul> <p>Usage: The Business File Header (head.002) is to be used exclusively in existing implementations, such as the Eurosystem, and will be replaced for general use by the upcoming next version defined as the Business File Envelope (nvlp.002). The Business File Header (head.002) will therefore not be maintained in the future and any new implementation must use the Business File Envelope (nvlp.002).</p>

## 2 **head.002.001.01** **BusinessFileHeaderV01**

### 2.1 **MessageDefinition Functionality**

The Business File Header contains information about the parties involved in the file exchange, as well as information about the content and its structure.

The Business File headers has four major functions:

- Provides information about the sender of the file.
- Identifies the file exchanged: each file must have a unique File Identifier.
- Describes the type of message(s) exchanged: by default, the type of messages contained in a file will be ISO 20022 message definitions.
- Provides processing information to the receiving party: that would be, for instance, the total number of messages included in the file.

Usage: The Business File Header (head.002) is to be used exclusively in existing implementations, such as the Eurosystem, and will be replaced for general use by the upcoming next version defined as the Business File Envelope (nvlp.002). The Business File Header (head.002) will therefore not be maintained in the future and any new implementation must use the Business File Envelope (nvlp.002).

#### Outline

The BusinessFileHeaderV01 MessageDefinition is composed of 2 MessageBuildingBlocks:

- A. PayloadDescription  
Contains information about the payload.
- B. Payload  
File Payload is used to include the exchanged documents within the file structure.

## 2.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <Xchg>	[1..1]			
	<b>PayloadDescription</b> <PyldDesc>	[1..1]			5
	<b>PayloadData</b> <PyldData>	[1..1]			6
	<b>PayloadIdentifier</b> <PyldIdr>	[1..1]	Text		6
	<b>CreationDateAndTime</b> <CreDtAndTm>	[1..1]	DateTime		6
	<b>PossibleDuplicateFlag</b> <PssbDplctFlg>	[0..1]	Indicator		6
	<b>ApplicationSpecifics</b> <ApplSpfcsc>	[0..1]			7
	<b>SystemUser</b> <SysUsr>	[0..1]	Text		7
	<b>Signature</b> <Sgntr>	[0..1]	(External Schema)		7
	<b>TotalNumberOfDocuments</b> <TtlNbOfDocs>	[1..1]	Quantity		7
	<b>PayloadType</b> <PyldTp>	[1..1]	Text		8
	<b>ManifestData</b> <MnfstData>	[0..*]			8
	<b>DocumentType</b> <DocTp>	[1..1]	Text		8
	<b>NumberOfDocuments</b> <NbOfDocs>	[1..1]	Quantity		8
	<b>Payload</b> <Pyld>	[0..*]	(External Schema)		8

## 2.3 Constraints

### C1 OnlySignatureElement

The XML Signature namespace ("http://www.w3.org/2000/09/xmldsig#") allows for different XML elements to be root elements. This means the user has to choose amongst these global elements which one to use as the root element. Only the XML element Signature is allowed.

## 2.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

### 2.4.1 PayloadDescription <PyldDesc>

*Presence:* [1..1]

*Definition:* Contains information about the payload.

**PayloadDescription <PyldDesc>** contains the following **PayloadDescription2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PayloadData</b> <PyldData>	[1..1]			6
	<b>PayloadIdentifier</b> <PyldIdr>	[1..1]	Text		6
	<b>CreationDateAndTime</b> <CreDtAndTm>	[1..1]	DateTime		6
	<b>PossibleDuplicateFlag</b> <PssbDplctFlg>	[0..1]	Indicator		6
	<b>ApplicationSpecifics</b> <ApplSpfcfs>	[0..1]			7
	<b>SystemUser</b> <SysUsr>	[0..1]	Text		7
	<b>Signature</b> <Sgntr>	[0..1]	(External Schema)		7
	<b>TotalNumberOfDocuments</b> <TtlNbOfDocs>	[1..1]	Quantity		7
	<b>PayloadType</b> <PyldTp>	[1..1]	Text		8
	<b>ManifestData</b> <MnfstData>	[0..*]			8
	<b>DocumentType</b> <DocTp>	[1..1]	Text		8
	<b>NumberOfDocuments</b> <NbOfDocs>	[1..1]	Quantity		8

### 2.4.1.1 PayloadData <PyldData>

*Presence:* [1..1]

*Definition:* This component is used to identify the instance of the document exchanged.

**PayloadData <PyldData>** contains the following **PayloadData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>PayloadIdentifier</b> <PyldIdr>	[1..1]	Text		6
	<b>CreationDateAndTime</b> <CreDtAndTm>	[1..1]	DateTime		6
	<b>PossibleDuplicateFlag</b> <PssbDplctFlg>	[0..1]	Indicator		6

#### 2.4.1.1.1 PayloadIdentifier <PyldIdr>

*Presence:* [1..1]

*Definition:* String of characters that uniquely identifies the file, which was delivered by the sender.

*Datatype:* "Max35Text" on page 10

#### 2.4.1.1.2 CreationDateAndTime <CreDtAndTm>

*Presence:* [1..1]

*Definition:* Date and time when the file was created by the sender.

*Datatype:* "ISODatetime" on page 9

#### 2.4.1.1.3 PossibleDuplicateFlag <PssbDplctFlg>

*Presence:* [0..1]

*Definition:* Flag indicating if the file exchanged between the two business applications is possibly a duplicate. If this indicator is not present within the message, please note that the default value would be "False".

*Datatype:* One of the following values must be used (see "TrueFalseIndicator" on page 9):

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

### 2.4.1.2 ApplicationSpecifics <AppISpfcfs>

*Presence:* [0..1]

*Definition:* Contains business information that is considered as necessary by the service provider.

**ApplicationSpecifics <AppISpfcfs>** contains the following **ApplicationSpecifics1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>SystemUser</b> <SysUshr>	[0..1]	Text		7
	<b>Signature</b> <Sgntr>	[0..1]	(External Schema)		7
	<b>TotalNumberOfDocuments</b> <TtINbOfDocs>	[1..1]	Quantity		7

#### 2.4.1.2.1 SystemUser <SysUshr>

*Presence:* [0..1]

*Definition:* A system user is a user account defined in the static data. It represents an individual or an application that interacts with the system administrator (e. g. T2S), triggering the available functions. The set of functions available to each system user stems from the set of privileges for which the system user is grantee. System administrator does not provide any attribute for distinguishing between individuals and applications.

*Datatype:* "Max140Text" on page 10

#### 2.4.1.2.2 Signature <Sgntr>

*Presence:* [0..1]

*Definition:* Contains the digital signature of the Business Entity authorised to sign this Business File.

*Type:* (External Schema)

The W3C XML Schema that specifies following standard signature:

XML Signature Syntax and Processing (Second Edition) W3C Recommendation 10 June 2008

<http://www.w3.org/TR/2008/REC-xmldsig-core-20080610/>.

#### 2.4.1.2.3 TotalNumberOfDocuments <TtINbOfDocs>

*Presence:* [1..1]

*Definition:* Gives the total number of instances (messages) within the file.

*Datatype:* "Number" on page 9

### 2.4.1.3 PayloadType <PyldTp>

*Presence:* [1..1]

*Definition:* Identification of the type of payload.

*Datatype:* "Max256Text" on page 10

### 2.4.1.4 ManifestData <MnfstData>

*Presence:* [0..\*]

*Definition:* Manifest that describes the related items or attachments.

This block is repeated for each different type of item.

**ManifestData <MnfstData>** contains the following **ManifestData2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	<b>DocumentType</b> <DocTp>	[1..1]	Text		8
	<b>NumberOfDocuments</b> <NbOfDocs>	[1..1]	Quantity		8

#### 2.4.1.4.1 DocumentType <DocTp>

*Presence:* [1..1]

*Definition:* Specifies the type of items contained in the document set. An initial list of values can be found in the ISO20022 message type catalogue such as admi, camt, pacs, sese, semt etc. ISO messages.

*Datatype:* "Max35Text" on page 10

#### 2.4.1.4.2 NumberOfDocuments <NbOfDocs>

*Presence:* [1..1]

*Definition:* Gives the number of instances (messages) for each declared type.

*Datatype:* "Number" on page 9

## 2.4.2 Payload <Pyld>

*Presence:* [0..\*]

*Definition:* File Payload is used to include the exchanged documents within the file structure.

*Type:* (External Schema)

Specifies a data structure that allows to include any valid XML Structure (e.g. through an XML Schema). The property namespace is set to 'any'.

The processContents value is 'lax' which according to the above specification and to Iso20022:2013 means: If the item has a uniquely determined declaration available, it must be -valid- with respect to that definition, that is, -validate- if you can, don't worry if you can't, i.e. it MAY be validated or not.

## 3 Message Items Types

### 3.1 Message Datatypes

#### 3.1.1 DateTime

##### 3.1.1.1 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

#### 3.1.2 Indicator

##### 3.1.2.1 TrueFalseIndicator

*Definition:* A flag indicating a True or False value.

*Type:* Indicator

*Meaning When True:* True

*Meaning When False:* False

#### 3.1.3 Quantity

##### 3.1.3.1 Number

*Definition:* Number of objects represented as an integer.

*Type:* Quantity

##### Format

totalDigits	18
fractionDigits	0

## 3.1.4 Text

### 3.1.4.1 Max140Text

*Definition:* Specifies a character string with a maximum length of 140 characters.

*Type:* Text

**Format**

minLength	1
maxLength	140

### 3.1.4.2 Max256Text

*Definition:* Specifies a character string with a maximum length of 256 characters.

*Type:* Text

**Format**

minLength	1
maxLength	256

### 3.1.4.3 Max35Text

*Definition:* Specifies a character string with a maximum length of 35 characters.

*Type:* Text

**Format**

minLength	1
maxLength	35