ISO 20022

Card Payments Exchanges - Terminal Management - ISO - Latest version

Message Definition Report - Part 2

Approved by the Cards and Related Retail Financial Services SEG on 1 February 2021

This document provides details of the Message Definitions for Card Payments Exchanges - Terminal Management - ISO - Latest version.

26 February 2021

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1 Message Set Overview

Introduction

Set of messages that support card-related, terminal management services between a Terminal Management System (TMS) and a Point of Interaction (POI) system.

1.1 List of MessageDefinitions

The following table lists all MessageDefinitions described in this book.

MessageDefinition	Definition
catm.001.001.11 StatusReportV11	The StatusReport message is sent by a POI to inform the master terminal manager (MTM) or the terminal manager (TM) about the status of the acceptor system including the identification of the POI, its components and their installed versions.
catm.002.001.10 ManagementPlanReplacementV10	The ManagementPlanReplacement message is sent by a terminal manager to a POI to set maintenance actions to be performed.
catm.003.001.11 AcceptorConfigurationUpdateV11	The AcceptorConfigurationUpdate message is sent by a TM to a POI to update configurations.
catm.004.001.05 TerminalManagementRejectionV05	The TerminalManagementRejection message is sent by the terminal manager to reject a message request sent by an acceptor, to indicate that the received message could not be processed.
catm.005.001.08 MaintenanceDelegationRequestV08	The MaintenanceDelegationRequest message is sent by a terminal manager to the master terminal manager to request delegation of maintenance functions or maintenance operation on the terminal estate managed by the master terminal manager.
catm.006.001.06 MaintenanceDelegationResponseV06	The MaintenanceDelegationResponse message is sent by the master terminal manager to a terminal manager to provide the outcome of a maintenance delegation request.
catm.007.001.05 CertificateManagementRequestV05	The CertificateManagementRequest message is sent by a POI terminal or any intermediary entity either to a terminal manager acting as a certificate authority for managing X.509 certificate of a public key owned by the initiating party, or for requesting the inclusion or the removal of the POI to a white list of the terminal manager.
catm.008.001.05 CertificateManagementResponseV05	The CertificateManagementResponse is sent by a terminal manager in response to a CertificateManagementRequest to provide the outcome of the requested service.

2 catm.001.001.11 StatusReportV11

2.1 MessageDefinition Functionality

The StatusReport message is sent by a POI to inform the master terminal manager (MTM) or the terminal manager (TM) about the status of the acceptor system including the identification of the POI, its components and their installed versions.

Outline

The StatusReportV11 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the status report.

B. StatusReport

Status of the point of interaction (POI), its components and their installed versions.

C. SecurityTrailer

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

2.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <stsrpt></stsrpt></document>	[11]			
	Header <hdr></hdr>	[11]			7
	DownloadTransfer < DwnldTrf>	[11]	Indicator		8
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		8
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		8
	CreationDateTime < CreDtTm>	[11]	DateTime		8
	InitiatingParty <initgpty></initgpty>	[11]	±		8
	RecipientParty <rcptpty></rcptpty>	[01]	±		9
	Traceability <tracblt></tracblt>	[0*]	±		9
	StatusReport <stsrpt></stsrpt>	[11]			10
	POlldentification <polld></polld>	[11]	±		11
	InitiatingTrigger <initgtrggr></initgtrggr>	[01]			12
	TriggerSource < TrggrSrc>	[11]	CodeSet		12
	SourceIdentification <srcid></srcid>	[11]	Text		13
	TriggerType <trggrtp></trggrtp>	[11]	CodeSet		13
	AdditionalInformation <addtlinf></addtlinf>	[01]	Text		13
	TerminalManagerIdentification < TermnlMgrld>	[11]	±		13
	DataSet <dataset></dataset>	[11]			14
	Identification	[11]	±		15
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		15
	LastSequence <lastseq></lastseq>	[01]	Indicator		15
	Content <cntt></cntt>	[11]			15
	POICapabilities <poicpblties></poicpblties>	[01]	±		16
	POIComponent <poicmpnt></poicmpnt>	[0*]	±		17
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		19
	AttendanceContext <attndnccntxt></attndnccntxt>	[01]	CodeSet		19
	POIDateTime <poidttm></poidttm>	[11]	DateTime		20
	DataSetRequired <datasetreqrd></datasetreqrd>	[0*]			20
	Identification	[11]	±		20
	POIChallenge <poichllng></poichllng>	[01]	Binary		20

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	TMChallenge < TMChllng>	[01]	Binary		21
	SessionKey <ssnkey></ssnkey>	[01]	±		21
	DelegationProof < DlgtnProof>	[01]	Binary		21
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		21
	Event <evt></evt>	[0*]	±		22
	Errors <errs></errs>	[0*]	Text		22
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		22

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.

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 status report.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		8
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		8
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		8
	CreationDateTime <credttm></credttm>	[11]	DateTime		8
	InitiatingParty	[11]	±		8
	RecipientParty <rcptpty></rcptpty>	[01]	±		9
	Traceability <tracblt></tracblt>	[0*]	±		9

2.4.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

2.4.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

2.4.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

2.4.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

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 <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

2.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZon</i> e>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < UTMNrthwrd>	[11]	Text		258

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 392 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

2.4.2 StatusReport <StsRpt>

Presence: [1..1]

Definition: Status of the point of interaction (POI), its components and their installed versions.

StatusReport <StsRpt> contains the following StatusReport11 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	POlldentification <polld></polld>	[11]	±		11
	InitiatingTrigger <initgtrggr></initgtrggr>	[01]			12
	TriggerSource < TrggrSrc>	[11]	CodeSet		12
	SourceIdentification <srcid></srcid>	[11]	Text		13
	TriggerType <trggrtp></trggrtp>	[11]	CodeSet		13
	AdditionalInformation <addtlinf></addtlinf>	[01]	Text		13
	TerminalManagerIdentification <termnimgrid></termnimgrid>	[11]	±		13
	DataSet <dataset></dataset>	[11]			14
	Identification	[11]	±		15
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		15
	LastSequence <lastseq></lastseq>	[01]	Indicator		15
	Content <cntt></cntt>	[11]			15
	POICapabilities <poicpblties></poicpblties>	[01]	±		16
	POIComponent <poicmpnt></poicmpnt>	[0*]	±		17
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		19
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		19
	POIDateTime <poidttm></poidttm>	[11]	DateTime		20
	DataSetRequired < DataSetReqrd>	[0*]			20
	Identification	[11]	±		20
	POIChallenge <poichllng></poichllng>	[01]	Binary		20
	TMChallenge < TMChllng>	[01]	Binary		21
	SessionKey <ssnkey></ssnkey>	[01]	±		21
	DelegationProof < DlgtnProof>	[01]	Binary		21
	ProtectedDelegationProof <prtctddlgtnproof></prtctddlgtnproof>	[01]	±		21
	Event <evt></evt>	[0*]	±		22
	Errors <errs></errs>	[0*]	Text		22

2.4.2.1 POlldentification <POlld>

Presence: [1..1]

Definition: Identification of the point of interaction for terminal management.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

2.4.2.2 InitiatingTrigger <InitgTrggr>

Presence: [0..1]

Definition: Identification of the requestor.

InitiatingTrigger <InitgTrggr> contains the following TriggerInformation2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TriggerSource < TrggrSrc>	[11]	CodeSet		12
	SourceIdentification <srcid></srcid>	[11]	Text		13
	TriggerType <trggrtp></trggrtp>	[11]	CodeSet		13
	AdditionalInformation <addtlinf></addtlinf>	[01]	Text		13

2.4.2.2.1 TriggerSource < TrggrSrc>

Presence: [1..1]

Definition: Actor who trigger the request.

Datatype: "PartyType5Code" on page 500

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACQR	Acquirer	Entity acquiring card transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

2.4.2.2.2 SourceIdentification <SrcId>

Presence: [1..1]

Definition: Identification of the trigger source.

Datatype: "Max35Text" on page 523

2.4.2.2.3 TriggerType <TrggrTp>

Presence: [1..1]

Definition: Identification of the type of the call.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

2.4.2.2.4 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information related to request.

Datatype: "Max70Text" on page 525

2.4.2.3 TerminalManagerIdentification <TermnIMgrId>

Presence: [1..1]

Definition: Identification of the terminal management system (TMS) to contact for the maintenance.

TerminalManagerIdentification <TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

2.4.2.4 DataSet < DataSet >

Presence: [1..1]

Definition: Data related to a status report of a point of interaction (POI).

DataSet < DataSet > contains the following StatusReportDataSetRequest3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		15
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		15
	LastSequence <lastseq></lastseq>	[01]	Indicator		15
	Content <cntt></cntt>	[11]			15
	POICapabilities <poicpblties></poicpblties>	[01]	±		16
	POIComponent <poicmpnt></poicmpnt>	[0*]	±		17
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		19
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		19
	POIDateTime <poidttm></poidttm>	[11]	DateTime		20
	DataSetRequired < DataSetReqrd>	[0*]			20
	Identification	[11]	±		20
	POIChallenge <poichllng></poichllng>	[01]	Binary		20
	TMChallenge < TMChllng>	[01]	Binary		21
	SessionKey <ssnkey></ssnkey>	[01]	±		21
	DelegationProof < DlgtnProof>	[01]	Binary		21
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		21
	Event <evt></evt>	[0*]	±		22
	Errors <errs></errs>	[0*]	Text		22

2.4.2.4.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the data set containing the status report.

Identification <Id> contains the following elements (see "<u>DataSetIdentification9" on page 280</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

2.4.2.4.2 SequenceCounter <SeqCntr>

Presence: [0..1]

Definition: Counter to identify a single data set within the whole transfer.

Datatype: "Max9NumericText" on page 526

2.4.2.4.3 LastSequence <LastSeq>

Presence: [0..1]

Definition: Indication of the last sequence in case of split messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

2.4.2.4.4 Content <Cntt>

Presence: [1..1]

Definition: Content of the status report.

Content <Cntt> contains the following StatusReportContent11 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	POICapabilities <poicpblties></poicpblties>	[01]	±		16
	POIComponent <poicmpnt></poicmpnt>	[0*]	±		17
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		19
	AttendanceContext <attndnccntxt></attndnccntxt>	[01]	CodeSet		19
	POIDateTime <poidttm></poidttm>	[11]	DateTime		20
	DataSetRequired <datasetreqrd></datasetreqrd>	[0*]			20
	Identification	[11]	±		20
	POIChallenge <poichllng></poichllng>	[01]	Binary		20
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		21
	SessionKey <ssnkey></ssnkey>	[01]	±		21
	DelegationProof < DlgtnProof>	[01]	Binary		21
	ProtectedDelegationProof <prtctddlgtnproof></prtctddlgtnproof>	[01]	±		21
	Event <evt></evt>	[0*]	±		22
	Errors <errs></errs>	[0*]	Text		22

2.4.2.4.4.1 POICapabilities < POICpblties>

Presence: [0..1]

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

POICapabilities <POICpbIties> contains the following elements (see <u>"PointOfInteractionCapabilities9"</u> on page 381 for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	CardReadingCapabilities < CardRdngCpblties>	[0*]	CodeSet		382
	CardholderVerificationCapabilities < CrdhldrVrfctnCpblties>	[0*]	CodeSet		383
	PINLengthCapabilities < PINLngthCpblties>	[01]	Quantity		383
	ApprovalCodeLength < ApprvlCdLngth>	[01]	Quantity		383
	MaxScriptLength < MxScrptLngth>	[01]	Quantity		384
	CardCaptureCapable < CardCaptrCpbl>	[01]	Indicator		384
	OnLineCapabilities < OnLineCpblties>	[01]	CodeSet		384
	MessageCapabilities < MsgCpblties>	[0*]			384
	Destination <dstn></dstn>	[1*]	CodeSet		384
	AvailableFormat <avlblfrmt></avlblfrmt>	[0*]	CodeSet		385
	NumberOfLines < NbOfLines>	[01]	Quantity		385
	LineWidth <linewidth></linewidth>	[01]	Quantity		385
	AvailableLanguage < AvlblLang>	[0*]	CodeSet	C6	385

2.4.2.4.4.2 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 <u>"PointOfInteractionComponent12" on page 361</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		363
	SubTypeInformation <subtpinf></subtpinf>	[01]	Text		364
	Identification <id></id>	[11]			365
	ItemNumber < ItmNb>	[01]	Text		365
	ProviderIdentification < Prvdrld>	[01]	Text		365
	Identification <id></id>	[01]	Text		365
	SerialNumber < <i>SrlNb</i> >	[01]	Text		365
	Status <sts></sts>	[01]			365
	VersionNumber < VrsnNb>	[01]	Text		366
	Status < <i>St</i> s>	[01]	CodeSet		366
	ExpiryDate <xprydt></xprydt>	[01]	Date		366
	StandardCompliance < StdCmplc>	[0*]			366
	Identification <id></id>	[11]	Text		366
	Version < Vrsn>	[11]	Text		367
	Issuer <issr></issr>	[11]	Text		367
	Characteristics < Chrtcs>	[01]			367
	Memory < Mmry>	[0*]			368
	Identification <id></id>	[11]	Text		369
	TotalSize < TtlSz>	[11]	Quantity		369
	FreeSize < FreeSz>	[11]	Quantity		369
	Unit < <i>Unit</i> >	[11]	CodeSet		369
	Communication < Com>	[0*]			369
	CommunicationType <comtp></comtp>	[11]	CodeSet		370
	RemoteParty < RmotPty>	[1*]	CodeSet		371
	Active <actv></actv>	[11]	Indicator		371
	Parameters < Params>	[01]	±		371
	PhysicalInterface < PhysIntrfc>	[01]			372
	InterfaceName < IntrfcNm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < <i>UsrNm</i> >	[01]	Text		373

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AccessCode <accscd></accscd>	[01]	Binary		373
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373
	SecurityAccessModules < SctyAccsMdls>	[01]	Quantity		374
	SubscriberIdentityModules <sbcbrldntymdls></sbcbrldntymdls>	[01]	Quantity		374
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		374
	Assessment < Assmnt>	[0*]			374
	Type < <i>Tp</i> >	[11]	CodeSet		375
	Assigner <assgnr></assgnr>	[1*]	Text		375
	DeliveryDate < DlvryDt>	[01]	DateTime		375
	ExpirationDate <xprtndt></xprtndt>	[01]	DateTime		375
	Number <nb></nb>	[11]	Text		375
	Package < <i>Packg</i> >	[0*]			376
	PackageIdentification < PackgId>	[01]	±		376
	PackageLength < PackgLngth>	[01]	Quantity		376
	OffsetStart < OffsetStart>	[01]	Quantity		376
	OffsetEnd < OffsetEnd>	[01]	Quantity		377
	PackageBlock < PackgBlck>	[0*]			377
	Identification	[11]	Text		377
	Value < <i>Val</i> >	[01]	Binary		377
	ProtectedValue < PrtctdVal>	[01]	±		377
	Type < <i>Tp</i> >	[01]	Text		378

2.4.2.4.4.3 POIGroupIdentification <POIGrpId>

Presence: [0..*]

Definition: Identifier assigned to a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 523

2.4.2.4.4.4 AttendanceContext < AttndncCntxt>

Presence: [0..1]

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

Datatype: "AttendanceContext1Code" on page 476

CodeName	Name Definition	
ATTD	Attended	Attended payment, with an attendant.

CodeName	Name	Definition
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.

2.4.2.4.4.5 POIDateTime < POIDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

2.4.2.4.4.6 DataSetRequired <DataSetReqrd>

Presence: [0..*]

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

DataSetRequired <DataSetReqrd> contains the following DataSetRequest3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		20
	POIChallenge <poichllng></poichllng>	[01]	Binary		20
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		21
	SessionKey <ssnkey></ssnkey>	[01]	±		21
	DelegationProof < DlgtnProof>	[01]	Binary		21
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		21

2.4.2.4.4.6.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the required data set.

Identification <Id> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

2.4.2.4.4.6.2 POIChallenge < POIChling>

Presence: [0..1]

Definition: Point of interaction challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

2.4.2.4.4.6.3 TMChallenge <TMChling>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

2.4.2.4.4.6.4 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 <u>"CryptographicKey16" on page 437</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		438
	AdditionalIdentification < Addtlld>	[01]	Binary		438
	Name <nm></nm>	[01]	Text		438
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		439
	ItemNumber	[01]	Text		439
	Version < Vrsn>	[11]	Text		439
	Type <tp></tp>	[01]	CodeSet		439
	Function < Fctn>	[0*]	CodeSet		440
	ActivationDate <actvtndt></actvtndt>	[01]	DateTime		440
	DeactivationDate < DeactvtnDt>	[01]	DateTime		440
	KeyValue < KeyVal>	[01]	±		441
	KeyCheckValue <keychckval></keychckval>	[01]	Binary		441
	AdditionalManagementInformation < AddtlMgmtInf>	[0*]			441
	Name < <i>Nm</i> >	[11]	Text		441
	Value < <i>Val></i>	[01]	Text		441

2.4.2.4.4.6.5 DelegationProof <DIgtnProof>

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 467

2.4.2.4.4.6.6 ProtectedDelegationProof < PrtctdDlgtnProof>

Presence: [0..1]

Definition: Protected proof of delegation.

ProtectedDelegationProof <PrtctdDlgtnProof> contains the following elements (see "ContentInformationType30" on page 430 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType <cntttp></cntttp>	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData>	[01]	±		434

2.4.2.4.4.7 Event <Evt>

Presence: [0..*]

Definition: Result of an individual terminal management action by the point of interaction. **Event <Evt>** contains the following elements (see "TMSEvent9" on page 394 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TimeStamp < TmStmp>	[11]	DateTime		394
	Result < Rslt>	[11]	CodeSet		394
	ActionIdentification < Actnld>	[11]			395
	ActionType <actntp></actntp>	[11]	CodeSet		395
	DataSetIdentification < DataSetId>	[01]	±		396
	AdditionalErrorInformation < AddtlErrInf>	[01]	Text		396
	TerminalManagerIdentification < TermnIMgrId>	[01]	Text		396
	DeviceResponse < DvcRspn>	[01]	±		396

2.4.2.4.4.8 Errors < Errs>

Presence: [0..*]

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

Datatype: "Max140Text" on page 522

2.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData >	[01]	±		436

3 catm.002.001.10 ManagementPlanReplacementV10

3.1 MessageDefinition Functionality

The ManagementPlanReplacement message is sent by a terminal manager to a POI to set maintenance actions to be performed.

Outline

The ManagementPlanReplacementV10 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the management plan.

B. ManagementPlan

Sequence of terminal maintenance actions to be performed by a point of interaction (POI).

C. SecurityTrailer

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

3.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <mgmtplanrplcmnt></mgmtplanrplcmnt></document>	[11]			
	Header <hdr></hdr>	[11]			27
	DownloadTransfer < DwnldTrf>	[11]	Indicator		27
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		27
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		28
	CreationDateTime < CreDtTm>	[11]	DateTime		28
	InitiatingParty <initgpty></initgpty>	[11]	±		28
	RecipientParty <rcptpty></rcptpty>	[01]	±		28
	Traceability < Tracblt>	[0*]	±		29
	ManagementPlan < MgmtPlan>	[11]			29
	POlldentification <polld></polld>	[01]	±		31
	TerminalManagerIdentification < TermnlMgrId>	[11]	±		31
	DataSet <dataset></dataset>	[11]			32
	Identification	[11]	±		34
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		34
	LastSequence <lastseq></lastseq>	[01]	Indicator		34
	Content <cntt></cntt>	[01]			34
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		36
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		36
	Action <actn></actn>	[1*]			36
	Type <tp></tp>	[11]	CodeSet		37
	RemoteAccess < RmotAccs>	[01]	±		38
	Key <key></key>	[0*]			39
	Keyldentification <keyld></keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seq nb=""></seq>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40
	TerminalManagerIdentification < TermnlMgrId>	[01]	±		41

Or	MessageElement/BuildingBlock< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		41
	TMSProtocolVersion <tmsprtcolvrsn></tmsprtcolvrsn>	[01]	Text		41
	DataSetIdentification < DataSetId>	[01]	±		41
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		42
	DelegationScopeIdentification < DlgtnScpld>	[01]	Text		43
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		43
	DelegationProof < DlgtnProof>	[01]	Binary		43
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		43
	Trigger < Trggr>	[11]	CodeSet		44
	AdditionalProcess <addtlprc></addtlprc>	[0*]	CodeSet		44
	ReTry <retry></retry>	[01]	±		44
	TimeCondition <tmcond></tmcond>	[01]	±		45
	TMChallenge < TMChllng>	[01]	Binary		45
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		45
	ErrorAction < ErrActn>	[0*]	±		45
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		46
	MessageItem <msgitm></msgitm>	[0*]	±		46
	DeviceRequest < DvcReq>	[01]	±		46
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		49

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.

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 management plan.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		27
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		27
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		28
	CreationDateTime <credttm></credttm>	[11]	DateTime		28
	InitiatingParty <initgpty></initgpty>	[11]	±		28
	RecipientParty <rcptpty></rcptpty>	[01]	±		28
	Traceability <tracblt></tracblt>	[0*]	±		29

3.4.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

3.4.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

3.4.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

3.4.1.4 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

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 "GenericIdentification176" on page 258

for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

3.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type < <i>Tp</i> >	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZon</i> e>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

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 392 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

3.4.2 ManagementPlan < MgmtPlan>

Presence: [1..1]

Definition: Sequence of terminal maintenance actions to be performed by a point of interaction (POI).

ManagementPlan < MgmtPlan> contains the following ManagementPlan10 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	POlldentification <polld></polld>	[01]	±		31
	TerminalManagerIdentification <termnlmgrid></termnlmgrid>	[11]	±		31
	DataSet <dataset></dataset>	[11]			32
	Identification	[11]	±		34
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		34
	LastSequence <lastseq></lastseq>	[01]	Indicator		34
	Content <cntt></cntt>	[01]			34
	TMChallenge < TMChllng>	[01]	Binary		36
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		36
	Action <actn></actn>	[1*]			36
	Type < <i>Tp></i>	[11]	CodeSet		37
	RemoteAccess < RmotAccs>	[01]	±		38
	Key <key></key>	[0*]			39
	Keyldentification <keyld></keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40
	TerminalManagerIdentification <termnimgrid></termnimgrid>	[01]	±		41
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		41
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		41
	DataSetIdentification < DataSetId>	[01]	±		41
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		42
	DelegationScopeIdentification < DlgtnScpId>	[01]	Text		43
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		43
	DelegationProof < DlgtnProof>	[01]	Binary		43
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		43
	Trigger < Trggr>	[11]	CodeSet		44
	AdditionalProcess <addtlprc></addtlprc>	[0*]	CodeSet		44
	ReTry <retry></retry>	[01]	±		44

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TimeCondition < TmCond>	[01]	±		45
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		45
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		45
	ErrorAction < ErrActn>	[0*]	±		45
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		46
	MessageItem < Msgltm>	[0*]	±		46
	DeviceRequest < DvcReq>	[01]	±		46

3.4.2.1 POlldentification <POlld>

Presence: [0..1]

Definition: Identification of the point of interaction (POI) for terminal management.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type <tp></tp>	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

3.4.2.2 TerminalManagerIdentification <TermnIMgrId>

Presence: [1..1]

Definition: Identification of the terminal management system (TMS) sending the management plan.

TerminalManagerIdentification < TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

3.4.2.3 DataSet < DataSet>

Presence: [1..1]

Definition: Data set related to the sequence of actions to be performed by a point of interaction (POI).

DataSet < DataSet > contains the following TerminalManagementDataSet31 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		34
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		34
	LastSequence <lastseq></lastseq>	[01]	Indicator		34
	Content <cntt></cntt>	[01]			34
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		36
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		36
	Action <actn></actn>	[1*]			36
	Type <tp></tp>	[11]	CodeSet		37
	RemoteAccess < RmotAccs>	[01]	±		38
	Key <key></key>	[0*]			39
	Keyldentification <keyld></keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40
	TerminalManagerIdentification < TermnlMgrId>	[01]	±		41
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		41
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		41
	DataSetIdentification < DataSetId>	[01]	±		41
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		42
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		43
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		43
	DelegationProof < DlgtnProof>	[01]	Binary		43
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		43
	Trigger < Trggr>	[11]	CodeSet		44
	AdditionalProcess <addtlprc></addtlprc>	[0*]	CodeSet		44
	ReTry <retry></retry>	[01]	±		44
	TimeCondition < TmCond>	[01]	±		45
	TMChallenge <tmchllng></tmchllng>	[01]	Binary		45
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		45

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ErrorAction < ErrActn>	[0*]	±		45
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		46
	MessageItem < Msgltm>	[0*]	±		46
	DeviceRequest < DvcReq>	[01]	±		46

3.4.2.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the data set containing the management plan.

Identification <Id> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

3.4.2.3.2 SequenceCounter <SeqCntr>

Presence: [0..1]

Definition: Counter to identify a single data set within the whole transfer.

Datatype: "Max9NumericText" on page 526

3.4.2.3.3 LastSequence <LastSeq>

Presence: [0..1]

Definition: Indication of the last sequence in case of split messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

• Meaning When False: False

3.4.2.3.4 Content < Cntt>

Presence: [0..1]

Definition: Content of the management plan.

Content <Cntt> contains the following ManagementPlanContent10 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	TMChallenge < TMChllng>	[01]	Binary		36
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		36
	Action <actn></actn>	[1*]			36
	Type <tp></tp>	[11]	CodeSet		37
	RemoteAccess < RmotAccs>	[01]	±		38
	Key <key></key>	[0*]			39
	Keyldentification <keyld></keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40
	TerminalManagerIdentification < TermnIMgrId>	[01]	±		41
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		41
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		41
	DataSetIdentification < DataSetId>	[01]	±		41
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		42
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		43
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		43
	DelegationProof < DlgtnProof>	[01]	Binary		43
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		43
	Trigger <trggr></trggr>	[11]	CodeSet		44
	AdditionalProcess < AddtlPrc>	[0*]	CodeSet		44
	ReTry <retry></retry>	[01]	±		44
	TimeCondition < TmCond>	[01]	±		45
	TMChallenge < TMChllng>	[01]	Binary		45
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		45
	ErrorAction < ErrActn>	[0*]	±		45
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		46
	MessageItem <msgitm></msgitm>	[0*]	±		46
	DeviceRequest < DvcReq>	[01]	±		46

3.4.2.3.4.1 TMChallenge < TMChling>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

3.4.2.3.4.2 KeyEnciphermentCertificate <KeyNcphrmntCert>

Presence: [0..*]

Definition: Certificate chain of an asymmetric encryption keys for the encryption of temporary transport

key of the key to inject.

Datatype: "Max10KBinary" on page 466

3.4.2.3.4.3 Action <Actn>

Presence: [1..*]

Definition: Terminal management action to be performed by the point of interaction (POI).

Action <Actn> contains the following TMSAction10 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		37
	RemoteAccess < RmotAccs>	[01]	±		38
	Key <key></key>	[0*]			39
	Keyldentification <keyld></keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40
	TerminalManagerIdentification <termnlmgrid></termnlmgrid>	[01]	±		41
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		41
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		41
	DataSetIdentification < DataSetId>	[01]	±		41
	ComponentType < CmpntTp>	[0*]	CodeSet		42
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		43
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		43
	DelegationProof <dlgtnproof></dlgtnproof>	[01]	Binary		43
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		43
	Trigger <trggr></trggr>	[11]	CodeSet		44
	AdditionalProcess < AddtlPrc>	[0*]	CodeSet		44
	ReTry <retry></retry>	[01]	±		44
	TimeCondition <tmcond></tmcond>	[01]	±		45
	TMChallenge < TMChllng>	[01]	Binary		45
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		45
	ErrorAction <erractn></erractn>	[0*]	±		45
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		46
	MessageItem <msgitm></msgitm>	[0*]	±		46
	DeviceRequest < DvcReq>	[01]	±		46

3.4.2.3.4.3.1 Type <Tp>

Presence: [1..1]

Definition: Types of action to be performed by a point of interaction (POI).

Datatype: "TerminalManagementAction5Code" on page 512

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.
DEVR	DeviceRequest	Request to execute a device request.

3.4.2.3.4.3.2 RemoteAccess < RmotAccs>

Presence: [0..1]

Definition: Host access information.

RemoteAccess <RmotAccs> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Address < Adr >	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate < CIntCert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

3.4.2.3.4.3.3 Key <Key>

Presence: [0..*]

Definition: Cryptographic key used to communicate with the host.

Key < Key > contains the following KEKIdentifier5 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		39
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		39
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		39
	DerivationIdentification < DerivtnId>	[01]	Binary		39
	Type <tp></tp>	[01]	CodeSet		39
	Function <fctn></fctn>	[0*]	CodeSet		40

3.4.2.3.4.3.3.1 Keyldentification <Keyld>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 522

3.4.2.3.4.3.3.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 522

3.4.2.3.4.3.3.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 519

3.4.2.3.4.3.3.4 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 468

3.4.2.3.4.3.3.5 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 486

CodeName	Name	Definition
AES2	AES128	AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by

CodeName	Name	Definition
		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).

3.4.2.3.4.3.3.6 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 493

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).

CodeName	Name	Definition
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.

3.4.2.3.4.3.4 TerminalManagerIdentification < TermnIMgrId>

Presence: [0..1]

Definition: Identification of the master terminal manager or the terminal manager with which the POI has to perform the action.

TerminalManagerIdentification < TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

3.4.2.3.4.3.5 TMSProtocol <TMSPrtcol>

Presence: [0..1]

Definition: TMS protocol to use for performing the maintenance action.

Datatype: "Max35Text" on page 523

3.4.2.3.4.3.6 TMSProtocolVersion <TMSPrtcolVrsn>

Presence: [0..1]

Definition: Version of the TMS protocol to use to perform the maintenance action.

Datatype: "Max35Text" on page 523

3.4.2.3.4.3.7 DataSetIdentification < DataSetId>

Presence: [0..1]

Definition: Data set on which the action has to be performed.

DataSetIdentification <DataSetId> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

3.4.2.3.4.3.8 ComponentType <CmpntTp>

Presence: [0..*]

Definition: Type of POI components to send in a status report.

Datatype: "DataSetCategory17Code" on page 488

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).

CodeName	Name	Definition
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.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

3.4.2.3.4.3.9 DelegationScopeldentification <DlgtnScpld>

Presence: [0..1]

Definition: Identification of the delegation scope assigned by the MTM.

Datatype: "Max35Text" on page 523

3.4.2.3.4.3.10 DelegationScopeDefinition < DIgtnScpDef>

Presence: [0..1]

Definition: This element contains all information relevant to the DelegationScopeIdentification. The

format of this element is out of scope of this definition.

Datatype: "Max3000Binary" on page 466

3.4.2.3.4.3.11 DelegationProof <DIgtnProof>

Presence: [0..1]

Definition: This element contains the necessary information to secure the management of the

Delegation. The format of this element is out of scope of this definition.

Datatype: "Max5000Binary" on page 467

3.4.2.3.4.3.12 ProtectedDelegationProof < PrtctdDlgtnProof>

Presence: [0..1]

Definition: Protected proof of delegation.

ProtectedDelegationProof <PrtctdDigtnProof> contains the following elements (see "ContentInformationType30" on page 430 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

3.4.2.3.4.3.13 Trigger < Trggr>

Presence: [1..1]

Definition: Event on which the action has to be activated by the point of interaction (POI).

Datatype: "TerminalManagementActionTrigger1Code" on page 514

CodeName	Name	Definition
DATE	DateTime	Date and time trigger the terminal management action.
HOST	HostEvent	Acquirer triggers the terminal management action.
MANU	Manual	Acceptor triggers the terminal management action.
SALE	SaleEvent	Sale system triggers the terminal management action.

3.4.2.3.4.3.14 AdditionalProcess <AddtlPrc>

Presence: [0..*]

Definition: Additional process to perform before starting or after completing the action by the point of interaction (POI).

Datatype: "TerminalManagementAdditionalProcess1Code" on page 514

CodeName	Name	Definition
MANC	ManualConfirmation	Manual confirmation of the merchant before the terminal management action.
RCNC	Reconciliation	Acquirer reconciliation to be performed before the terminal management action.
RSRT	RestartSystem	Restart the system after performing the terminal management action.

3.4.2.3.4.3.15 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of the action fails.

ReTry < ReTry > contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

3.4.2.3.4.3.16 TimeCondition <TmCond>

Presence: [0..1]

Definition: Date and time the action has to be performed.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming5" on page 461</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	WaitingTime < <i>WtgTm</i> >	[01]	Text		461
	StartTime < <i>StartTm</i> >	[01]	DateTime		461
	EndTime < <i>EndTm</i> >	[01]	DateTime		461
	Period < <i>Prd</i> >	[01]	Text		461
	MaximumNumber < MaxNb>	[01]	Quantity		461
	UnitOfTime < UnitOfTm>	[01]	CodeSet		461

3.4.2.3.4.3.17 TMChallenge <TMChling>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

3.4.2.3.4.3.18 KeyEnciphermentCertificate <KeyNcphrmntCert>

Presence: [0..*]

Definition: Certificate chain for the encryption of temporary transport key of the key to inject.

Datatype: "Max10KBinary" on page 466

3.4.2.3.4.3.19 ErrorAction < ErrActn>

Presence: [0..*]

Definition: Action to perform in case of error on the related action in progress.

ErrorAction < ErrActn > contains the following elements (see "ErrorAction5" on page 398 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionResult <actnrslt></actnrslt>	[1*]	CodeSet		398
	ActionToProcess < ActnToPrc>	[11]	CodeSet		399

3.4.2.3.4.3.20 AdditionalInformation <AddtlInf>

Presence: [0..*]

Definition: Additional information about the maintenance action.

Datatype: "Max3000Binary" on page 466

3.4.2.3.4.3.21 MessageItem <MsgItm>

Presence: [0..*]

Definition: Configuration of a message item.

MessageItem <MsgItm> contains the following elements (see "MessageItemCondition1" on page 380

for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ItemIdentification < ItmId>	[11]	Text		381
	Condition < Cond>	[11]	CodeSet		381
	Value < Val>	[0*]	Text		381

3.4.2.3.4.3.22 DeviceRequest < DvcReq>

Presence: [0..1]

Definition: Information related to a device request of the POI.

46

DeviceRequest <DvcReq> contains the following elements (see <u>"DeviceRequest5" on page 136</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Environment < Envt>	[01]	±		139
	Context <cntxt></cntxt>	[01]	±		145
	ServiceContent <svccntt></svccntt>	[11]	CodeSet		148
	DisplayRequest < DispReq>	[01]			148
	DisplayOutput < <i>DispOutpt</i> >	[1*]	±		148
	InputRequest < InptReq>	[01]			149
	DisplayOutput < <i>DispOutpt</i> >	[01]	±		150
	InputData	[11]			151
	DeviceType < <i>DvcTp</i> >	[11]	CodeSet		152
	InformationQualifier < InfQlfr>	[11]	CodeSet		152
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		153
	NotifyCardInputFlag <ntfycardinptflg></ntfycardinptflg>	[11]	Indicator		154
	MaximumInputTime < MaxInptTm>	[01]	Quantity		154
	InputText <inpttxt></inpttxt>	[01]	±		154
	ImmediateResponseFlag	[01]	Indicator		155
	WaitUserValidationFlag < WaitUsrVldtnFlg>	[01]	Indicator		155
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		155
	GlobalCorrectionFlag < GblCrrctnFlg>	[01]	Indicator		156
	DisableCancelFlag < DsblCclFlg>	[01]	Indicator		156
	DisableCorrectFlag < DsblCrrctFlg>	[01]	Indicator		156
	DisableValidFlag < <i>DsblVldFlg</i> >	[01]	Indicator		156
	MenuBackFlag <i><menubckflg></menubckflg></i>	[01]	Indicator		156
	PrintRequest < PrtReq>	[01]			157
	DocumentQualifier < DocQlfr>	[11]	CodeSet		157
	ResponseMode < RspnMd>	[11]	CodeSet		157
	IntegratedPrintFlag <intgrtdprtflg></intgrtdprtflg>	[01]	Indicator		158
	RequiredSignatureFlag < ReqrdSgntrFlg>	[01]	Indicator		158
	OutputContent < OutptCntt>	[11]	±		158
	PlayResourceRequest < PlayRsrcReq>	[01]			159
	ResponseMode < RspnMd>	[01]	CodeSet		160

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr.	Page
	ResourceAction < RsrcActn>	[11]	CodeSet		160
	SoundVolume <soundvol></soundvol>	[01]	Rate		160
	DisplayResolution < DispRsltn>	[01]	Text		160
	Resource <rsrc></rsrc>	[01]			160
	ResourceType <rsrctp></rsrctp>	[11]	CodeSet		161
	ResourceFormat <rsrcfrmt></rsrcfrmt>	[01]	CodeSet		161
	Language <i><lang></lang></i>	[01]	CodeSet	C6	161
	ResourceReference < RsrcRef >	[01]	Text		161
	TimingSlot <tmgslot></tmgslot>	[01]	CodeSet		162
	SecureInputRequest <scrinptreq></scrinptreq>	[01]			162
	PINRequestType <pinreqtp></pinreqtp>	[11]	CodeSet		162
	PINVerificationMethod <pinvrfctnmtd></pinvrfctnmtd>	[01]	Text		163
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		163
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		163
	CardholderPIN < CrdhldrPIN>	[01]			163
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		163
	PINFormat <pinfrmt></pinfrmt>	[11]	CodeSet		164
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		164
	InitialisationCardReaderRequest < InitlstnCardRdrReq>	[01]			164
	WarmResetFlag < WarmRstFlg>	[01]	Indicator		165
	ForceEntryMode < ForceNtryMd>	[0*]	CodeSet		165
	LeaveCardFlag <leavcardflg></leavcardflg>	[01]	Indicator		166
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		166
	DisplayOutput < DispOutpt>	[01]	±		166
	CardReaderAPDURequest < CardRdrAPDUReq>	[01]			167
	Class <clss></clss>	[11]	Binary		167
	Instruction < Instr>	[11]	Binary		167
	Parameter1 < Param1>	[11]	Binary		167
	Parameter2 < Param2 >	[11]	Binary		167
	Data < Data >	[01]	Binary		167
	ExpectedLength < XpctdLngth>	[01]	Binary		167
	I .	1	1	1	1

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	PowerOffCardReaderRequest < PwrOffCardRdrReq>	[01]			168
	PowerOffMaximumWaitingTime < PwrOffMaxWtgTm>	[01]	Quantity		168
	DisplayOutput < DispOutpt>	[01]	±		168
	TransmissionRequest < TrnsmssnReq>	[01]			169
	DestinationAddress < DstnAdr>	[11]	±		169
	MaximumTransmissionTime < MaxTrnsmssnTm>	[11]	Quantity		170
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		170
	MessageToSend < MsgToSnd>	[11]	Binary		170
	InputNotification <inptntfctn></inptntfctn>	[01]			170
	ExchangeIdentification <xchgid></xchgid>	[11]	Text		170
	OutputContent < OutptCntt>	[11]	±		171
	SupplementaryData <splmtrydata></splmtrydata>	[0*]	±	C5	171

3.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435 for details)</u>

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData >	[01]	±		436

4 catm.003.001.11 AcceptorConfigurationUpdateV11

4.1 MessageDefinition Functionality

The AcceptorConfigurationUpdate message is sent by a TM to a POI to update configurations.

Outline

The AcceptorConfigurationUpdateV11 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Set of characteristics related to the transfer of the acceptor parameters.

B. AcceptorConfiguration

Acceptor configuration to be downloaded from the terminal management system.

C. SecurityTrailer

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

4.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <accptrcfgtnupd></accptrcfgtnupd></document>	[11]			
	Header <hdr></hdr>	[11]			52
	DownloadTransfer < DwnldTrf>	[11]	Indicator		52
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		52
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		52
	CreationDateTime < CreDtTm>	[11]	DateTime		53
	InitiatingParty <initgpty></initgpty>	[11]	±		53
	RecipientParty <rcptpty></rcptpty>	[01]	±		53
	Traceability < Tracblt>	[0*]	±		54
	AcceptorConfiguration <accptrcfgtn></accptrcfgtn>	[11]			54
	TerminalManagerIdentification <termnlmgrld></termnlmgrld>	[11]	±		55
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		56
	DataSet <dataset></dataset>	[1*]			56
	Identification	[11]	±		57
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		57
	LastSequence <lastseq></lastseq>	[01]	Indicator		58
	POlldentification <polld></polld>	[0*]	±		58
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		58
	Content <cntt></cntt>	[11]			58
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		59
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		59
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		60
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		63
	MerchantParameters < MrchntParams>	[0*]	±		63
	TerminalParameters < TermnlParams>	[0*]	±		64
	ApplicationParameters < ApplParams>	[0*]	±		65
	HostCommunicationParameters <hstcomparams></hstcomparams>	[0*]	±		66
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		67
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		68
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		68

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		69

4.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

4.3.1 Header <Hdr>

Presence: [1..1]

Definition: Set of characteristics related to the transfer of the acceptor parameters.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		52
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		52
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		52
	CreationDateTime <credttm></credttm>	[11]	DateTime		53
	InitiatingParty <initgpty></initgpty>	[11]	±		53
	RecipientParty <rcptpty></rcptpty>	[01]	±		53
	Traceability <tracblt></tracblt>	[0*]	±		54

4.3.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

4.3.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

4.3.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

4.3.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

4.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

4.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward <utmnrthwrd></utmnrthwrd>	[11]	Text		258

4.3.1.7 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 392 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

4.3.2 AcceptorConfiguration <AccptrCfgtn>

Presence: [1..1]

Definition: Acceptor configuration to be downloaded from the terminal management system.

AcceptorConfiguration <AccptrCfgtn> contains the following AcceptorConfiguration11 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TerminalManagerIdentification <termnimgrid></termnimgrid>	[11]	±		55
	POIGroupIdentification <poigrpid></poigrpid>	[0*]	Text		56
	DataSet <dataset></dataset>	[1*]			56
	Identification	[11]	±		57
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		57
	LastSequence <lastseq></lastseq>	[01]	Indicator		58
	POlldentification <polld></polld>	[0*]	±		58
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		58
	Content <cntt></cntt>	[11]			58
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		59
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		59
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		60
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		63
	MerchantParameters < MrchntParams>	[0*]	±		63
	TerminalParameters < TermnlParams>	[0*]	±		64
	ApplicationParameters <applparams></applparams>	[0*]	±		65
	HostCommunicationParameters < HstComParams>	[0*]	±		66
	SecurityParameters < SctyParams>	[0*]	±		67
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		68
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		68

4.3.2.1 TerminalManagerIdentification <TermnIMgrId>

Presence: [1..1]

Definition: Identification of the terminal management system (TMS) sending the acceptor parameters.

TerminalManagerIdentification < TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

4.3.2.2 POIGroupIdentification <POIGrpId>

Presence: [0..*]

Definition: Identifier assigned to a set of POI terminals performing some categories of transactions.

Datatype: "Max35Text" on page 523

4.3.2.3 DataSet < DataSet>

Presence: [1..*]

Definition: Data set containing the acceptor parameters of a point of interaction (POI).

DataSet < DataSet> contains the following AcceptorConfigurationDataSet3 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		57
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		57
	LastSequence <lastseq></lastseq>	[01]	Indicator		58
	POlldentification <polld></polld>	[0*]	±		58
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		58
	Content <cntt></cntt>	[11]			58
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		59
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		59
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		60
	ServiceProviderParameters <svcprvdrparams></svcprvdrparams>	[0*]	±		63
	MerchantParameters < MrchntParams>	[0*]	±		63
	TerminalParameters < TermnlParams>	[0*]	±		64
	ApplicationParameters <applparams></applparams>	[0*]	±		65
	HostCommunicationParameters <hstcomparams></hstcomparams>	[0*]	±		66
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		67
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		68
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		68

4.3.2.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the data set transferred.

Identification <Id> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

4.3.2.3.2 SequenceCounter <SeqCntr>

Presence: [0..1]

Definition: Counter to identify a single data set within the whole transfer.

Datatype: "Max9NumericText" on page 526

4.3.2.3.3 LastSequence <LastSeq>

Presence: [0..1]

Definition: Indication of the last sequence in case of split messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

4.3.2.3.4 POlldentification < POlld>

Presence: [0..*]

Definition: Identification of the point of interactions involved by the configuration data set.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

4.3.2.3.5 ConfigurationScope < CfgtnScp>

Presence: [0..1]

Definition: Scope of the configuration contained in the data set.

Datatype: "PartyType15Code" on page 498

CodeName	Name	Definition
PGRP	POIGroup	Configuration to apply to a subset of the whole POI system.
PSYS	POISystem	Configuration to apply to the whole POI system.
PSNG	SinglePOI	Configuration to apply to a single POI terminal.

4.3.2.3.6 Content <Cntt>

Presence: [1..1]

Definition: Content of the acceptor parameters.

Content <Cntt> contains the following AcceptorConfigurationContent11 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		59
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		59
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		60
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		63
	MerchantParameters < MrchntParams>	[0*]	±		63
	TerminalParameters <termnlparams></termnlparams>	[0*]	±		64
	ApplicationParameters <applparams></applparams>	[0*]	±		65
	HostCommunicationParameters < HstComParams>	[0*]	±		66
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		67
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		68
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		68

4.3.2.3.6.1 ReplaceConfiguration < RplcCfgtn>

Presence: [0..1]

Definition: True if the whole configuration related to the terminal manager has to be replaced by the configuration included in the message content.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

4.3.2.3.6.2 TMSProtocolParameters <TMSPrtcolParams>

Presence: [0..*]

Definition: Configuration parameters of the TMS protocol between a POI and a terminal manager.

TMSProtocolParameters <TMSPrtcolParams> contains the following elements (see "TMSProtocolParameters6" on page 242 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		243
	TerminalManagerIdentification < TermnIMgrId>	[11]	±		243
	ProtocolVersion < PrtcolVrsn>	[01]	Text		244
	MaintenanceService < MntncSvc>	[1*]	CodeSet		244
	Version < Vrsn>	[11]	Text		245
	ApplicationIdentification < ApplId>	[0*]	Text		245
	HostIdentification < HstId>	[11]	Text		245
	POlldentification < POlld>	[01]	Text		245
	InitiatingPartyIdentification < InitgPtyId>	[01]	Text		245
	RecipientPartyIdentification < RcptPtyId>	[01]	Text		245
	FileTransfer < FileTrf>	[01]	Indicator		245
	MessageItem < MsgItm>	[0*]	±		245
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		246

4.3.2.3.6.3 AcquirerProtocolParameters <AcqrrPrtcolParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to an acquirer protocol.

AcquirerProtocolParameters <AcqrrPrtcolParams> contains the following elements (see "AcquirerProtocolParameters15" on page 220 for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		223
	AcquirerIdentification < Acqrrld>	[1*]	±		223
	Version < Vrsn>	[11]	Text		223
	ApplicationIdentification < ApplId>	[0*]	Text		223
	Host <hst></hst>	[0*]			224
	HostIdentification < HstId>	[11]	Text		224
	MessageToSend < MsgToSnd>	[0*]	CodeSet		224
	ProtocolVersion < PrtcolVrsn>	[01]	Text		225
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		225
	OnLineTransaction < OnLineTx>	[01]			225
	FinancialCapture < FinCaptr>	[11]	CodeSet		226
	BatchTransfer < BtchTrf>	[01]			226
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		227
	MaximumNumber < MaxNb>	[01]	Quantity		227
	MaximumAmount < MaxAmt>	[01]	Amount		228
	ReTry < <i>ReTry</i> >	[01]	±		228
	TimeCondition < TmCond>	[01]	±		228
	CompletionExchange < CmpltnXchg>	[01]			228
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		229
	MaximumNumber < MaxNb>	[01]	Quantity		229
	MaximumAmount < MaxAmt>	[01]	Amount		230
	ReTry < <i>ReTry</i> >	[01]	±		230
	TimeCondition < TmCond>	[01]	±		230
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		230
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		230
	CancellationExchange < CxlXchg>	[01]	CodeSet		231
	OffLineTransaction < OffLineTx>	[01]			231
	FinancialCapture < FinCaptr>	[11]	CodeSet		232
	BatchTransfer < BtchTrf>	[01]			232
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		233

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MaximumNumber < MaxNb>	[01]	Quantity		233
	MaximumAmount < MaxAmt>	[01]	Amount		234
	ReTry < <i>ReTry</i> >	[01]	±		234
	TimeCondition < TmCond>	[01]	±		234
	CompletionExchange < CmpltnXchg>	[01]			234
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		235
	MaximumNumber < MaxNb>	[01]	Quantity		235
	MaximumAmount < MaxAmt>	[01]	Amount		236
	ReTry < <i>ReTry</i> >	[01]	±		236
	TimeCondition < TmCond>	[01]	±		236
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		236
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		236
	CancellationExchange < CxlXchg>	[01]	CodeSet		237
	ReconciliationExchange < RcncltnXchg>	[01]			237
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		237
	MaximumNumber < MaxNb>	[01]	Quantity		238
	MaximumAmount < MaxAmt>	[01]	Amount		238
	ReTry <retry></retry>	[01]	±		238
	TimeCondition < TmCond>	[01]	±		238
	ReconciliationByAcquirer < RcncltnByAcqrr>	[01]	Indicator		239
	TotalsPerCurrency < TtlsPerCcy>	[01]	Indicator		239
	SplitTotals <spltttls></spltttls>	[01]	Indicator		239
	SplitTotalCriteria < SpltTtlCrit>	[0*]	CodeSet		239
	CompletionAdviceMandated < CmpltnAdvcMndtd>	[01]	Indicator		240
	AmountQualifierForReservation < AmtQlfrForRsvatn>	[0*]	CodeSet		240
	ReconciliationError < ReneltnErr>	[01]	Indicator		240
	CardDataVerification < CardDataVrfctn>	[01]	Indicator		241
	NotifyOffLineCancellation < NtfyOffLineCxl>	[01]	Indicator		241
	BatchTransferContent < BtchTrfCntt>	[0*]	CodeSet		241
	FileTransferBatch < FileTrfBtch>	[01]	Indicator		241
	BatchDigitalSignature < BtchDgtlSgntr>	[01]	Indicator		241

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MessageItem < MsgItm>	[0*]	±		242
	ProtectCardData < PrtctCardData>	[11]	Indicator		242
	PrivateCardData < PrvtCardData >	[01]	Indicator		242
	MandatorySecurityTrailer < MndtrySctyTrlr>	[01]	Indicator		242

4.3.2.3.6.4 ServiceProviderParameters <SvcPrvdrParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to a service provider.

ServiceProviderParameters <SvcPrvdrParams> contains the following elements (see

<u>"ServiceProviderParameters2" on page 217</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		217
	ServiceProviderIdentification < SvcPrvdrId>	[1*]	±		218
	Version < Vrsn>	[11]	Text		218
	ApplicationIdentification < ApplId>	[0*]	Text		218
	Host <hst></hst>	[0*]			218
	HostIdentification < HstId>	[11]	Text		218
	MessageToSend < MsgToSnd>	[0*]	CodeSet		219
	ProtocolVersion < PrtcolVrsn>	[01]	Text		219
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		219
	NonFinancialActionSupported < NonFinActnSpprtd>	[0*]	CodeSet		220

4.3.2.3.6.5 MerchantParameters < MrchntParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to the merchant.

MerchantParameters < MrchntParams> contains the following elements (see "MerchantConfigurationParameters6" on page 250 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		250
	MerchantIdentification < MrchntId>	[01]	Text		250
	Version < Vrsn>	[01]	Text		250
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		251
	Proxy < <i>Prxy</i> >	[01]			251
	Type < <i>Tp</i> >	[11]	CodeSet		251
	Access <accs></accs>	[11]	±		251
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		252
	OffsetStart < OffsetStart>	[01]	Quantity		252
	OffsetEnd < OffsetEnd>	[01]	Quantity		252
	OtherParameters < OthrParams>	[01]	Binary		252

4.3.2.3.6.6 TerminalParameters < TermnlParams>

Presence: [0..*]

Definition: Manufacturer configuration parameters of the point of interaction.

TerminalParameters <TermnlParams> contains the following elements (see "PaymentTerminalParameters8" on page 246 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		247
	VendorIdentification < Vndrld>	[01]	Text		247
	Version < Vrsn>	[01]	Text		247
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		247
	ClockSynchronisation < ClckSynctn>	[01]			247
	POITimeZone < POITmZone>	[11]	Text		247
	SynchronisationServer < SynctnSvr>	[0*]	±		248
	Delay < <i>Dely</i> >	[01]	Time		248
	TimeZoneLine < TmZoneLine>	[0*]	Text		248
	LocalDateTime < LclDtTm>	[0*]			248
	FromDateTime < FrDtTm>	[01]	DateTime		249
	ToDateTime < ToDtTm>	[01]	DateTime		249
	UTCOffset <utcoffset></utcoffset>	[11]	Quantity		249
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		249
	OffsetStart < OffsetStart>	[01]	Quantity		249
	OffsetEnd < OffsetEnd>	[01]	Quantity		249
	OtherParameters < OthrParams>	[01]	Binary		249

4.3.2.3.6.7 ApplicationParameters < ApplParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to a payment application of the point of interaction.

ApplicationParameters <ApplParams> contains the following elements (see <u>ApplicationParameters11"</u> on page 215 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		215
	ApplicationIdentification <applid></applid>	[11]	Text		216
	Version < Vrsn>	[01]	Text		216
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		216
	ParametersLength < ParamsLngth>	[01]	Quantity		216
	OffsetStart < OffsetStart>	[01]	Quantity		216
	OffsetEnd < OffsetEnd>	[01]	Quantity		216
	Parameters < Params>	[0*]	Binary		216
	EncryptedParameters < NcrptdParams>	[01]	±		217

4.3.2.3.6.8 HostCommunicationParameters < HstComParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to the communication with an acquirer host or a terminal manager host.

HostCommunicationParameters <HstComParams> contains the following elements (see "HostCommunicationParameter6" on page 201 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		201
	HostIdentification < HstId>	[11]	Text		202
	Address < Adr >	[01]	±		202
	Key <key></key>	[0*]			202
	Keyldentification < Keyld>	[11]	Text		203
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		203
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		203
	DerivationIdentification < DerivtnId>	[01]	Binary		203
	Type <i><tp></tp></i>	[01]	CodeSet		203
	Function <fctn></fctn>	[0*]	CodeSet		204
	NetworkServiceProvider <ntwksvcprvdr></ntwksvcprvdr>	[01]	±		205
	PhysicalInterface < PhysIntrfc>	[01]			205
	InterfaceName < IntrfcNm>	[11]	Text		206
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		206
	UserName < <i>UsrNm</i> >	[01]	Text		206
	AccessCode <accscd></accscd>	[01]	Binary		206
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		207
	AdditionalParameters < AddtlParams>	[01]	Binary		207

4.3.2.3.6.9 SecurityParameters <SctyParams>

Presence: [0..*]

Definition: Point of interaction parameters related to the security of software application and application protocol.

SecurityParameters <SctyParams> contains the following elements (see <u>"SecurityParameters14" on page 213</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		213
	Version < Vrsn>	[11]	Text		214
	POIChallenge < POIChllng>	[01]	Binary		214
	TMChallenge < TMChllng>	[01]	Binary		214
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		214

4.3.2.3.6.10 SaleToPOIParameters <SaleToPOIParams>

Presence: [0..*]

Definition: Parameters dedicated to protocols between a sale system and the POI.

SaleToPOIParameters <SaleToPOIParams> contains the following elements (see

"SaleToPOIProtocolParameter2" on page 211 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		211
	MerchantIdentification < MrchntId>	[01]			211
	CommonName < CmonNm>	[11]	Text		212
	Address < Adr>	[01]	Text		212
	CountryCode < CtryCd>	[11]	CodeSet		212
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		212
	RegisteredIdentifier < RegdIdr>	[11]	Text		212
	Version < Vrsn>	[11]	Text		212
	HostIdentification <hstid></hstid>	[11]	Text		213
	MerchantPOIIdentification < MrchntPOIId>	[01]	Text		213
	SaleIdentification <saleid></saleid>	[01]	Text		213
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		213

4.3.2.3.6.11 TerminalPackage <TermnlPackg>

Presence: [0..*]

Definition: Group of software packages to transfer to a group of POIComponent of the POI System.

TerminalPackage <TermnlPackg> contains the following elements (see <u>"TerminalPackageType3" on page 207</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	POIComponentIdentification < POICmpntId>	[0*]			207
	ItemNumber <itmnb></itmnb>	[01]	Text		208
	ProviderIdentification < Prvdrld>	[01]	Text		208
	Identification <id></id>	[01]	Text		208
	SerialNumber < SrlNb>	[01]	Text		208
	Package < <i>Packg</i> >	[1*]			208
	PackageIdentification < Packgld>	[01]	±		209
	PackageLength < PackgLngth>	[01]	Quantity		209
	OffsetStart < OffsetStart>	[01]	Quantity		209
	OffsetEnd < OffsetEnd>	[01]	Quantity		209
	PackageBlock < PackgBlck>	[0*]			210
	Identification <id></id>	[11]	Text		210
	Value < <i>Val</i> >	[01]	Binary		210
	ProtectedValue < PrtctdVal>	[01]	±		210
	Type < <i>Tp</i> >	[01]	Text		211

4.3.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData>	[01]	±		436

5 catm.004.001.05 TerminalManagementRejectionV05

5.1 MessageDefinition Functionality

The TerminalManagementRejection message is sent by the terminal manager to reject a message request sent by an acceptor, to indicate that the received message could not be processed.

Outline

The TerminalManagementRejectionV05 MessageDefinition is composed of 2 MessageBuildingBlocks:

A. Header

Rejection message management information.

B. Reject

Information related to the reject.

5.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <termnlmgmtrjctn></termnlmgmtrjctn></document>	[11]			
	Header <hdr></hdr>	[11]			71
	DownloadTransfer < DwnldTrf>	[11]	Indicator		71
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		71
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		71
	CreationDateTime < CreDtTm>	[11]	DateTime		71
	InitiatingParty <initgpty></initgpty>	[11]	±		71
	RecipientParty <rcptpty></rcptpty>	[01]	±		72
	Traceability < Tracblt>	[0*]	±		72
	Reject <rjct></rjct>	[11]			73
	RejectReason <rjctrsn></rjctrsn>	[11]	CodeSet		73
	AdditionalInformation <addtlinf></addtlinf>	[01]	Text		74
	MessageInError <msginerr></msginerr>	[01]	Binary		74

5.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

5.3.1 Header <Hdr>

Presence: [1..1]

Definition: Rejection message management information.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		71
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		71
	ExchangeIdentification <xchgld></xchgld>	[11]	Quantity		71
	CreationDateTime <credttm></credttm>	[11]	DateTime		71
	InitiatingParty <initgpty></initgpty>	[11]	±		71
	RecipientParty <rcptpty></rcptpty>	[01]	±		72
	Traceability <tracblt></tracblt>	[0*]	±		72

5.3.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

5.3.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

5.3.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

5.3.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

5.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

5.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZone</i> >	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < UTMNrthwrd>	[11]	Text		258

5.3.1.7 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 392 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

5.3.2 Reject <Rjct>

Presence: [1..1]

Definition: Information related to the reject.

Reject <Rjct> contains the following AcceptorRejection3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RejectReason <rjctrsn></rjctrsn>	[11]	CodeSet		73
	AdditionalInformation <addtlinf></addtlinf>	[01]	Text		74
	MessageInError <msginerr></msginerr>	[01]	Binary		74

5.3.2.1 RejectReason < RjctRsn>

Presence: [1..1]

Definition: Reject reason of the request or the advice.

Datatype: "RejectReason2Code" on page 505

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.
VERS	ProtocolVersion	Version of the protocol couldn't be supported by the recipient.

CodeName	Name	Definition
MSGT		Type of message the recipient receives is unknow or unsupported.

5.3.2.2 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information related to the reject of the exchange.

Datatype: "Max500Text" on page 524

5.3.2.3 MessageInError < MsgInErr>

Presence: [0..1]

Definition: Original request that caused the recipient party to reject it.

Datatype: "Max100KBinary" on page 465

6 catm.005.001.08 MaintenanceDelegationRequestV08

6.1 MessageDefinition Functionality

The MaintenanceDelegationRequest message is sent by a terminal manager to the master terminal manager to request delegation of maintenance functions or maintenance operation on the terminal estate managed by the master terminal manager.

Outline

The MaintenanceDelegationRequestV08 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Information related to the protocol management.

B. MaintenanceDelegationRequest
 Information related to the request of maintenance delegations.

C. SecurityTrailer

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

6.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <mntncdlgtnreq></mntncdlgtnreq></document>	[11]			
	Header <hdr></hdr>	[01]			78
	DownloadTransfer < DwnldTrf>	[11]	Indicator		78
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		78
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		78
	CreationDateTime < CreDtTm>	[11]	DateTime		79
	InitiatingParty <initgpty></initgpty>	[11]	±		79
	RecipientParty <rcptpty></rcptpty>	[01]	±		79
	Traceability <tracblt></tracblt>	[0*]	±		80
	MaintenanceDelegationRequest < MntncDlgtnReq>	[11]			80
	TMIdentification <tmid></tmid>	[11]	±		82
	MasterTMIdentification < MstrTMId>	[01]	±		82
	RequestedDelegation <reqddlgtn></reqddlgtn>	[1*]			83
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		85
	MaintenanceService < MntncSvc>	[1*]	CodeSet		85
	PartialDelegation < PrtlDlgtn>	[01]	Indicator		86
	POISubset <poisubset></poisubset>	[0*]	Text		86
	DelegatedAction <dlgtdactn></dlgtdactn>	[01]	±		86
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		88
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		88
	Certificate <cert></cert>	[0*]	Binary		88
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		88
	SymmetricKey <smmtrckey></smmtrckey>	[0*]			88
	Keyldentification <keyld></keyld>	[11]	Text		89
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		89
	SequenceNumber <seq nb=""></seq>	[01]	Quantity		89
	DerivationIdentification < DerivtnId>	[01]	Binary		89
	Type <tp></tp>	[01]	CodeSet		89
	Function <fctn></fctn>	[0*]	CodeSet		90
	ParameterDataSet <paramdataset></paramdataset>	[01]			91

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		91
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		92
	LastSequence <lastseq></lastseq>	[01]	Indicator		92
	POlldentification <polld></polld>	[0*]	±		92
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		92
	Content <cntt></cntt>	[11]			93
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		93
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		93
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		94
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		97
	MerchantParameters < MrchntParams>	[0*]	±		97
	TerminalParameters < TermnlParams >	[0*]	±		98
	ApplicationParameters <applparams></applparams>	[0*]	±		99
	HostCommunicationParameters < HstComParams>	[0*]	±		100
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		101
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		102
	TerminalPackage < TermnlPackg>	[0*]	±		102
	SecurityTrailer <sctytrlr></sctytrlr>	[11]	±		103

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: [0..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		78
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		78
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		78
	CreationDateTime < CreDtTm>	[11]	DateTime		79
	InitiatingParty <initgpty></initgpty>	[11]	±		79
	RecipientParty <rcptpty></rcptpty>	[01]	±		79
	Traceability <tracblt></tracblt>	[0*]	±		80

6.4.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

6.4.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

6.4.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

6.4.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

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 "GenericIdentification176" on page 258

for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

6.4.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward <utmnrthwrd></utmnrthwrd>	[11]	Text		258

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 392 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

6.4.2 MaintenanceDelegationRequest < MntncDlgtnReq>

Presence: [1..1]

Definition: Information related to the request of maintenance delegations.

MaintenanceDelegationRequest <MntncDlgtnReq> contains the following MaintenanceDelegationRequest8 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	TMIdentification < TMId>	[11]	±		82
	MasterTMIdentification < MstrTMId>	[01]	±		82
	RequestedDelegation < ReqdDlgtn>	[1*]			83
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		85
	MaintenanceService < MntncSvc>	[1*]	CodeSet		85
	PartialDelegation < PrtlDlgtn>	[01]	Indicator		86
	POISubset <poisubset></poisubset>	[0*]	Text		86
	DelegatedAction < DlgtdActn>	[01]	±		86
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		88
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		88
	Certificate <cert></cert>	[0*]	Binary		88
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		88
	SymmetricKey <smmtrckey></smmtrckey>	[0*]			88
	Keyldentification <keyld></keyld>	[11]	Text		89
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		89
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		89
	DerivationIdentification < DerivtnId>	[01]	Binary		89
	Type <tp></tp>	[01]	CodeSet		89
	Function <fctn></fctn>	[0*]	CodeSet		90
	ParameterDataSet <paramdataset></paramdataset>	[01]			91
	Identification	[11]	±		91
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		92
	LastSequence <lastseq></lastseq>	[01]	Indicator		92
	POlldentification <polld></polld>	[0*]	±		92
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		92
	Content <cntt></cntt>	[11]			93
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		93
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		93
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		94
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		97

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MerchantParameters < MrchntParams>	[0*]	±		97
	TerminalParameters < TermnlParams >	[0*]	±		98
	ApplicationParameters <applparams></applparams>	[0*]	±		99
	HostCommunicationParameters < HstComParams>	[0*]	±		100
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		101
	SaleToPOlParameters <saletopolparams></saletopolparams>	[0*]	±		102
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		102

6.4.2.1 TMIdentification <TMId>

Presence: [1..1]

Definition: Terminal manager identification.

TMIdentification <TMId> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

6.4.2.2 MasterTMIdentification < MstrTMId>

Presence: [0..1]

Definition: Master terminal manager identification.

MasterTMIdentification <MstrTMId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

6.4.2.3 RequestedDelegation < ReqdDlgtn>

Presence: [1..*]

Definition: Information on the delegation of a maintenance action.

RequestedDelegation <ReqdDlgtn> contains the following MaintenanceDelegation13 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		85
	MaintenanceService < MntncSvc>	[1*]	CodeSet		85
	PartialDelegation <prtidlgtn></prtidlgtn>	[01]	Indicator		86
	POISubset <poisubset></poisubset>	[0*]	Text		86
	DelegatedAction <dlgtdactn></dlgtdactn>	[01]	±		86
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		88
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		88
	Certificate <cert></cert>	[0*]	Binary		88
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		88
	SymmetricKey <smmtrckey></smmtrckey>	[0*]			88
	Keyldentification <keyld></keyld>	[11]	Text		89
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		89
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		89
	DerivationIdentification < DerivtnId>	[01]	Binary		89
	Type < <i>Tp></i>	[01]	CodeSet		89
	Function <fctn></fctn>	[0*]	CodeSet		90
	ParameterDataSet < ParamDataSet>	[01]			91
	Identification	[11]	±		91
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		92
	LastSequence <lastseq></lastseq>	[01]	Indicator		92
	POlldentification <polld></polld>	[0*]	±		92
	ConfigurationScope < CfgtnScp>	[01]	CodeSet		92
	Content <cntt></cntt>	[11]			93
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		93
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		93
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		94
	ServiceProviderParameters < SvcPrvdrParams>	[0*]	±		97
	MerchantParameters < MrchntParams>	[0*]	±		97
	TerminalParameters < TermnlParams>	[0*]	±		98
	ApplicationParameters <applparams></applparams>	[0*]	±		99
	HostCommunicationParameters < HstComParams>	[0*]	±		100

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		101
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		102
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		102

6.4.2.3.1 DelegationType <DlgtnTp>

Presence: [1..1]

Definition: Type of delegation action.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

6.4.2.3.2 MaintenanceService < MntncSvc>

Presence: [1..*]

Definition: Maintenance service to be delegated.

Datatype: "DataSetCategory16Code" on page 487

CodeName	Name	Definition
ACQP	AcquirerProtocolParameters	Configuration parameters of the payment acquirer protocol.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
APSB	ApplicationParametersSubsetCreation	Creation of a subset of the configuration parameters of an application.
KDWL	KeyDownload	Download of cryptographic keys with the related information.
KMGT	KeyManagement	Activate, deactivate or revoke loaded cryptographic keys.
RPRT	Reporting	Reporting on activity, status and error of a point of interaction.
SWPK	SoftwareModule	Software module.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).

CodeName	Name	Definition
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
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.
RPFL	ReportFile	Report file generated by the POI.
CONF	ConfigurationFile	Configuration file relevant for the POI.
SPRP	ServiceProviderParameters	Service Provider specific parameters for the point of interaction (POI) system.

6.4.2.3.3 PartialDelegation < PrtIDIgtn>

Presence: [0..1]

Definition: Flag to indicate that the delegated maintenance must be performed on a subset of the terminal estate.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

6.4.2.3.4 POISubset < POISubset >

Presence: [0..*]

Definition: Subset of the terminal estate for the delegated actions, for instance for pilot or key deactivation). The subset may be expressed as a list of POI or terminal estate subset identifier.

Datatype: "Max35Text" on page 523

6.4.2.3.5 DelegatedAction <DlgtdActn>

Presence: [0..1]

Definition: Information for the MTM to build or include delegated actions in the management plan of the POI.

DelegatedAction <DigtdActn> contains the following elements (see "MaintenanceDelegateAction7" on page 261 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PeriodicAction < PrdcActn>	[01]	Indicator		263
	TMRemoteAccess < TMRmotAccs>	[01]	±		263
	TMSProtocol < TMSPrtcol>	[01]	Text		263
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		264
	DataSetIdentification < DataSetId>	[01]	±		264
	ReTry < <i>ReTry</i> >	[01]	±		264
	AdditionalInformation < AddtlInf>	[0*]	Binary		264
	Action <actn></actn>	[0*]			264
	Type < <i>Tp</i> >	[11]	CodeSet		265
	RemoteAccess < RmotAccs>	[01]	±		266
	Key <key></key>	[0*]			267
	Keyldentification < Keyld>	[11]	Text		267
	KeyVersion < KeyVrsn>	[11]	Text		267
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		267
	DerivationIdentification < DerivtnId>	[01]	Binary		267
	Type < <i>Tp</i> >	[01]	CodeSet		267
	Function < Fctn>	[0*]	CodeSet		268
	TerminalManagerIdentification < TermnIMgrId>	[01]	±		269
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		269
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		269
	DataSetIdentification < DataSetId>	[01]	±		269
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		270
	DelegationScopeIdentification < DIgtnScpId>	[01]	Text		271
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		271
	DelegationProof < DlgtnProof>	[01]	Binary		271
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		271
	Trigger < Trggr>	[11]	CodeSet		272
	AdditionalProcess < AddtlPrc>	[0*]	CodeSet		272
	ReTry <retry></retry>	[01]	±		272
	TimeCondition < TmCond>	[01]	±		273
	1		1	1	1

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	TMChallenge < TMChllng>	[01]	Binary		273
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		273
	ErrorAction < ErrActn>	[0*]	±		273
	AdditionalInformation < AddtlInf>	[0*]	Binary		274
	MessageItem < MsgItm>	[0*]	±		274
	DeviceRequest < DvcReq >	[01]	±		274

6.4.2.3.6 DelegationScopeIdentification <DIgtnScpId>

Presence: [0..1]

Definition: Identification of the delegation scope assigned by the MTM.

Datatype: "Max35Text" on page 523

6.4.2.3.7 DelegationScopeDefinition < DIgtnScpDef>

Presence: [0..1]

Definition: This element contains all information relevant to the DelegationScopeldentification. The

format of this element is out of scope of this definition.

Datatype: "Max3000Binary" on page 466

6.4.2.3.8 Certificate < Cert>

Presence: [0..*]

Definition: Certificate path of the terminal manager.

Datatype: "Max10KBinary" on page 466

6.4.2.3.9 POlldentificationAssociation < POlldAssoctn>

Presence: [0..*]

Definition: Association of the TM identifier and the MTM identifier of a POI.

POlldentificationAssociation < POlldAssoctn> contains the following elements (see

"MaintenanceIdentificationAssociation1" on page 392 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MasterTMIdentification < MstrTMId>	[11]	Text		392
	TMIdentification < TMId>	[11]	Text		392

6.4.2.3.10 SymmetricKey <SmmtrcKey>

Presence: [0..*]

Definition: Identification of the key to manage or to download.

SymmetricKey <SmmtrcKey> contains the following KEKIdentifier5 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification <keyld></keyld>	[11]	Text		89
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		89
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		89
	DerivationIdentification < DerivtnId>	[01]	Binary		89
	Type <tp></tp>	[01]	CodeSet		89
	Function <fctn></fctn>	[0*]	CodeSet		90

6.4.2.3.10.1 Keyldentification <Keyld>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 522

6.4.2.3.10.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 522

6.4.2.3.10.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 519

6.4.2.3.10.4 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 468

6.4.2.3.10.5 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 486

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).

CodeName	Name	Definition
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).

6.4.2.3.10.6 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 493

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).

CodeName	Name	Definition
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

6.4.2.3.11 ParameterDataSet < ParamDataSet >

Presence: [0..1]

Definition: Configuration parameters of the terminal manager to be sent by the MTM.

ParameterDataSet <ParamDataSet> contains the following AcceptorConfigurationDataSet3 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		91
	SequenceCounter <seqcntr></seqcntr>	[01]	Text		92
	LastSequence <lastseq></lastseq>	[01]	Indicator		92
	POlldentification <polld></polld>	[0*]	±		92
	ConfigurationScope <cfgtnscp></cfgtnscp>	[01]	CodeSet		92
	Content <cntt></cntt>	[11]			93
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		93
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		93
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		94
	ServiceProviderParameters <svcprvdrparams></svcprvdrparams>	[0*]	±		97
	MerchantParameters < MrchntParams>	[0*]	±		97
	TerminalParameters < TermnlParams>	[0*]	±		98
	ApplicationParameters <applparams></applparams>	[0*]	±		99
	HostCommunicationParameters <hstcomparams></hstcomparams>	[0*]	±		100
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		101
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		102
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		102

6.4.2.3.11.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the data set transferred.

Identification <Id> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

6.4.2.3.11.2 SequenceCounter <SeqCntr>

Presence: [0..1]

Definition: Counter to identify a single data set within the whole transfer.

Datatype: "Max9NumericText" on page 526

6.4.2.3.11.3 LastSequence <LastSeq>

Presence: [0..1]

Definition: Indication of the last sequence in case of split messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

6.4.2.3.11.4 POlldentification <POlld>

Presence: [0..*]

Definition: Identification of the point of interactions involved by the configuration data set.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

6.4.2.3.11.5 ConfigurationScope < CfgtnScp>

Presence: [0..1]

Definition: Scope of the configuration contained in the data set.

Datatype: "PartyType15Code" on page 498

CodeName	Name	Definition
PGRP	POIGroup	Configuration to apply to a subset of the whole POI system.
PSYS	POISystem	Configuration to apply to the whole POI system.
PSNG	SinglePOI	Configuration to apply to a single POI terminal.

6.4.2.3.11.6 Content <Cntt>

Presence: [1..1]

Definition: Content of the acceptor parameters.

Content <Cntt> contains the following AcceptorConfigurationContent11 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ReplaceConfiguration < RplcCfgtn>	[01]	Indicator		93
	TMSProtocolParameters < TMSPrtcolParams>	[0*]	±		93
	AcquirerProtocolParameters <acqrrprtcolparams></acqrrprtcolparams>	[0*]	±		94
	ServiceProviderParameters <svcprvdrparams></svcprvdrparams>	[0*]	±		97
	MerchantParameters < MrchntParams>	[0*]	±		97
	TerminalParameters < TermnlParams>	[0*]	±		98
	ApplicationParameters <applparams></applparams>	[0*]	±		99
	HostCommunicationParameters <hstcomparams></hstcomparams>	[0*]	±		100
	SecurityParameters <sctyparams></sctyparams>	[0*]	±		101
	SaleToPOIParameters <saletopoiparams></saletopoiparams>	[0*]	±		102
	TerminalPackage <termnlpackg></termnlpackg>	[0*]	±		102

6.4.2.3.11.6.1 ReplaceConfiguration < RplcCfgtn>

Presence: [0..1]

Definition: True if the whole configuration related to the terminal manager has to be replaced by the configuration included in the message content.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

6.4.2.3.11.6.2 TMSProtocolParameters <TMSPrtcolParams>

Presence: [0..*]

Definition: Configuration parameters of the TMS protocol between a POI and a terminal manager.

TMSProtocolParameters <TMSPrtcolParams> contains the following elements (see "TMSProtocolParameters6" on page 242 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		243
	TerminalManagerIdentification < TermnIMgrId>	[11]	±		243
	ProtocolVersion < PrtcolVrsn>	[01]	Text		244
	MaintenanceService < MntncSvc>	[1*]	CodeSet		244
	Version < Vrsn>	[11]	Text		245
	ApplicationIdentification < ApplId>	[0*]	Text		245
	HostIdentification < HstId>	[11]	Text		245
	POlldentification <polld></polld>	[01]	Text		245
	InitiatingPartyIdentification <initgptyid></initgptyid>	[01]	Text		245
	RecipientPartyIdentification < RcptPtyId>	[01]	Text		245
	FileTransfer < FileTrf>	[01]	Indicator		245
	MessageItem < MsgItm>	[0*]	±		245
	ExternallyTypeSupported < XtrnlyTpSpprtd>	[0*]	Text		246

6.4.2.3.11.6.3 AcquirerProtocolParameters <AcqrrPrtcolParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to an acquirer protocol.

AcquirerProtocolParameters <AcqrrPrtcolParams> contains the following elements (see "AcquirerProtocolParameters15" on page 220 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		223
	AcquirerIdentification < Acqrrld>	[1*]	±		223
	Version < Vrsn>	[11]	Text		223
	ApplicationIdentification <applid></applid>	[0*]	Text		223
	Host <hst></hst>	[0*]			224
	HostIdentification < HstId>	[11]	Text		224
	MessageToSend < MsgToSnd>	[0*]	CodeSet		224
	ProtocolVersion < PrtcolVrsn>	[01]	Text		225
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		225
	OnLineTransaction < OnLineTx>	[01]			225
	FinancialCapture < FinCaptr>	[11]	CodeSet		226
	BatchTransfer < BtchTrf>	[01]			226
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		227
	MaximumNumber < MaxNb>	[01]	Quantity		227
	MaximumAmount < MaxAmt>	[01]	Amount		228
	ReTry < <i>ReTry</i> >	[01]	±		228
	TimeCondition < TmCond>	[01]	±		228
	CompletionExchange < CmpltnXchg>	[01]			228
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		229
	MaximumNumber < MaxNb>	[01]	Quantity		229
	MaximumAmount < MaxAmt>	[01]	Amount		230
	ReTry < <i>ReTry</i> >	[01]	±		230
	TimeCondition < TmCond>	[01]	±		230
	ExchangeFailed < <i>XchgFaild</i> >	[01]	Indicator		230
	ExchangeDeclined <xchgdclnd></xchgdclnd>	[01]	Indicator		230
	CancellationExchange < CxlXchg>	[01]	CodeSet		231
	OffLineTransaction < OffLineTx>	[01]			231
	FinancialCapture < FinCaptr>	[11]	CodeSet		232
	BatchTransfer < BtchTrf>	[01]			232
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		233
		1	1	1	1

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MaximumNumber < MaxNb>	[01]	Quantity		233
	MaximumAmount < MaxAmt>	[01]	Amount		234
	ReTry < <i>ReTry</i> >	[01]	±		234
	TimeCondition < TmCond>	[01]	±		234
	CompletionExchange < CmpltnXchg>	[01]			234
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		235
	MaximumNumber < MaxNb>	[01]	Quantity		235
	MaximumAmount < MaxAmt>	[01]	Amount		236
	ReTry < <i>ReTry</i> >	[01]	±		236
	TimeCondition < TmCond>	[01]	±		236
	ExchangeFailed <i><xchgfaild></xchgfaild></i>	[01]	Indicator		236
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		236
	CancellationExchange < CxlXchg>	[01]	CodeSet		237
	ReconciliationExchange < RcncltnXchg>	[01]			237
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		237
	MaximumNumber < MaxNb>	[01]	Quantity		238
	MaximumAmount < MaxAmt>	[01]	Amount		238
	ReTry < <i>ReTry</i> >	[01]	±		238
	TimeCondition < TmCond>	[01]	±		238
	ReconciliationByAcquirer < RcncltnByAcqrr>	[01]	Indicator		239
	TotalsPerCurrency < TtlsPerCcy>	[01]	Indicator		239
	SplitTotals <spltttls></spltttls>	[01]	Indicator		239
	SplitTotalCriteria <spltttlcrit></spltttlcrit>	[0*]	CodeSet		239
	CompletionAdviceMandated < CmpltnAdvcMndtd>	[01]	Indicator		240
	AmountQualifierForReservation < AmtQlfrForRsvatn>	[0*]	CodeSet		240
	ReconciliationError < ReneltnErr>	[01]	Indicator		240
	CardDataVerification < CardDataVrfctn>	[01]	Indicator		241
	NotifyOffLineCancellation < NtfyOffLineCxl>	[01]	Indicator		241
	BatchTransferContent < BtchTrfCntt>	[0*]	CodeSet		241
	FileTransferBatch < FileTrfBtch>	[01]	Indicator		241
	BatchDigitalSignature < BtchDgtlSgntr>	[01]	Indicator		241

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MessageItem < MsgItm>	[0*]	±		242
	ProtectCardData < PrtctCardData>	[11]	Indicator		242
	PrivateCardData < PrvtCardData >	[01]	Indicator		242
	MandatorySecurityTrailer < MndtrySctyTrlr>	[01]	Indicator		242

6.4.2.3.11.6.4 ServiceProviderParameters < SvcPrvdrParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to a service provider.

ServiceProviderParameters <SvcPrvdrParams> contains the following elements (see

"ServiceProviderParameters2" on page 217 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		217
	ServiceProviderIdentification < SvcPrvdrld>	[1*]	±		218
	Version < Vrsn>	[11]	Text		218
	ApplicationIdentification < ApplId>	[0*]	Text		218
	Host <hst></hst>	[0*]			218
	HostIdentification <hstid></hstid>	[11]	Text		218
	MessageToSend < MsgToSnd>	[0*]	CodeSet		219
	ProtocolVersion < PrtcolVrsn>	[01]	Text		219
	ExternallyTypeSupported < XtrnlyTpSpprtd>	[0*]	Text		219
	NonFinancialActionSupported < NonFinActnSpprtd>	[0*]	CodeSet		220

6.4.2.3.11.6.5 MerchantParameters < MrchntParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to the merchant.

MerchantParameters < MrchntParams> contains the following elements (see "MerchantConfigurationParameters6" on page 250 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		250
	MerchantIdentification < MrchntId>	[01]	Text		250
	Version < Vrsn>	[01]	Text		250
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		251
	Proxy < <i>Prxy</i> >	[01]			251
	Type < <i>Tp</i> >	[11]	CodeSet		251
	Access <accs></accs>	[11]	±		251
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		252
	OffsetStart < OffsetStart>	[01]	Quantity		252
	OffsetEnd < OffsetEnd>	[01]	Quantity		252
	OtherParameters < OthrParams>	[01]	Binary		252

6.4.2.3.11.6.6 TerminalParameters < TermnlParams>

Presence: [0..*]

Definition: Manufacturer configuration parameters of the point of interaction.

TerminalParameters <TermnlParams> contains the following elements (see "PaymentTerminalParameters8" on page 246 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		247
	VendorIdentification < Vndrld>	[01]	Text		247
	Version < Vrsn>	[01]	Text		247
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		247
	ClockSynchronisation < ClckSynctn>	[01]			247
	POITimeZone < POITmZone>	[11]	Text		247
	SynchronisationServer < SynctnSvr>	[0*]	±		248
	Delay < <i>Dely</i> >	[01]	Time		248
	TimeZoneLine < TmZoneLine>	[0*]	Text		248
	LocalDateTime < LclDtTm>	[0*]			248
	FromDateTime < FrDtTm>	[01]	DateTime		249
	ToDateTime <todttm></todttm>	[01]	DateTime		249
	UTCOffset <utcoffset></utcoffset>	[11]	Quantity		249
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		249
	OffsetStart < OffsetStart>	[01]	Quantity		249
	OffsetEnd < OffsetEnd>	[01]	Quantity		249
	OtherParameters < OthrParams>	[01]	Binary		249

6.4.2.3.11.6.7 ApplicationParameters < ApplParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to a payment application of the point of interaction.

ApplicationParameters <ApplParams> contains the following elements (see <a href="ApplicationParameters11" on page 215" for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		215
	ApplicationIdentification < ApplId>	[11]	Text		216
	Version < Vrsn>	[01]	Text		216
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		216
	ParametersLength < ParamsLngth>	[01]	Quantity		216
	OffsetStart < OffsetStart>	[01]	Quantity		216
	OffsetEnd < OffsetEnd>	[01]	Quantity		216
	Parameters < Params>	[0*]	Binary		216
	EncryptedParameters < NcrptdParams>	[01]	±		217

6.4.2.3.11.6.8 HostCommunicationParameters <HstComParams>

Presence: [0..*]

Definition: Acceptor parameters dedicated to the communication with an acquirer host or a terminal manager host.

HostCommunicationParameters <HstComParams> contains the following elements (see "HostCommunicationParameter6" on page 201 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		201
	HostIdentification <hstid></hstid>	[11]	Text		202
	Address <adr></adr>	[01]	±		202
	Key <key></key>	[0*]			202
	Keyldentification < Keyld>	[11]	Text		203
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		203
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		203
	DerivationIdentification < DerivtnId>	[01]	Binary		203
	Type <tp></tp>	[01]	CodeSet		203
	Function < Fctn>	[0*]	CodeSet		204
	NetworkServiceProvider < NtwkSvcPrvdr>	[01]	±		205
	PhysicalInterface < PhysIntrfc>	[01]			205
	InterfaceName < IntrfcNm>	[11]	Text		206
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		206
	UserName < <i>UsrNm</i> >	[01]	Text		206
	AccessCode < AccsCd>	[01]	Binary		206
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		207
	AdditionalParameters < AddtlParams>	[01]	Binary		207

6.4.2.3.11.6.9 SecurityParameters <SctyParams>

Presence: [0..*]

Definition: Point of interaction parameters related to the security of software application and application protocol.

SecurityParameters <SctyParams> contains the following elements (see <u>"SecurityParameters14" on page 213</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		213
	Version < Vrsn>	[11]	Text		214
	POIChallenge < POIChllng>	[01]	Binary		214
	TMChallenge < TMChllng>	[01]	Binary		214
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		214

6.4.2.3.11.6.10 SaleToPOIParameters <SaleToPOIParams>

Presence: [0..*]

Definition: Parameters dedicated to protocols between a sale system and the POI.

SaleToPOIParameters <SaleToPOIParams> contains the following elements (see

"SaleToPOIProtocolParameter2" on page 211 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		211
	MerchantIdentification < MrchntId>	[01]			211
	CommonName < CmonNm>	[11]	Text		212
	Address < Adr>	[01]	Text		212
	CountryCode < CtryCd>	[11]	CodeSet		212
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		212
	RegisteredIdentifier < RegdIdr>	[11]	Text		212
	Version < Vrsn>	[11]	Text		212
	HostIdentification < HstId>	[11]	Text		213
	MerchantPOIIdentification < MrchntPOIId>	[01]	Text		213
	SaleIdentification <saleid></saleid>	[01]	Text		213
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		213

6.4.2.3.11.6.11 TerminalPackage <TermnlPackg>

Presence: [0..*]

Definition: Group of software packages to transfer to a group of POIComponent of the POI System.

TerminalPackage <TermnlPackg> contains the following elements (see <u>"TerminalPackageType3" on page 207</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	POIComponentIdentification < POICmpntId>	[0*]			207
	ItemNumber	[01]	Text		208
	ProviderIdentification < Prvdrld>	[01]	Text		208
	Identification <id></id>	[01]	Text		208
	SerialNumber < <i>SrlNb</i> >	[01]	Text		208
	Package < <i>Packg</i> >	[1*]			208
	PackageIdentification < Packgld>	[01]	±		209
	PackageLength < PackgLngth>	[01]	Quantity		209
	OffsetStart < OffsetStart>	[01]	Quantity		209
	OffsetEnd < OffsetEnd>	[01]	Quantity		209
	PackageBlock < PackgBlck>	[0*]			210
	Identification <id></id>	[11]	Text		210
	Value < <i>Val></i>	[01]	Binary		210
	ProtectedValue < PrtctdVal>	[01]	±		210
	Type < <i>Tp</i> >	[01]	Text		211

6.4.3 SecurityTrailer <SctyTrlr>

Presence: [1..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData>	[01]	±		436

7 catm.006.001.06 MaintenanceDelegationResponseV06

7.1 MessageDefinition Functionality

The MaintenanceDelegationResponse message is sent by the master terminal manager to a terminal manager to provide the outcome of a maintenance delegation request.

Outline

The MaintenanceDelegationResponseV06 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Maintenance delegation response message management information.

B. MaintenanceDelegationResponse

Information related to the request of maintenance delegations.

C. SecurityTrailer

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

7.2 Structure

Or	MessageElement/BuildingBlock< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Message root <document> <mntncdlgtnrspn></mntncdlgtnrspn></document>	[11]			
	Header <hdr></hdr>	[11]			105
	DownloadTransfer < DwnldTrf>	[11]	Indicator		106
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		106
	ExchangeIdentification <xchgld></xchgld>	[11]	Quantity		106
	CreationDateTime < CreDtTm>	[11]	DateTime		106
	InitiatingParty <initgpty></initgpty>	[11]	±		106
	RecipientParty <rcptpty></rcptpty>	[01]	±		107
	Traceability <tracblt></tracblt>	[0*]	±		107
	MaintenanceDelegationResponse < MntncDlgtnRspn>	[11]			108
	TMIdentification <tmid></tmid>	[11]	±		108
	MasterTMIdentification < MstrTMId>	[01]	±		109
	DelegationResponse < DlgtnRspn>	[1*]			109
	MaintenanceService <mntncsvc></mntncsvc>	[1*]	CodeSet		110
	Response <rspn></rspn>	[11]	CodeSet		111
	ResponseReason <rspnrsn></rspnrsn>	[01]	Text		111
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		111
	POISubset <poisubset></poisubset>	[0*]	Text		111
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		112
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		112
	DelegationProof < DlgtnProof>	[01]	Binary		112
	ProtectedDelegationProof <prtctddlgtnproof></prtctddlgtnproof>	[01]	±		112
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		112
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		113

7.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

7.3.1 Header <Hdr>

Presence: [1..1]

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Definition: Maintenance delegation response message management information.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		106
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		106
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		106
	CreationDateTime <credttm></credttm>	[11]	DateTime		106
	InitiatingParty <initgpty></initgpty>	[11]	±		106
	RecipientParty < RcptPty>	[01]	±		107
	Traceability <tracblt></tracblt>	[0*]	±		107

7.3.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

7.3.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

7.3.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

7.3.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

7.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

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InitiatingParty <InitgPty> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

7.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

7.3.1.7 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 392 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

7.3.2 MaintenanceDelegationResponse < MntncDlgtnRspn>

Presence: [1..1]

Definition: Information related to the request of maintenance delegations.

MaintenanceDelegationResponse < MntncDlgtnRspn> contains the following MaintenanceDelegationResponse6 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	TMIdentification <tmid></tmid>	[11]	±		108
	MasterTMIdentification < MstrTMId>	[01]	±		109
	DelegationResponse < DlgtnRspn>	[1*]			109
	MaintenanceService <mntncsvc></mntncsvc>	[1*]	CodeSet		110
	Response <rspn></rspn>	[11]	CodeSet		111
	ResponseReason <rspnrsn></rspnrsn>	[01]	Text		111
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		111
	POISubset <poisubset></poisubset>	[0*]	Text		111
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		112
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		112
	DelegationProof < DlgtnProof>	[01]	Binary		112
	ProtectedDelegationProof <prtctddlgtnproof></prtctddlgtnproof>	[01]	±		112
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		112

7.3.2.1 TMIdentification <TMId>

Presence: [1..1]

Definition: Terminal manager identification.

TMIdentification <TMId> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

7.3.2.2 MasterTMIdentification < MstrTMId>

Presence: [0..1]

Definition: Master terminal manager identification.

MasterTMIdentification <MstrTMId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

7.3.2.3 DelegationResponse < DIgtnRspn>

Presence: [1..*]

Definition: Information on the delegation of a maintenance action.

DelegationResponse < DigtnRspn> contains the following MaintenanceDelegation14 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MaintenanceService < MntncSvc>	[1*]	CodeSet		110
	Response <rspn></rspn>	[11]	CodeSet		111
	ResponseReason <rspnrsn></rspnrsn>	[01]	Text		111
	DelegationType <dlgtntp></dlgtntp>	[11]	CodeSet		111
	POISubset <poisubset></poisubset>	[0*]	Text		111
	DelegationScopeldentification < DlgtnScpld>	[01]	Text		112
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		112
	DelegationProof <dlgtnproof></dlgtnproof>	[01]	Binary		112
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		112
	POlldentificationAssociation <polldassoctn></polldassoctn>	[0*]	±		112

7.3.2.3.1 MaintenanceService < MntncSvc>

Presence: [1..*]

Definition: Maintenance service to be delegated.

Datatype: "DataSetCategory16Code" on page 487

CodeName	Name	Definition
ACQP	AcquirerProtocolParameters	Configuration parameters of the payment acquirer protocol.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
APSB	ApplicationParametersSubsetCreation	Creation of a subset of the configuration parameters of an application.
KDWL	KeyDownload	Download of cryptographic keys with the related information.
KMGT	KeyManagement	Activate, deactivate or revoke loaded cryptographic keys.
RPRT	Reporting	Reporting on activity, status and error of a point of interaction.
SWPK	SoftwareModule	Software module.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
CRTF	CertificateParameters	Certificate provided by a terminal manager.

CodeName	Name	Definition
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.
RPFL	ReportFile	Report file generated by the POI.
CONF	ConfigurationFile	Configuration file relevant for the POI.
SPRP	ServiceProviderParameters	Service Provider specific parameters for the point of interaction (POI) system.

7.3.2.3.2 Response <Rspn>

Presence: [1..1]

Definition: Response of the MTM to the delegation of the maintenance service.

Datatype: "Response2Code" on page 506

CodeName	Name	Definition
APPR	Approved	Service has been successfuly provided.
DECL	Declined	Service is declined.

7.3.2.3.3 ResponseReason < RspnRsn>

Presence: [0..1]

Definition: Reason of the response of the MTM.

Datatype: "Max35Text" on page 523

7.3.2.3.4 DelegationType <DlgtnTp>

Presence: [1..1]

Definition: Type of delegation action.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

7.3.2.3.5 POISubset < POISubset >

Presence: [0..*]

Definition: Subset of the terminal estate for the delegated actions, for instance for pilot or key deactivation). The subset may be expressed as a list of POI or terminal estate subset identifier.

Datatype: "Max35Text" on page 523

7.3.2.3.6 DelegationScopeldentification < DlgtnScpld>

Presence: [0..1]

Definition: Identification of the parameters subset assigned by the MTM.

Datatype: "Max35Text" on page 523

7.3.2.3.7 DelegationScopeDefinition <DIgtnScpDef>

Presence: [0..1]

Definition: This element contains all information relevant to the DelegationScopeIdentification. The

format of this element is out of scope of this definition.

Datatype: "Max3000Binary" on page 466

7.3.2.3.8 DelegationProof <DlgtnProof>

Presence: [0..1]

Definition: This element contains the necessary information to secure the management of the

Delegation. The format of this element is out of scope of this definition.

Datatype: "Max5000Binary" on page 467

7.3.2.3.9 ProtectedDelegationProof < PrtctdDlgtnProof>

Presence: [0..1]

Definition: Protected proof of delegation.

ProtectedDelegationProof <PrtctdDlgtnProof> contains the following elements (see

"ContentInformationType30" on page 430 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData <sgnddata></sgnddata>	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

7.3.2.3.10 POlldentificationAssociation < POlldAssoctn>

Presence: [0..*]

Definition: Association of the TM identifier and the MTM identifier of a POI.

POlldentificationAssociation < POlldAssoctn> contains the following elements (see

"MaintenanceIdentificationAssociation1" on page 392 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MasterTMIdentification < MstrTMId>	[11]	Text		392
	TMIdentification < TMId>	[11]	Text		392

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7.3.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData <sgnddata></sgnddata>	[01]	±		436

8 catm.007.001.05 CertificateManagementRequestV05

8.1 MessageDefinition Functionality

The CertificateManagementRequest message is sent by a POI terminal or any intermediary entity either to a terminal manager acting as a certificate authority for managing X.509 certificate of a public key owned by the initiating party, or for requesting the inclusion or the removal of the POI to a white list of the terminal manager.

Outline

The CertificateManagementRequestV05 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Information related to the protocol management.

B. CertificateManagementRequest

Information related to the request of certificate management.

C. SecurityTrailer

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

8.2 Structure

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Message root <document> <certmgmtreq></certmgmtreq></document>	[11]			
	Header <hdr></hdr>	[11]			116
	DownloadTransfer < DwnldTrf>	[11]	Indicator		116
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		117
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		117
	CreationDateTime < CreDtTm>	[11]	DateTime		117
	InitiatingParty <initgpty></initgpty>	[11]	±		117
	RecipientParty <rcptpty></rcptpty>	[01]	±		117
	Traceability < Tracblt>	[0*]	±		118
	CertificateManagementRequest < CertMgmtReq>	[11]			118
	POlldentification <polld></polld>	[11]	±		119
	TMIdentification <tmid></tmid>	[01]	±		120
	CertificateService < CertSvc>	[11]	CodeSet		120
	SecurityDomain <sctydomn></sctydomn>	[01]	Text		121
	BinaryCertificationRequest <binrycertfctnreq></binrycertfctnreq>	[01]	Text		121
	CertificationRequest < CertfctnReq>	[01]			121
	CertificateRequestInformation < CertReqInf>	[11]			122
	Version <vrsn></vrsn>	[01]	Quantity		122
	SubjectName <sbjtnm></sbjtnm>	[01]			122
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			122
	AttributeType <attrtp></attrtp>	[11]	CodeSet		123
	AttributeValue < AttrVal>	[11]	Text		123
	SubjectPublicKeyInformation <sbjtpblckeyinf></sbjtpblckeyinf>	[11]			123
	Algorithm <algo></algo>	[01]	CodeSet		124
	PublicKeyValue <pblckeyval></pblckeyval>	[11]			124
	Modulus <mdlus></mdlus>	[11]	Binary		124
	Exponent <expnt></expnt>	[11]	Binary		124
	Attribute <attr></attr>	[1*]			124
	AttributeType <attrtp></attrtp>	[11]	CodeSet		125
	AttributeValue <attrval></attrval>	[11]	Text		125

Or	MessageElement/BuildingBlock <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification <keyld></keyld>	[01]	Text		125
	KeyVersion <keyvrsn></keyvrsn>	[01]	Text		125
	ClientCertificate <cintcert></cintcert>	[01]	Binary		125
	WhiteListIdentification <whtlistid></whtlistid>	[01]			125
	ManufacturerIdentifier < Manfctrldr>	[11]	Text		126
	Model <mdl></mdl>	[11]	Text		126
	SerialNumber <srlnb></srlnb>	[11]	Text		126
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		126

8.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

8.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		116
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		117
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		117
	CreationDateTime < CreDtTm>	[11]	DateTime		117
	InitiatingParty <initgpty></initgpty>	[11]	±		117
	RecipientParty <rcptpty></rcptpty>	[01]	±		117
	Traceability <tracblt></tracblt>	[0*]	±		118

8.3.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

8.3.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

8.3.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

8.3.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

8.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

8.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type < <i>Tp</i> >	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZon</i> e>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

8.3.1.7 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 392 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

8.3.2 CertificateManagementRequest < CertMgmtReq>

Presence: [1..1]

Definition: Information related to the request of certificate management.

CertificateManagementRequest < CertMgmtReq > contains the following CertificateManagementRequest2 elements

MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
POlldentification <polld></polld>	[11]	±		119
TMIdentification <tmid></tmid>	[01]	±		120
CertificateService < CertSvc>	[11]	CodeSet		120
SecurityDomain <sctydomn></sctydomn>	[01]	Text		121
BinaryCertificationRequest <binrycertfctnreq></binrycertfctnreq>	[01]	Text		121
CertificationRequest < CertfctnReq>	[01]			121
CertificateRequestInformation < CertReqInf>	[11]			122
Version <vrsn></vrsn>	[01]	Quantity		122
SubjectName <sbjtnm></sbjtnm>	[01]			122
RelativeDistinguishedName <r tvdstngshdnm=""></r>	[1*]			122
AttributeType <attrtp></attrtp>	[11]	CodeSet		123
AttributeValue <attrval></attrval>	[11]	Text		123
SubjectPublicKeyInformation <sbjtpblckeyinf></sbjtpblckeyinf>	[11]			123
Algorithm <algo></algo>	[01]	CodeSet		124
PublicKeyValue <pblckeyval></pblckeyval>	[11]			124
Modulus <mdlus></mdlus>	[11]	Binary		124
Exponent <expnt></expnt>	[11]	Binary		124
Attribute < Attr>	[1*]			124
AttributeType <attrtp></attrtp>	[11]	CodeSet		125
AttributeValue <attrval></attrval>	[11]	Text		125
Keyldentification <keyld></keyld>	[01]	Text		125
KeyVersion <keyvrsn></keyvrsn>	[01]	Text		125
ClientCertificate <cintcert></cintcert>	[01]	Binary		125
WhiteListIdentification < WhtListId>	[01]			125
ManufacturerIdentifier < Manfctrldr>	[11]	Text		126
Model <mdl></mdl>	[11]	Text		126
SerialNumber <srlnb></srlnb>	[11]	Text		126
	POlldentification <polld> TMIdentification <tmid> CertificateService <certsvc> SecurityDomain <sctydomn> BinaryCertificationRequest <binrycertfctnreq> CertificateRequest <certfctnreq> CertificateRequestInformation <certreqinf> Version <vrsn> SubjectName <sbjtnm> RelativeDistinguishedName <rltvdstngshdnm> AttributeType <attrtp> AttributeValue <attrval> SubjectPublicKeyInformation <sbjtpblckeyinf> Algorithm <algo> PublicKeyValue <pblckeyval> Modulus <mdlus> Exponent <expnt> AttributeType <attrtp> AttributeType <attrtp> Certificate <cintcert> WhiteListIdentification <wntlistid> ManufacturerIdentifier <manfctridr> Model <mdl> Model <mdl></mdl></mdl></manfctridr></wntlistid></cintcert></attrtp></attrtp></expnt></mdlus></pblckeyval></algo></sbjtpblckeyinf></attrval></attrtp></rltvdstngshdnm></sbjtnm></vrsn></certreqinf></certfctnreq></binrycertfctnreq></sctydomn></certsvc></tmid></polld>	POlldentification <polld></polld>	POlldentification <polld></polld>	No. POlldentification < POlld> [11]

8.3.2.1 POlldentification < POlld>

Presence: [1..1]

Definition: Identification of the terminal or system using the certificate management service.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

8.3.2.2 TMIdentification <TMId>

Presence: [0..1]

Definition: Identification of the TM or the MTM providing the Certificate Authority service.

TMIdentification <TMId> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

8.3.2.3 CertificateService < CertSvc>

Presence: [1..1]

Definition: Requested certificate management service.

Datatype: "CardPaymentServiceType10Code" on page 484

CodeName	Name	Definition
CRTC	CreateCertificate	Creation of an X.509 certificate with the public key and the information of the owner of the asymmetric key provided by the requestor.
CRTR	RenewCerificate	Renewal of an X.509 certificate, protected by the certificate to renew.
CRTK	RevokeCertificate	Revocation of an active X.509 certificate.
WLSR	RemoveWhiteList	Remove a POI from the white list of the terminal manager.
WLSA	AddWhiteList	Add a POI in the white list of the terminal manager.

8.3.2.4 SecurityDomain <SctyDomn>

Presence: [0..1]

Definition: Identification of the client and server public key infrastructures containing the certificate. In

addition, it may identify specific requirements of the customer.

Datatype: "Max70Text" on page 525

8.3.2.5 BinaryCertificationRequest <BinryCertfctnReq>

Presence: [0..1]

Definition: PKCS#10 (Public Key Certificate Standard 10) certification request coded in base64 ASN.1/DER (Abstract Syntax Notation 1, Distinguished Encoding Rules) or PEM (Privacy Enhanced

Message) format.

Datatype: "Max20000Text" on page 522

8.3.2.6 CertificationRequest < CertfctnReq>

Presence: [0..1]

Definition: Certification request PKCS#10 (Public Key Certificate Standard 10) for creation or renewal of an X.509 certificate.

CertificationRequest < CertfctnReq > contains the following CertificationRequest1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	CertificateRequestInformation < CertReqInf>	[11]			122
	Version <vrsn></vrsn>	[01]	Quantity		122
	SubjectName <sbjtnm></sbjtnm>	[01]			122
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			122
	AttributeType <attrtp></attrtp>	[11]	CodeSet		123
	AttributeValue <attrval></attrval>	[11]	Text		123
	SubjectPublicKeyInformation <sbjtpblckeyinf></sbjtpblckeyinf>	[11]			123
	Algorithm <algo></algo>	[01]	CodeSet		124
	PublicKeyValue <pblckeyval></pblckeyval>	[11]			124
	Modulus <mdlus></mdlus>	[11]	Binary		124
	Exponent <expnt></expnt>	[11]	Binary		124
	Attribute <attr></attr>	[1*]			124
	AttributeType <attrtp></attrtp>	[11]	CodeSet		125
	AttributeValue <attrval></attrval>	[11]	Text		125
	Keyldentification <keyld></keyld>	[01]	Text		125
	KeyVersion <keyvrsn></keyvrsn>	[01]	Text		125

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8.3.2.6.1 CertificateRequestInformation < CertReqInf>

Presence: [1..1]

Definition: Information of the certificate to create.

CertificateRequestInformation < CertReqInf> contains the following CertificationRequest2 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Version <vrsn></vrsn>	[01]	Quantity		122
	SubjectName <sbjtnm></sbjtnm>	[01]			122
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			122
	AttributeType <attrtp></attrtp>	[11]	CodeSet		123
	AttributeValue <attrval></attrval>	[11]	Text		123
	SubjectPublicKeyInformation <sbjtpblckeyinf></sbjtpblckeyinf>	[11]			123
	Algorithm <algo></algo>	[01]	CodeSet		124
	PublicKeyValue <pblckeyval></pblckeyval>	[11]			124
	Modulus <mdlus></mdlus>	[11]	Binary		124
	Exponent <expnt></expnt>	[11]	Binary		124
	Attribute <attr></attr>	[1*]			124
	AttributeType <attrtp></attrtp>	[11]	CodeSet		125
	AttributeValue <attrval></attrval>	[11]	Text		125

8.3.2.6.1.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the certificate request information data structure.

Datatype: "Number" on page 519

8.3.2.6.1.2 SubjectName <SbjtNm>

Presence: [0..1]

Definition: Distinguished name of the certificate subject, the entity whose public key is to be certified.

SubjectName <SbjtNm> contains the following CertificateIssuer1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			122
	AttributeType <attrtp></attrtp>	[11]	CodeSet		123
	AttributeValue <attrval></attrval>	[11]	Text		123

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8.3.2.6.1.2.1 RelativeDistinguishedName <RItvDstngshdNm>

Presence: [1..*]

Definition: Relative distinguished name inside a X.509 certificate.

RelativeDistinguishedName <RItvDstngshdNm> contains the following RelativeDistinguishedName1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AttributeType <attrtp></attrtp>	[11]	CodeSet		123
	AttributeValue <attrval></attrval>	[11]	Text		123

8.3.2.6.1.2.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 476

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-atorganizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-atorganizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

8.3.2.6.1.2.1.2 AttributeValue <AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 522

8.3.2.6.1.3 SubjectPublicKeyInformation <SbjtPblcKeyInf>

Presence: [1..1]

Definition: Information about the public key being certified.

SubjectPublicKeyInformation <SbjtPblcKeyInf> contains the following PublicRSAKey2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm <algo></algo>	[01]	CodeSet		124
	PublicKeyValue <pblckeyval></pblckeyval>	[11]			124
	Modulus <mdlus></mdlus>	[11]	Binary		124
	Exponent <expnt></expnt>	[11]	Binary		124

8.3.2.6.1.3.1 Algorithm < Algo>

Presence: [0..1]

Definition: Asymmetric cryptographic algorithm.

Datatype: "Algorithm7Code" on page 475

CodeName	Name	Definition
ERSA	RSAEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSAO	RSAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

8.3.2.6.1.3.2 PublicKeyValue < PblcKeyVal>

Presence: [1..1]

Definition: Public key value.

PublicKeyValue < PblcKeyVal > contains the following PublicRSAKey1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Modulus <mdlus></mdlus>	[11]	Binary		124
	Exponent <expnt></expnt>	[11]	Binary		124

8.3.2.6.1.3.2.1 Modulus < Mdlus>

Presence: [1..1]

Definition: Modulus of the RSA key.

Datatype: "Max5000Binary" on page 467

8.3.2.6.1.3.2.2 Exponent <Expnt>

Presence: [1..1]

Definition: Public exponent of the RSA key.

Datatype: "Max5000Binary" on page 467

8.3.2.6.1.4 Attribute < Attr>

Presence: [1..*]

Definition: Attribute of the certificate service to be put in the certificate extensions, or to be used for the request.

Attribute <Attr> contains the following RelativeDistinguishedName2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AttributeType <attrtp></attrtp>	[11]	CodeSet		125
	AttributeValue <attrval></attrval>	[11]	Text		125

8.3.2.6.1.4.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType2Code" on page 477

CodeName	Name	Definition
EMAL	EmailAddress	Email address of the certificate subject.
CHLG	ChallengePassword	Password by which an entity may request certificate revocation.

8.3.2.6.1.4.2 AttributeValue <AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 522

8.3.2.6.2 Keyldentification < Keyld>

Presence: [0..1]

Definition: Identification of the key.

Datatype: "Max140Text" on page 522

8.3.2.6.3 KeyVersion <KeyVrsn>

Presence: [0..1]

Definition: Version of the key.

Datatype: "Max140Text" on page 522

8.3.2.7 ClientCertificate <CIntCert>

Presence: [0..1]

Definition: Created certificate. The certificate is ASN.1/DER encoded, for renewal or revocation of

certificate.

Datatype: "Max10KBinary" on page 466

8.3.2.8 WhiteListIdentification < WhtListId>

Presence: [0..1]

Definition: Identification of the white list element, for white list addition or removal.

WhiteListIdentification <WhtListId> contains the following PointOfInteraction6 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ManufacturerIdentifier < Manfctrldr>	[11]	Text		126
	Model <mdl></mdl>	[11]	Text		126
	SerialNumber <srlnb></srlnb>	[11]	Text		126

8.3.2.8.1 ManufacturerIdentifier < Manfctrldr>

Presence: [1..1]

Definition: Identifier of the terminal manufacturer.

Datatype: "Max35Text" on page 523

8.3.2.8.2 Model <Mdl>

Presence: [1..1]

Definition: Identifier of the terminal model.

Datatype: "Max35Text" on page 523

8.3.2.8.3 SerialNumber <SrINb>

Presence: [1..1]

Definition: Serial number of the terminal manufacturer.

Datatype: "Max35Text" on page 523

8.3.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see "ContentInformationType29" on

page 435 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData>	[01]	±		436

9 catm.008.001.05 CertificateManagementResponseV05

9.1 MessageDefinition Functionality

The CertificateManagementResponse is sent by a terminal manager in response to a CertificateManagementRequest to provide the outcome of the requested service.

Outline

The CertificateManagementResponseV05 MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Information related to the protocol management.

B. CertificateManagementResponse

Information related to the result of the certificate management request.

C. SecurityTrailer

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

9.2 Structure

Or	MessageElement/BuildingBlock< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Message root <document> <certmgmtrspn></certmgmtrspn></document>	[11]			
	Header <hdr></hdr>	[11]			128
	DownloadTransfer < DwnldTrf>	[11]	Indicator		129
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		129
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		129
	CreationDateTime <credttm></credttm>	[11]	DateTime		129
	InitiatingParty <initgpty></initgpty>	[11]	±		129
	RecipientParty <rcptpty></rcptpty>	[01]	±		130
	Traceability <tracblt></tracblt>	[0*]	±		130
	CertificateManagementResponse < CertMgmtRspn>	[11]			131
	POlldentification <polld></polld>	[11]	±		131
	TMIdentification < TMId>	[01]	±		132
	CertificateService < CertSvc>	[11]	CodeSet		132
	Result <rs t=""></rs>	[11]			133
	Response <rspn></rspn>	[11]	CodeSet		133
	ResponseDetail <rspndtl></rspndtl>	[01]	CodeSet		133
	AdditionalResponse <addtlrspn></addtlrspn>	[01]	Text		133
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		133
	ClientCertificate <cintcert></cintcert>	[01]	Binary		133
	ClientCertificatePath <cintcertpth></cintcertpth>	[0*]	Binary		134
	ServerCertificatePath <svrcertpth></svrcertpth>	[0*]	Binary		134
	SecurityTrailer <sctytrlr></sctytrlr>	[01]	±		134

9.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

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9.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following TMSHeader1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DownloadTransfer < DwnldTrf>	[11]	Indicator		129
	FormatVersion <frmtvrsn></frmtvrsn>	[11]	Text		129
	Exchangeldentification <xchgld></xchgld>	[11]	Quantity		129
	CreationDateTime <credttm></credttm>	[11]	DateTime		129
	InitiatingParty <initgpty></initgpty>	[11]	±		129
	RecipientParty <rcptpty></rcptpty>	[01]	±		130
	Traceability <tracblt></tracblt>	[0*]	±		130

9.3.1.1 DownloadTransfer < DwnldTrf>

Presence: [1..1]

Definition: Indicates if the file transfer is a download or an upload.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

9.3.1.2 FormatVersion <FrmtVrsn>

Presence: [1..1]

Definition: Version of file format.

Datatype: "Max6Text" on page 525

9.3.1.3 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Number" on page 519

9.3.1.4 CreationDateTime < CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

9.3.1.5 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

9.3.1.6 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

9.3.1.7 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 392 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

9.3.2 CertificateManagementResponse < CertMgmtRspn>

Presence: [1..1]

Definition: Information related to the result of the certificate management request.

CertificateManagementResponse < CertMgmtRspn> contains the following CertificateManagementResponse2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	POlldentification <polld></polld>	[11]	±		131
	TMIdentification <tmid></tmid>	[01]	±		132
	CertificateService < CertSvc>	[11]	CodeSet		132
	Result <rs t=""></rs>	[11]			133
	Response <rspn></rspn>	[11]	CodeSet		133
	ResponseDetail <rspndtl></rspndtl>	[01]	CodeSet		133
	AdditionalResponse <addtlrspn></addtlrspn>	[01]	Text		133
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		133
	ClientCertificate <cintcert></cintcert>	[01]	Binary		133
	ClientCertificatePath <cintcertpth></cintcertpth>	[0*]	Binary		134
	ServerCertificatePath <svrcertpth></svrcertpth>	[0*]	Binary		134

9.3.2.1 POlldentification <POlld>

Presence: [1..1]

Definition: Identification of the terminal or system using the certificate management service.

POlldentification <POlld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

9.3.2.2 TMIdentification <TMId>

Presence: [0..1]

Definition: Identification of the TM or the MTM providing the Certificate Authority service.

TMIdentification <TMId> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

9.3.2.3 CertificateService < CertSvc>

Presence: [1..1]

Definition: Requested certificate management service.

Datatype: "CardPaymentServiceType10Code" on page 484

CodeName	Name	Definition
CRTC	CreateCertificate	Creation of an X.509 certificate with the public key and the information of the owner of the asymmetric key provided by the requestor.
CRTR	RenewCerificate	Renewal of an X.509 certificate, protected by the certificate to renew.
CRTK	RevokeCertificate	Revocation of an active X.509 certificate.
WLSR	RemoveWhiteList	Remove a POI from the white list of the terminal manager.
WLSA	AddWhiteList	Add a POI in the white list of the terminal manager.

9.3.2.4 Result <Rslt>

Presence: [1..1]

Definition: Outcome of the certificate service processing.

Result <RsIt> contains the following ResponseType6 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Response <rspn></rspn>	[11]	CodeSet		133
	ResponseDetail <rspndtl></rspndtl>	[01]	CodeSet		133
	AdditionalResponse <addtlrspn></addtlrspn>	[01]	Text		133

9.3.2.4.1 Response <Rspn>

Presence: [1..1]

Definition: Response of the terminal manager.

Datatype: "Response2Code" on page 506

CodeName	Name	Definition
APPR	Approved	Service has been successfuly provided.
DECL	Declined	Service is declined.

9.3.2.4.2 ResponseDetail <RspnDtl>

Presence: [0..1]

Definition: Detail of the response.

Datatype: "ResultDetail3Code" on page 507

CodeName	Name	Definition
CRTU	UnknownCertificate	The certificate is unknown.
SVSU	UnsupportedService	Requested service not supported.

9.3.2.4.3 AdditionalResponse <AddtlRspn>

Presence: [0..1]

Definition: Additional information on the response for further examination.

Datatype: "Max140Text" on page 522

9.3.2.5 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the security profile, for creation, renewal or revocation of certificate.

Datatype: "Max35Text" on page 523

9.3.2.6 ClientCertificate <CIntCert>

Presence: [0..1]

Definition: Created or renewed certificate. The certificate is ASN.1/DER encoded.

Datatype: "Max3000Binary" on page 466

9.3.2.7 ClientCertificatePath <CIntCertPth>

Presence: [0..*]

Definition: Certificate of the client certificate path, from the CA (Certificate Authority) certificate, to the root certificate, for renewal or revocation of certificate.

Datatype: "Max10KBinary" on page 466

9.3.2.8 ServerCertificatePath <SvrCertPth>

Presence: [0..*]

Definition: Certificate of the server certificate path, from the CA (Certificate Authority) certificate, to the root certificate, for renewal or revocation of certificate.

Datatype: "Max10KBinary" on page 466

9.3.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

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

SecurityTrailer <SctyTrIr> contains the following elements (see <u>"ContentInformationType29" on page 435</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData>	[01]	±		436

10 Message Items Types

10.1 MessageComponents

10.1.1 Acquirer

10.1.1.1 Acquirer10

Definition: Acquirer involved in the card payment.

C	Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		Identification <id></id>	[01]	±		135
		ParametersVersion < ParamsVrsn>	[01]	Text		135

10.1.1.1.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the acquirer (for example the bank identification number BIN).

Identification <Id> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <i><shrtnm></shrtnm></i>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <long></long>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

10.1.1.1.2 ParametersVersion <ParamsVrsn>

Presence: [0..1]

Definition: Version of the payment acquirer parameters of the POI.

Datatype: "Max256Text" on page 522

10.1.1.2 KEKIdentifier7

Definition: Identification of a key encryption key (KEK), using previously distributed symmetric key.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.1.2.1 Keyldentification < Keyld>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.1.2.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.1.2.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 519

10.1.1.2.4 DerivationIdentification < DerivtnId>

Presence: [0..1]

Definition: Identification used for derivation of a unique key from a master key provided for the data

protection.

Datatype: "Max500Binary" on page 467

10.1.2 Action

10.1.2.1 DeviceRequest5

Definition: This component define the environment, the context and the services to be used with this message.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Environment < Envt>	[01]	±		139
	Context < Cntxt>	[01]	±		145
	ServiceContent <svccntt></svccntt>	[11]	CodeSet		148
	DisplayRequest < DispReq>	[01]			148
	DisplayOutput < DispOutpt>	[1*]	±		148
	InputRequest <inptreq></inptreq>	[01]			149
	DisplayOutput < DispOutpt>	[01]	±		150
	InputData	[11]			151
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		152
	InformationQualifier < InfQlfr>	[11]	CodeSet		152
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		153
	NotifyCardInputFlag <ntfycardinptflg></ntfycardinptflg>	[11]	Indicator		154
	MaximumInputTime < MaxInptTm>	[01]	Quantity		154
	InputText <inpttxt></inpttxt>	[01]	±		154
	ImmediateResponseFlag < ImdtRspnFlg>	[01]	Indicator		155
	WaitUserValidationFlag < WaitUsrVldtnFlg>	[01]	Indicator		155
	BeepKeyFlag < <i>BeepKeyFlg</i> >	[01]	Indicator		155
	GlobalCorrectionFlag < GblCrrctnFlg>	[01]	Indicator		156
	DisableCancelFlag < DsblCclFlg>	[01]	Indicator		156
	DisableCorrectFlag < DsblCrrctFlg>	[01]	Indicator		156
	DisableValidFlag < <i>DsblVldFlg</i> >	[01]	Indicator		156
	MenuBackFlag < MenuBckFlg>	[01]	Indicator		156
	PrintRequest < PrtReq>	[01]			157
	DocumentQualifier < DocQlfr>	[11]	CodeSet		157
	ResponseMode < RspnMd>	[11]	CodeSet		157
	IntegratedPrintFlag <intgrtdprtflg></intgrtdprtflg>	[01]	Indicator		158
	RequiredSignatureFlag < ReqrdSgntrFlg>	[01]	Indicator		158
	OutputContent < OutptCntt>	[11]	±		158
	PlayResourceRequest < PlayRsrcReq>	[01]			159
	ResponseMode < RspnMd>	[01]	CodeSet		160
	ResourceAction < RsrcActn>	[11]	CodeSet		160

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	SoundVolume <soundvol></soundvol>	[01]	Rate		160
	DisplayResolution < DispRsltn>	[01]	Text		160
	Resource <rsrc></rsrc>	[01]			160
	ResourceType <rsrctp></rsrctp>	[11]	CodeSet		161
	ResourceFormat < RsrcFrmt>	[01]	CodeSet		161
	Language <lang></lang>	[01]	CodeSet	C6	161
	ResourceReference < RsrcRef >	[01]	Text		161
	TimingSlot < TmgSlot>	[01]	CodeSet		162
	SecureInputRequest <scrinptreq></scrinptreq>	[01]			162
	PINRequestType < <i>PINReqTp</i> >	[11]	CodeSet		162
	PINVerificationMethod < PINVrfctnMtd>	[01]	Text		163
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		163
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		163
	CardholderPIN < CrdhldrPIN>	[01]			163
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		163
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		164
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		164
	InitialisationCardReaderRequest < InitlstnCardRdrReq>	[01]			164
	WarmResetFlag < WarmRstFlg>	[01]	Indicator		165
	ForceEntryMode < ForceNtryMd>	[0*]	CodeSet		165
	LeaveCardFlag < LeavCardFlg>	[01]	Indicator		166
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		166
	DisplayOutput < DispOutpt>	[01]	±		166
	CardReaderAPDURequest < CardRdrAPDUReq>	[01]			167
	Class < Clss>	[11]	Binary		167
	Instruction < Instr>	[11]	Binary		167
	Parameter1 < Param1>	[11]	Binary		167
	Parameter2 < Param2 >	[11]	Binary		167
	Data < Data >	[01]	Binary		167
	ExpectedLength < XpctdLngth>	[01]	Binary		167
	PowerOffCardReaderRequest < PwrOffCardRdrReq>	[01]			168

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PowerOffMaximumWaitingTime < PwrOffMaxWtgTm>	[01]	Quantity		168
	DisplayOutput < DispOutpt>	[01]	±		168
	TransmissionRequest < TrnsmssnReq>	[01]			169
	DestinationAddress < DstnAdr>	[11]	±		169
	MaximumTransmissionTime < MaxTrnsmssnTm>	[11]	Quantity		170
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		170
	MessageToSend < MsgToSnd>	[11]	Binary		170
	InputNotification <inptntfctn></inptntfctn>	[01]			170
	ExchangeIdentification < XchgId>	[11]	Text		170
	OutputContent < OutptCntt>	[11]	±		171
	SupplementaryData <splmtrydata></splmtrydata>	[0*]	±	C5	171

10.1.2.1.1 Environment <Envt>

Presence: [0..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see <u>"CardPaymentEnvironment78" on page 281</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Acquirer <acqrr></acqrr>	[01]	±		287
	Merchant < Mrchnt>	[01]			287
	Identification <id></id>	[01]	±		287
	CommonName < CmonNm>	[01]	Text		288
	LocationCategory < LctnCtgy>	[01]	CodeSet		288
	LocationAndContact < LctnAndCtct>	[01]	±		288
	SchemeData < SchmeData >	[01]	Text		289
	POI <poi></poi>	[01]			289
	Identification <id></id>	[11]	±		289
	SystemName <sysnm></sysnm>	[01]	Text		290
	GroupIdentification < GrpId>	[01]	Text		290
	Capabilities < Cpblties>	[01]	±		290
	TimeZone < TmZone>	[01]	Text		291
	TerminalIntegration < TermnIIntgtn>	[01]	CodeSet		291
	Component < Cmpnt>	[0*]	±		292
	Card < Card>	[01]			294
	ProtectedCardData < PrtctdCardData >	[01]	±		295
	PrivateCardData < PrvtCardData>	[01]	Binary		295
	PlainCardData < PlainCardData>	[01]	±		295
	PaymentAccountReference < PmtAcctRef>	[01]	Text		296
	MaskedPAN < MskdPAN>	[01]	Text		296
	IssuerBIN	[01]	Text		296
	CardCountryCode < CardCtryCd>	[01]	Text		296
	CardCurrencyCode < CardCcyCd>	[01]	Text		296
	CardProductProfile < CardPdctPrfl>	[01]	Text		297
	CardBrand < CardBrnd>	[01]	Text		297
	CardProductType < CardPdctTp>	[01]	CodeSet		297
	CardProductSubType < CardPdctSubTp>	[01]	Text		297
	InternationalCard < IntrnlCard>	[01]	Indicator		297
	AllowedProduct <allwdpdct></allwdpdct>	[0*]	Text		297

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ServiceOption <svcoptn></svcoptn>	[01]	Text		298
	AdditionalCardData < AddtlCardData >	[01]	Text		298
	Check < Chck >	[01]			298
	BankIdentification < BkId>	[01]	Text		298
	AccountNumber <acctnb></acctnb>	[01]	Text		298
	CheckNumber < ChckNb>	[01]	Text		298
	CheckCardNumber < ChckCardNb>	[01]	Text		299
	CheckTrackData2 < ChckTrckData2>	[01]			299
	TrackNumber < TrckNb>	[01]	Quantity		299
	TrackFormat < TrckFrmt>	[01]	CodeSet		299
	TrackValue <i><trckval></trckval></i>	[11]	Text		300
	CheckType <chcktp></chcktp>	[01]	CodeSet		300
	Country < Ctry>	[01]	Text		300
	StoredValueAccount <stordvalacct></stordvalacct>	[0*]			300
	AccountType <accttp></accttp>	[01]	CodeSet		301
	IdentificationType	[01]	CodeSet		302
	Identification <id></id>	[01]	Text		302
	Brand <brnd></brnd>	[01]	Text		302
	Provider < <i>Prvdr></i>	[01]	Text		302
	OwnerName < OwnrNm>	[01]	Text		302
	ExpiryDate <xprydt></xprydt>	[01]	Text		303
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		303
	Currency < Ccy>	[01]	CodeSet	C1	303
	Balance <bal></bal>	[01]	Amount		304
	LoyaltyAccount <lltyacct></lltyacct>	[0*]	±		304
	CustomerDevice < CstmrDvc>	[01]	±		304
	Wallet < Wllt>	[01]	±		304
	PaymentToken < PmtTkn>	[01]	±		305
	MerchantToken < MrchntTkn>	[01]	±		305
	Cardholder < Crdhldr>	[01]			306
	Identification	[01]			310

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		310
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		310
	DriverLicenseName < DrvrLicNm>	[01]	Text		311
	DriverIdentification < DrvrId>	[01]	Text		311
	CustomerNumber < CstmrNb>	[01]	Text		311
	SocialSecurityNumber <sc sctynb=""></sc>	[01]	Text		311
	AlienRegistrationNumber <ainregnnb></ainregnnb>	[01]	Text		311
	PassportNumber < PsptNb>	[01]	Text		311
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		311
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		311
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		312
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		312
	JobNumber < JobNb>	[01]	Text		312
	Department < Dept>	[01]	Text		312
	EmailAddress < EmailAdr>	[01]	Text		312
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			312
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	С3	313
	Other < Othr>	[0*]	±		313
	Name <nm></nm>	[01]	Text		313
	Language <i><lang></lang></i>	[01]	CodeSet	C6	313
	BillingAddress < BllgAdr>	[01]	±		314
	ShippingAddress <shppgadr></shppgadr>	[01]	±		314
	TripNumber < <i>TripNb</i> >	[01]	Text		315
	Vehicle < Vhcl>	[01]	±		315
	Authentication < Authntcn>	[0*]			316
	AuthenticationMethod < AuthntcnMtd>	[01]	CodeSet		318
	AuthenticationExemption < AuthntcnXmptn>	[01]	CodeSet		319
	AuthenticationValue < AuthntcnVal>	[01]	Binary		320

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ProtectedAuthenticationValue < PrtctdAuthntcnVal>	[01]	±		320
	CardholderOnLinePIN < CrdhldrOnLinePIN>	[01]			320
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput < AddtlInpt>	[01]	Text		321
	CardholderIdentification < Crdhldrld>	[01]			321
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber <cstmrnb></cstmrnb>	[01]	Text		323
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		323
	AlienRegistrationNumber < AlnRegnNb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber < IdntyCardNb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeldentificationNumber < MplyeeldNb>	[01]	Text		324
	JobNumber < <i>JobNb</i> >	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	С3	325
	Other < Othr>	[0*]	±		325
	AddressVerification <adrvrfctn></adrvrfctn>	[01]			325
	AddressDigits <adrdgts></adrdgts>	[01]	Text		325
	PostalCodeDigits < PstlCdDgts>	[01]	Text		326
	AuthenticationType <authntcntp></authntcntp>	[01]	Text		326

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr.	Page
	AuthenticationLevel < AuthntcnLvl>	[01]	Text		326
	AuthenticationResult < AuthntcnRslt>	[01]	CodeSet		326
	AuthenticationAdditionalInformation < AuthntcnAddtlInf >	[01]			326
	Identification <id></id>	[11]	Text		327
	Value < Val>	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type < <i>Tp</i> >	[01]	Text		327
	TransactionVerificationResult < TxVrfctnRslt>	[0*]			327
	Method <mtd></mtd>	[11]	CodeSet		328
	VerificationEntity < VrfctnNtty>	[01]	CodeSet		329
	Result <rslt></rslt>	[01]	CodeSet		329
	AdditionalResult < AddtlRslt>	[01]	Text		329
	PersonalData < PrsnlData>	[01]	Text		330
	MobileData < MobData >	[0*]			330
	MobileCountryCode < MobCtryCd>	[01]	Text		330
	MobileNetworkCode < MobNtwkCd>	[01]	Text		330
	MobileMaskedMSISDN < MobMskdMSISDN>	[01]	Text		331
	Geolocation < Glctn>	[01]			331
	GeographicCoordinates < GeogcCordints>	[01]			331
	Latitude < <i>Lat</i> >	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		332
	SensitiveMobileData <snstvmobdata></snstvmobdata>	[01]			332
	MSISDN < MSISDN>	[11]	Text		333
	IMSI <imsi></imsi>	[01]	Text		333
	IMEI <imei></imei>	[01]	Text		333
	ProtectedMobileData < PrtctdMobData >	[01]	±		333
	ProtectedCardholderData < PrtctdCrdhldrData>	[01]	±		333
	I .		1		

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	SaleEnvironment < SaleEnvt>	[01]			334
	SaleCapabilities <salecpblties></salecpblties>	[0*]	CodeSet		334
	Currency < Ccy>	[01]	CodeSet	C1	335
	MinimumAmountToDeliver < MinAmtToDlvr>	[01]	Amount		335
	MaximumCashBackAmount < MaxCshBckAmt>	[01]	Amount		335
	MinimumSplitAmount < MinSpltAmt>	[01]	Amount		336
	DebitPreferredFlag < DbtPrefrdFlg>	[01]	Indicator		336
	LoyaltyHandling <lltyhdlg></lltyhdlg>	[01]	CodeSet		336

10.1.2.1.2 Context <Cntxt>

Presence: [0..1]

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

Context <Cntxt> contains the following elements (see <u>"CardPaymentContext29" on page 336</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PaymentContext < PmtCntxt>	[01]			339
	CardPresent < CardPres>	[01]	Indicator		339
	CardholderPresent < CrdhldrPres>	[01]	Indicator		339
	OnLineContext < OnLineCntxt>	[01]	Indicator		340
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		340
	TransactionEnvironment <txenvt></txenvt>	[01]	CodeSet		340
	TransactionChannel <txchanl></txchanl>	[01]	CodeSet		340
	BusinessArea < BizArea >	[01]	CodeSet		341
	AttendantMessageCapable < AttndntMsgCpbl>	[01]	Indicator		341
	AttendantLanguage < AttndntLang>	[01]	CodeSet	C6	341
	CardDataEntryMode < CardDataNtryMd>	[01]	CodeSet		342
	FallbackIndicator < FllbckInd>	[01]	CodeSet		342
	SupportedOption <spprtdoptn></spprtdoptn>	[0*]	CodeSet		343
	SaleContext <salecntxt></salecntxt>	[01]			343
	SaleIdentification <saleid></saleid>	[01]	Text		344
	SaleReferenceNumber <salerefnb></salerefnb>	[01]	Text		344
	SaleReconciliationIdentification < SaleRcncltnId>	[01]	Text		345
	CashierIdentification < Cshrld>	[01]	Text		345
	CashierLanguage < CshrLang>	[0*]	CodeSet	C6	345
	ShiftNumber <shftnb></shftnb>	[01]	Text		345
	CustomerOrderRequestFlag <cstmrordrreqflg></cstmrordrreqflg>	[01]	Indicator		345
	PurchaseOrderNumber < PurchsOrdrNb>	[01]	Text		345
	InvoiceNumber <invcnb></invcnb>	[01]	Text		345
	DeliveryNoteNumber < DlvryNoteNb>	[01]	Text		346
	SponsoredMerchant < SpnsrdMrchnt>	[0*]			346
	CommonName < CmonNm>	[11]	Text		346
	Address < Adr>	[01]	Text		346
	CountryCode < CtryCd>	[11]	CodeSet		346
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		346
	RegisteredIdentifier < RegdIdr>	[11]	Text		346

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	SplitPayment <spltpmt></spltpmt>	[01]	Indicator		347
	RemainingAmount < RmngAmt>	[01]	Amount		347
	ForceOnlineFlag <forceonlnflg></forceonlnflg>	[01]	Indicator		347
	ReuseCardDataFlag <reusecarddataflg></reusecarddataflg>	[01]	Indicator		347
	AllowedEntryMode <allwdntrymd></allwdntrymd>	[0*]	CodeSet		347
	SaleTokenScope <saletknscp></saletknscp>	[01]	CodeSet		348
	AdditionalSaleData < AddtlSaleData >	[01]	Text		348
	DirectDebitContext < DrctDbtCntxt>	[01]			348
	DebtorIdentification < Dbtrld>	[01]			349
	Debtor < Dbtr>	[01]			350
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address <adr></adr>	[11]	±		351
	AccountIdentification < Acctld>	[01]			352
{Or	IBAN < <i>IBAN</i> >	[11]	IdentifierSet	C4	352
Or	BBAN < <i>BBAN</i> >	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount < DmstAcct>	[11]			353
	Identification	[11]	Text		353
	CreditorIdentification < Cdtrld>	[11]			353
	Creditor < Cdtr>	[11]			354
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name <nm></nm>	[11]	Text		355
	Address < Adr >	[11]	±		355
	RegistrationIdentification < RegnId>	[01]	Text		355
	MandateRelatedInformation < MndtRltdInf>	[11]			355
	MandateIdentification < Mndtld>	[11]	Text		356

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DateOfSignature < DtOfSgntr>	[01]	Date		356
	MandateImage < MndtImg>	[01]	Binary		356

10.1.2.1.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service requested.

Datatype: "RetailerService8Code" on page 508

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	DeviceSendApplicationProtocolDataUnitCardRe aderRequest	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.

10.1.2.1.4 DisplayRequest < DispReq>

Presence: [0..1]

Definition: Content of the Display Request message.

DisplayRequest < DispReq> contains the following DeviceDisplayRequest4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DisplayOutput < DispOutpt>	[1*]	±		148

10.1.2.1.4.1 DisplayOutput <DispOutpt>

Presence: [1..*]

Definition: Message to be displayed.

DisplayOutput <DispOutpt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format < <i>Frmt</i> >	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode <outptbrcd></outptbrcd>	[01]			358
	BarcodeType < BrcdTp>	[11]	CodeSet		359
	BarcodeValue <i><brcdval></brcdval></i>	[01]	Text		359
	QRCodeBinaryValue < QRCdBinryVal>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag < RspnReqrdFlg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

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10.1.2.1.5 InputRequest <InptReq>

Presence: [0..1]

Definition: Content of the Input Request message.

InputRequest <InptReq> contains the following DeviceInputRequest4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DisplayOutput < DispOutpt>	[01]	±		150
	InputData <inptdata></inptdata>	[11]			151
	DeviceType <dvctp></dvctp>	[11]	CodeSet		152
	InformationQualifier < InfQlfr>	[11]	CodeSet		152
	InputCommand < InptCmd>	[11]	CodeSet		153
	NotifyCardInputFlag < NtfyCardInptFlg>	[11]	Indicator		154
	MaximumInputTime < MaxInptTm>	[01]	Quantity		154
	InputText <inpttxt></inpttxt>	[01]	±		154
	ImmediateResponseFlag < ImdtRspnFlg>	[01]	Indicator		155
	WaitUserValidationFlag < WaitUsrVldtnFlg>	[01]	Indicator		155
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		155
	GlobalCorrectionFlag < GblCrrctnFlg>	[01]	Indicator		156
	DisableCancelFlag < DsblCclFlg>	[01]	Indicator		156
	DisableCorrectFlag < DsblCrrctFlg>	[01]	Indicator		156
	DisableValidFlag <i><dsblvldflg></dsblvldflg></i>	[01]	Indicator		156
	MenuBackFlag <i><menubckflg></menubckflg></i>	[01]	Indicator		156

10.1.2.1.5.1 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Information to display before input.

DisplayOutput <DispOutpt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format <frmt></frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode < OutptBrcd>	[01]			358
	BarcodeType <brcdtp></brcdtp>	[11]	CodeSet		359
	BarcodeValue < <i>BrcdVal</i> >	[01]	Text		359
	QRCodeBinaryValue < <i>QRCdBinryVal</i> >	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag <rspnreqrdflg></rspnreqrdflg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.2.1.5.2 InputData <InptData>

Presence: [1..1]

Definition: Information related to an Input request.

InputData <InptData> contains the following InputData4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DeviceType <dvctp></dvctp>	[11]	CodeSet		152
	InformationQualifier < InfQlfr>	[11]	CodeSet		152
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		153
	NotifyCardInputFlag <ntfycardinptflg></ntfycardinptflg>	[11]	Indicator		154
	MaximumInputTime < MaxInptTm>	[01]	Quantity		154
	InputText <inpttxt></inpttxt>	[01]	±		154
	ImmediateResponseFlag < ImdtRspnFlg>	[01]	Indicator		155
	WaitUserValidationFlag < WaitUsrVldtnFlg>	[01]	Indicator		155
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		155
	GlobalCorrectionFlag < GblCrrctnFlg>	[01]	Indicator		156
	DisableCancelFlag < DsblCclFlg>	[01]	Indicator		156
	DisableCorrectFlag < DsblCrrctFlg>	[01]	Indicator		156
	DisableValidFlag < DsblVldFlg>	[01]	Indicator		156
	MenuBackFlag < MenuBckFlg>	[01]	Indicator		156

10.1.2.1.5.2.1 DeviceType < DvcTp>

Presence: [1..1]

Definition: Type of logical device located on a Sale Terminal or a POI Terminal.

Datatype: "SaleCapabilities2Code" on page 510

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).

10.1.2.1.5.2.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to output to the logical device.

Datatype: "InformationQualify1Code" on page 491

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.

10.1.2.1.5.2.3 InputCommand <InptCmd>

Presence: [1..1]

Definition: Type of requested input.

Datatype: "InputCommand1Code" on page 492

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

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.

10.1.2.1.5.2.4 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.5 MaximumInputTime <MaxInptTm>

Presence: [0..1]

Definition: Maximum input time in seconds.

Datatype: "Number" on page 519

10.1.2.1.5.2.6 InputText <InptTxt>

Presence: [0..1]

Definition: Text value set for an input command.

InputText <InptTxt> contains the following elements (see "ActionMessage9" on page 356 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format <frmt></frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode <outptbrcd></outptbrcd>	[01]			358
	BarcodeType < <i>BrcdTp</i> >	[11]	CodeSet		359
	BarcodeValue <i><brcdval></brcdval></i>	[01]	Text		359
	QRCodeBinaryValue <qrcdbinryval></qrcdbinryval>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag < RspnReqrdFlg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.2.1.5.2.7 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.8 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.9 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.10 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.11 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.12 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.13 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.5.2.14 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 519):

· Meaning When True: True

• Meaning When False: False

10.1.2.1.6 PrintRequest < PrtReq>

Presence: [0..1]

Definition: Content of the Print Request message.

PrintRequest < PrtReq > contains the following DevicePrintRequest4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DocumentQualifier < DocQlfr>	[11]	CodeSet		157
	ResponseMode < RspnMd>	[11]	CodeSet		157
	IntegratedPrintFlag <intgrtdprtflg></intgrtdprtflg>	[01]	Indicator		158
	RequiredSignatureFlag < ReqrdSgntrFlg>	[01]	Indicator		158
	OutputContent < OutptCntt>	[11]	±		158

10.1.2.1.6.1 DocumentQualifier < DocQlfr>

Presence: [1..1]

Definition: Qualifies the type of document.

Datatype: "DocumentType7Code" on page 489

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.

10.1.2.1.6.2 ResponseMode <RspnMd>

Presence: [1..1]

Definition: Type of awaited response (none, immediate, after printing, after sound).

Datatype: "ResponseMode2Code" on page 506

CodeName	Name	Definition
SEND	EndOfPlay	The Response is required at the end of play.

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.

10.1.2.1.6.3 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.6.4 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.6.5 OutputContent <OutptCntt>

Presence: [1..1]

Definition: Content of the message to print.

OutputContent <OutptCntt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format <frmt></frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode <outptbrcd></outptbrcd>	[01]			358
	BarcodeType < <i>BrcdTp</i> >	[11]	CodeSet		359
	BarcodeValue < BrcdVal>	[01]	Text		359
	QRCodeBinaryValue <qrcdbinryval></qrcdbinryval>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag < RspnReqrdFlg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.2.1.7 PlayResourceRequest <PlayRsrcReq>

Presence: [0..1]

Definition: Content of the Resource Request message.

PlayResourceRequest <PlayRsrcReq> contains the following DevicePlayResourceRequest1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ResponseMode < RspnMd>	[01]	CodeSet		160
	ResourceAction < RsrcActn>	[11]	CodeSet		160
	SoundVolume <soundvol></soundvol>	[01]	Rate		160
	DisplayResolution < DispRsltn>	[01]	Text		160
	Resource < Rsrc>	[01]			160
	ResourceType <rsrctp></rsrctp>	[11]	CodeSet		161
	ResourceFormat <rsrcfrmt></rsrcfrmt>	[01]	CodeSet		161
	Language <lang></lang>	[01]	CodeSet	C6	161
	ResourceReference < RsrcRef>	[01]	Text		161
	TimingSlot < TmgSlot>	[01]	CodeSet		162

10.1.2.1.7.1 ResponseMode <RspnMd>

Presence: [0..1]

Definition: Message response awaited by the initiator of the Request.

Datatype: "ResponseMode2Code" on page 506

CodeName	Name	Definition
SEND	EndOfPlay	The Response is required at the end of play.
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.

10.1.2.1.7.2 ResourceAction <RsrcActn>

Presence: [1..1]

Definition: Requested Action: Start to play a media resource, Stop to play a media resource, Set the

default volume.

Datatype: "ResourceAction1Code" on page 505

CodeName	Name	Definition
PAUS	Pause	Pause the media resource in progress as specified in the message.
STAS	Play	Start the media resource as specified in the message.
LOOP	PlayInLoop	Play in a loop the media resource as specified in the message.
RESU	Resume	Resume the progress of the media resource as specified in the message.
DVOL	SetDefaultVolume	Set the default volume of sounds.
STOS	Stop	Stop the media resource in progress.

10.1.2.1.7.3 SoundVolume <SoundVol>

Presence: [0..1]

Definition: Volume of a sound, either in a percentage of the maximum volume, or 0 to mute.

Datatype: "PercentageRate" on page 520

10.1.2.1.7.4 DisplayResolution < DispRsItn>

Presence: [0..1]

Definition: Resolution to use.

Datatype: "Max35Text" on page 523

10.1.2.1.7.5 Resource < Rsrc>

Presence: [0..1]

Definition: Identification of the resource to use.

Resource <Rsrc> contains the following ResourceContent1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ResourceType <rsrctp></rsrctp>	[11]	CodeSet		161
	ResourceFormat < RsrcFrmt>	[01]	CodeSet		161
	Language <lang></lang>	[01]	CodeSet	C6	161
	ResourceReference < RsrcRef>	[01]	Text		161

10.1.2.1.7.5.1 ResourceType <RsrcTp>

Presence: [1..1]

Definition: Type of media resource.

Datatype: "ResourceType1Code" on page 506

CodeName	Name	Definition
TEXT	TextToSpeech	Voice synthesis.
URLI	UniformResourceIdentifier	String of characters that unambiguously identifies a particular resource.

10.1.2.1.7.5.2 ResourceFormat <RsrcFrmt>

Presence: [0..1]

Definition: Format of the media resource;

Datatype: "SoundFormat1Code" on page 511

CodeName	Name Definition		
MSGR	MessageRef	Reference of a preloaded text to play.	
SNDR	SoundRef	Preloaded sound File.	
TEXT	Text	Text to play.	

10.1.2.1.7.5.3 Language <Lang>

Presence: [0..1]

Definition: Language of the media resource.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 493

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.1.2.1.7.5.4 ResourceReference <RsrcRef>

Presence: [0..1]

Definition: Reference of a media resource.

Datatype: "Max1025Text" on page 521

10.1.2.1.7.6 TimingSlot <TmgSlot>

Presence: [0..1]

Definition: Identification of the moment to manage the media resource.

Datatype: "ProcessingPosition2Code" on page 504

CodeName	Name	Definition
AFTE	After	Specifies that the transaction/instruction is to be executed after the linked transaction/instruction.
WITH	With	Specifies that the transaction/instruction is to be executed with the linked transaction/instruction.
BEFO	Before	Specifies that the transaction/instruction is to be executed before the linked transaction/instruction.
INFO	Information	Specifies that the transactions/ instructions are linked for information purposes only.

10.1.2.1.8 SecureInputRequest <ScrInptReq>

Presence: [0..1]

Definition: Request a secure input for a PIN.

SecureInputRequest <ScrInptReq> contains the following DeviceSecureInputRequest4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PINRequestType < <i>PINReqTp</i> >	[11]	CodeSet		162
	PINVerificationMethod <pinvrfctnmtd></pinvrfctnmtd>	[01]	Text		163
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		163
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		163
	CardholderPIN < CrdhldrPIN>	[01]			163
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		163
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		164
	AdditionalInput < AddtlInpt>	[01]	Text		164

10.1.2.1.8.1 PINRequestType <PINReqTp>

Presence: [1..1]

Definition: Type of PIN Service.

Datatype: "PINRequestType1Code" on page 501

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.

10.1.2.1.8.2 PINVerificationMethod <PINVrfctnMtd>

Presence: [0..1]

Definition: Identify the PIN verification method and keys.

Datatype: "Max35Text" on page 523

10.1.2.1.8.3 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Maximum time to wait for the request processing in seconds.

Datatype: "Number" on page 519

10.1.2.1.8.4 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.1.8.5 CardholderPIN < CrdhldrPIN>

Presence: [0..1]

Definition: Enciphered PIN and related information.

CardholderPIN < CrdhldrPIN> contains the following OnLinePIN9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		163
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		164
	AdditionalInput < AddtlInpt>	[01]	Text		164

10.1.2.1.8.5.1 EncryptedPINBlock < NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see "ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		428
	EnvelopedData < EnvlpdData>	[11]	±		429

10.1.2.1.8.5.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 501

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.

10.1.2.1.8.5.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 523

10.1.2.1.9 InitialisationCardReaderRequest <InitIstnCardRdrReq>

Presence: [0..1]

Definition: A service to send parameters to Card Reader to initialize a new communication with a card.

InitialisationCardReaderRequest <InitIstnCardRdrReq> contains the following DeviceInitialisationCardReaderRequest4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	WarmResetFlag < WarmRstFlg>	[01]	Indicator		165
	ForceEntryMode <forcentrymd></forcentrymd>	[0*]	CodeSet		165
	LeaveCardFlag <leavcardflg></leavcardflg>	[01]	Indicator		166
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		166
	DisplayOutput < DispOutpt>	[01]	±		166

10.1.2.1.9.1 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 519):

• Meaning When True: True

· Meaning When False: False

10.1.2.1.9.2 ForceEntryMode <ForceNtryMd>

Presence: [0..*]

Definition: Payment instrument entry mode requested by the Sale System.

Datatype: "CardDataReading8Code" on page 482

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.

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

10.1.2.1.9.3 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 519):

• Meaning When True: True

· Meaning When False: False

10.1.2.1.9.4 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Maximum time in seconds that the POI has to wait for a card response.

Datatype: "Number" on page 519

10.1.2.1.9.5 DisplayOutput < DispOutpt>

Presence: [0..1]

Definition: Information to display.

DisplayOutput <DispOutpt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier <infqlfr></infqlfr>	[01]	CodeSet		357
	Format < Frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode < OutptBrcd>	[01]			358
	BarcodeType <brcdtp></brcdtp>	[11]	CodeSet		359
	BarcodeValue < BrcdVal>	[01]	Text		359
	QRCodeBinaryValue < QRCdBinryVal>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag < RspnReqrdFlg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.2.1.10 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< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Class <clss></clss>	[11]	Binary		167
	Instruction <instr></instr>	[11]	Binary		167
	Parameter1 < Param1>	[11]	Binary		167
	Parameter2 < Param2 >	[11]	Binary		167
	Data < Data >	[01]	Binary		167
	ExpectedLength <xpctdlngth></xpctdlngth>	[01]	Binary		167

10.1.2.1.10.1 Class <Clss>

Presence: [1..1]

Definition: Class field of the Application Protocol Data Unit command (CLA).

Datatype: "Min1Max256Binary" on page 467

10.1.2.1.10.2 Instruction <Instr>

Presence: [1..1]

Definition: Instruction field of the Application Protocol Data Unit command (INS).

Datatype: "Min1Max256Binary" on page 467

10.1.2.1.10.3 Parameter1 <Param1>

Presence: [1..1]

Definition: Parameter 1 field of the Application Protocol Data Unit command

Datatype: "Min1Max256Binary" on page 467

10.1.2.1.10.4 Parameter2 < Param2>

Presence: [1..1]

Definition: Parameter 2 field of the Application Protocol Data Unit command

Datatype: "Min1Max256Binary" on page 467

10.1.2.1.10.5 Data < Data >

Presence: [0..1]

Definition: Data field of the Application Protocol Data Unit command to send including the length.

Datatype: "Min1Max256Binary" on page 467

10.1.2.1.10.6 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 467

10.1.2.1.11 PowerOffCardReaderRequest < PwrOffCardRdrReq>

Presence: [0..1]

Definition: Content of the Power Off Card Reader Request message.

PowerOffCardReaderRequest < PwrOffCardRdrReq > contains the following

DevicePoweroffCardReaderRequest4 elements

Oı	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PowerOffMaximumWaitingTime < PwrOffMaxWtgTm>	[01]	Quantity		168
	DisplayOutput < DispOutpt>	[01]	±		168

168

10.1.2.1.11.1 PowerOffMaximumWaitingTime < PwrOffMaxWtgTm>

Presence: [0..1]

Definition: Maximum time to wait for the request processing in seconds.

Datatype: "Number" on page 519

10.1.2.1.11.2 DisplayOutput <DispOutpt>

Presence: [0..1]

Definition: Optional message before Power-Off.

DisplayOutput <DispOutpt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format <frmt></frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode < OutptBrcd>	[01]			358
	BarcodeType <brcdtp></brcdtp>	[11]	CodeSet		359
	BarcodeValue <i><brcdval></brcdval></i>	[01]	Text		359
	QRCodeBinaryValue < QRCdBinryVal>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag <rspnreqrdflg></rspnreqrdflg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.2.1.12 TransmissionRequest <TrnsmssnReq>

Presence: [0..1]

Definition: Content of the Request message to transmit.

TransmissionRequest <TrnsmssnReq> contains the following DeviceTransmitMessageRequest2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DestinationAddress < DstnAdr>	[11]	±		169
	MaximumTransmissionTime < MaxTrnsmssnTm>	[11]	Quantity		170
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		170
	MessageToSend < MsgToSnd>	[11]	Binary		170

10.1.2.1.12.1 DestinationAddress < DstnAdr>

Presence: [1..1]

Definition: Transport address.

DestinationAddress <DstnAdr> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr>	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.2.1.12.2 MaximumTransmissionTime <MaxTrnsmssnTm>

Presence: [1..1]

Definition: Maximum time in seconds of transmission.

Datatype: "Number" on page 519

10.1.2.1.12.3 MaximumWaitingTime <MaxWtgTm>

Presence: [0..1]

Definition: Defines the timeout to receive an answer.

Datatype: "Number" on page 519

10.1.2.1.12.4 MessageToSend <MsgToSnd>

Presence: [1..1]

Definition: Content of the message to be transmitted.

Datatype: "Max100KBinary" on page 465

10.1.2.1.13 InputNotification <InptNtfctn>

Presence: [0..1]

Definition: Content of the Input notification message.

InputNotification <InptNtfctn> contains the following DeviceInputNotification4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ExchangeIdentification < XchgId>	[11]	Text		170
	OutputContent < OutptCntt>	[11]	±		171

10.1.2.1.13.1 Exchangeldentification <Xchgld>

Presence: [1..1]

Definition: Message main identifier.

Datatype: "Max35Text" on page 523

10.1.2.1.13.2 OutputContent <OutptCntt>

Presence: [1..1]

Definition: Updated content of the message to display before input.

OutputContent <OutptCntt> contains the following elements (see <u>"ActionMessage9" on page 356</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format <frmt></frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode < OutptBrcd>	[01]			358
	BarcodeType <brcdtp></brcdtp>	[11]	CodeSet		359
	BarcodeValue < BrcdVal>	[01]	Text		359
	QRCodeBinaryValue < <i>QRCdBinryVal</i> >	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode <qrcdncodgmd></qrcdncodgmd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag <rspnreqrdflg></rspnreqrdflg>	[01]	Indicator		360
	MinimumDisplayTime <mindisptm></mindisptm>	[01]	Quantity		360

10.1.2.1.14 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 <u>"SupplementaryData1" on page 261</u> for details)

(Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		PlaceAndName < PlcAndNm>	[01]	Text		261
		Envelope < Envlp>	[11]	(External Schema)		261

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.

10.1.2.2 DeviceResponse5

Definition: This component define the type of Device service to be used with this message.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Environment < Envt>	[01]	±		174
	Context < Cntxt>	[01]	±		180
	ServiceContent <svccntt></svccntt>	[11]	CodeSet		183
	DisplayResponse <i><disprspn></disprspn></i>	[01]			183
	OutputResult < OutptRslt>	[1*]			184
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		184
	InformationQualifier < InfQlfr>	[11]	CodeSet		184
	Response < Rspn>	[11]	±		185
	InputResponse <inptrspn></inptrspn>	[01]			185
	OutputResult < OutptRslt>	[01]			186
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		186
	InformationQualifier < InfQlfr>	[11]	CodeSet		187
	Response < Rspn>	[11]	±		188
	InputResult <inptrslt></inptrslt>	[11]			188
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		188
	InformationQualifier < InfQlfr>	[11]	CodeSet		189
	InputResultData < InptRsItData>	[11]			189
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		190
	ConfirmedFlag < ConfdFlg>	[01]	Indicator		191
	FunctionKey < FctnKey>	[01]	Quantity		191
	InputMessage <inptmsg></inptmsg>	[01]	Text		191
	Password < <i>Pwd</i> >	[01]	±		191
	ImageCapturedSignature < ImgCaptrdSgntr>	[01]			192
	ImageFormat < ImgFrmt>	[11]	Text		192
	ImageData < ImgData>	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192
	PrintResponse < PrtRspn>	[01]			192
	DocumentQualifier < DocQlfr>	[11]	CodeSet		192
	SecureInputResponse <scrinptrspn></scrinptrspn>	[01]			193
	CardholderPIN < CrdhldrPIN>	[01]			193

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		194
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		194
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		194
	InitialisationCardReaderResponse	[01]			194
	CardEntryMode < CardNtryMd>	[01]	CodeSet		195
	ICCResetData <iccrstdata></iccrstdata>	[01]			195
	ATRValue < <i>ATRVal></i>	[01]	Binary		196
	CardStatus < CardSts>	[01]	Binary		196
	AdditionalInformation < AddtlInf>	[01]	Binary		196
	CardReaderApplicationProtocolDataUnitResponse <cardrdrapplprtcoldataunitrspn></cardrdrapplprtcoldataunitrspn>	[01]			196
	Data < Data >	[01]	Binary		196
	CardStatus < CardSts>	[11]	Binary		196
	TransmissionResponse < TrnsmssnRspn>	[01]			197
	ReceivedMessage < RcvdMsg>	[01]	Binary		197
	Response < Rspn>	[11]	±		197
	SupplementaryData <splmtrydata></splmtrydata>	[0*]	±	C5	197

10.1.2.2.1 Environment <Envt>

Presence: [0..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following elements (see <u>"CardPaymentEnvironment78" on page 281</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Acquirer <acqrr></acqrr>	[01]	±		287
	Merchant < Mrchnt>	[01]			287
	Identification <id></id>	[01]	±		287
	CommonName < CmonNm>	[01]	Text		288
	LocationCategory < LctnCtgy>	[01]	CodeSet		288
	LocationAndContact < LctnAndCtct>	[01]	±		288
	SchemeData < SchmeData >	[01]	Text		289
	POI <poi></poi>	[01]			289
	Identification <id></id>	[11]	±		289
	SystemName <sysnm></sysnm>	[01]	Text		290
	GroupIdentification < GrpId>	[01]	Text		290
	Capabilities < Cpblties>	[01]	±		290
	TimeZone < TmZone>	[01]	Text		291
	TerminalIntegration < TermnIIntgtn>	[01]	CodeSet		291
	Component < Cmpnt>	[0*]	±		292
	Card < Card>	[01]			294
	ProtectedCardData < PrtctdCardData >	[01]	±		295
	PrivateCardData < PrvtCardData >	[01]	Binary		295
	PlainCardData < PlainCardData >	[01]	±		295
	PaymentAccountReference < PmtAcctRef>	[01]	Text		296
	MaskedPAN < MskdPAN>	[01]	Text		296
	IssuerBIN	[01]	Text		296
	CardCountryCode < CardCtryCd>	[01]	Text		296
	CardCurrencyCode < CardCcyCd>	[01]	Text		296
	CardProductProfile < CardPdctPrfl>	[01]	Text		297
	CardBrand < CardBrnd>	[01]	Text		297
	CardProductType < CardPdctTp>	[01]	CodeSet		297
	CardProductSubType < CardPdctSubTp>	[01]	Text		297
	InternationalCard < IntrnlCard>	[01]	Indicator		297
	AllowedProduct <allwdpdct></allwdpdct>	[0*]	Text		297

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ServiceOption <svcoptn></svcoptn>	[01]	Text		298
	AdditionalCardData < AddtlCardData >	[01]	Text		298
	Check < Chck >	[01]			298
	BankIdentification < BkId>	[01]	Text		298
	AccountNumber <acctnb></acctnb>	[01]	Text		298
	CheckNumber < ChckNb>	[01]	Text		298
	CheckCardNumber < ChckCardNb>	[01]	Text		299
	CheckTrackData2 < ChckTrckData2 >	[01]		1	299
	TrackNumber < TrckNb>	[01]	Quantity		299
	TrackFormat < TrckFrmt>	[01]	CodeSet		299
	TrackValue <i><trckval></trckval></i>	[11]	Text		300
	CheckType <chcktp></chcktp>	[01]	CodeSet		300
	Country < <i>Ctry</i> >	[01]	Text		300
	StoredValueAccount < StordValAcct>	[0*]			300
	AccountType <accttp></accttp>	[01]	CodeSet		301
	IdentificationType <idtp></idtp>	[01]	CodeSet		302
	Identification <id></id>	[01]	Text		302
	Brand <brnd></brnd>	[01]	Text		302
	Provider < <i>Prvdr</i> >	[01]	Text		302
	OwnerName < OwnrNm>	[01]	Text		302
	ExpiryDate <xprydt></xprydt>	[01]	Text		303
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		303
	Currency < Ccy>	[01]	CodeSet	C1	303
	Balance <bal></bal>	[01]	Amount		304
	LoyaltyAccount <lltyacct></lltyacct>	[0*]	±		304
	CustomerDevice < CstmrDvc>	[01]	±		304
	Wallet < Wllt>	[01]	±		304
	PaymentToken < PmtTkn>	[01]	±		305
	MerchantToken < MrchntTkn>	[01]	±		305
	Cardholder < Crdhldr>	[01]			306
	Identification <id></id>	[01]			310

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		310
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		310
	DriverLicenseName < DrvrLicNm>	[01]	Text		311
	DriverIdentification < DrvrId>	[01]	Text		311
	CustomerNumber < CstmrNb>	[01]	Text		311
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		311
	AlienRegistrationNumber <ainregnnb></ainregnnb>	[01]	Text		311
	PassportNumber < PsptNb>	[01]	Text		311
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		311
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		311
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		312
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		312
	JobNumber < JobNb>	[01]	Text		312
	Department < Dept>	[01]	Text		312
	EmailAddress < EmailAdr>	[01]	Text		312
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			312
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	С3	313
	Other < Othr>	[0*]	±		313
	Name <nm></nm>	[01]	Text		313
	Language <i><lang></lang></i>	[01]	CodeSet	C6	313
	BillingAddress < BllgAdr>	[01]	±		314
	ShippingAddress < ShppgAdr>	[01]	±		314
	TripNumber <i><tripnb></tripnb></i>	[01]	Text		315
	Vehicle < Vhcl>	[01]	±		315
	Authentication < Authntcn>	[0*]			316
	AuthenticationMethod < AuthntcnMtd>	[01]	CodeSet		318
	AuthenticationExemption < AuthntcnXmptn>	[01]	CodeSet		319
	AuthenticationValue < AuthntcnVal>	[01]	Binary		320

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ProtectedAuthenticationValue < PrtctdAuthntcnVal>	[01]	±		320
	CardholderOnLinePIN < CrdhldrOnLinePIN>	[01]			320
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput < AddtlInpt>	[01]	Text		321
	CardholderIdentification < Crdhldrld>	[01]			321
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber < CstmrNb>	[01]	Text		323
	SocialSecurityNumber < SclSctyNb>	[01]	Text		323
	AlienRegistrationNumber <ainregnnb></ainregnnb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		324
	JobNumber < JobNb>	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325
	Other < Othr>	[0*]	±		325
	AddressVerification < AdrVrfctn>	[01]			325
	AddressDigits < AdrDgts>	[01]	Text		325
	PostalCodeDigits < PstlCdDgts>	[01]	Text		326
	AuthenticationType <authntcntp></authntcntp>	[01]	Text		326

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AuthenticationLevel < AuthntcnLvl>	[01]	Text		326
	AuthenticationResult < AuthntcnRslt>	[01]	CodeSet		326
	AuthenticationAdditionalInformation < AuthntcnAddtlInf >	[01]			326
	Identification <id></id>	[11]	Text		327
	Value <val></val>	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type <tp></tp>	[01]	Text		327
	TransactionVerificationResult <txvrfctnrslt></txvrfctnrslt>	[0*]			327
	Method < Mtd>	[11]	CodeSet		328
	VerificationEntity < VrfctnNtty>	[01]	CodeSet		329
	Result <rs t=""></rs>	[01]	CodeSet		329
	AdditionalResult < AddtlRslt>	[01]	Text		329
	PersonalData < PrsnlData >	[01]	Text		330
	MobileData < MobData >	[0*]			330
	MobileCountryCode < MobCtryCd>	[01]	Text		330
	MobileNetworkCode < MobNtwkCd>	[01]	Text		330
	MobileMaskedMSISDN < MobMskdMSISDN>	[01]	Text		331
	Geolocation < Glctn>	[01]			331
	GeographicCoordinates < GeogcCordints>	[01]			331
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		332
	SensitiveMobileData < SnstvMobData>	[01]			332
	MSISDN < MSISDN>	[11]	Text		333
	IMSI <imsi></imsi>	[01]	Text		333
	IMEI <imei></imei>	[01]	Text		333
	ProtectedMobileData < PrtctdMobData >	[01]	±		333
	ProtectedCardholderData < PrtctdCrdhldrData>	[01]	±		333

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	SaleEnvironment <saleenvt></saleenvt>	[01]			334
	SaleCapabilities <salecpblties></salecpblties>	[0*]	CodeSet		334
	Currency < Ccy>	[01]	CodeSet	C1	335
	MinimumAmountToDeliver < MinAmtToDlvr>	[01]	Amount		335
	MaximumCashBackAmount < MaxCshBckAmt>	[01]	Amount		335
	MinimumSplitAmount < MinSpltAmt>	[01]	Amount		336
	DebitPreferredFlag < DbtPrefrdFlg>	[01]	Indicator		336
	LoyaltyHandling <lltyhdlg></lltyhdlg>	[01]	CodeSet		336

10.1.2.2.2 Context <Cntxt>

Presence: [0..1]

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

Context <Cntxt> contains the following elements (see <u>"CardPaymentContext29" on page 336</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PaymentContext < PmtCntxt>	[01]			339
	CardPresent < CardPres>	[01]	Indicator		339
	CardholderPresent < CrdhldrPres>	[01]	Indicator		339
	OnLineContext < OnLineCntxt>	[01]	Indicator		340
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		340
	TransactionEnvironment <txenvt></txenvt>	[01]	CodeSet		340
	TransactionChannel <txchanl></txchanl>	[01]	CodeSet		340
	BusinessArea < BizArea >	[01]	CodeSet		341
	AttendantMessageCapable < AttndntMsgCpbl>	[01]	Indicator		341
	AttendantLanguage < AttndntLang>	[01]	CodeSet	C6	341
	CardDataEntryMode < CardDataNtryMd>	[01]	CodeSet		342
	FallbackIndicator < FllbckInd>	[01]	CodeSet		342
	SupportedOption <spprtdoptn></spprtdoptn>	[0*]	CodeSet		343
	SaleContext <salecntxt></salecntxt>	[01]			343
	SaleIdentification <saleid></saleid>	[01]	Text		344
	SaleReferenceNumber <salerefnb></salerefnb>	[01]	Text		344
	SaleReconciliationIdentification < SaleRcncltnId>	[01]	Text		345
	CashierIdentification < Cshrld>	[01]	Text		345
	CashierLanguage < CshrLang>	[0*]	CodeSet	C6	345
	ShiftNumber <shftnb></shftnb>	[01]	Text		345
	CustomerOrderRequestFlag <cstmrordrreqflg></cstmrordrreqflg>	[01]	Indicator		345
	PurchaseOrderNumber < PurchsOrdrNb>	[01]	Text		345
	InvoiceNumber <invcnb></invcnb>	[01]	Text		345
	DeliveryNoteNumber < DlvryNoteNb>	[01]	Text		346
	SponsoredMerchant < SpnsrdMrchnt>	[0*]			346
	CommonName < CmonNm>	[11]	Text		346
	Address < Adr>	[01]	Text		346
	CountryCode < CtryCd>	[11]	CodeSet		346
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		346
	RegisteredIdentifier < RegdIdr>	[11]	Text		346

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	SplitPayment < SpltPmt>	[01]	Indicator		347
	RemainingAmount < RmngAmt>	[01]	Amount		347
	ForceOnlineFlag <forceonlnflg></forceonlnflg>	[01]	Indicator		347
	ReuseCardDataFlag < ReuseCardDataFlg>	[01]	Indicator		347
	AllowedEntryMode <allwdntrymd></allwdntrymd>	[0*]	CodeSet		347
	SaleTokenScope <saletknscp></saletknscp>	[01]	CodeSet		348
	AdditionalSaleData < AddtlSaleData >	[01]	Text		348
	DirectDebitContext < DrctDbtCntxt>	[01]			348
	DebtorIdentification < Dbtrld>	[01]			349
	Debtor < Dbtr>	[01]			350
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address < Adr>	[11]	±		351
	AccountIdentification < AcctId>	[01]			352
{Or	IBAN < <i>IBAN</i> >	[11]	IdentifierSet	C4	352
Or	BBAN < <i>BBAN</i> >	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount < DmstAcct>	[11]			353
	Identification <id></id>	[11]	Text		353
	CreditorIdentification < Cdtrld>	[11]			353
	Creditor < Cdtr>	[11]			354
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name <nm></nm>	[11]	Text		355
	Address < Adr>	[11]	±		355
	RegistrationIdentification < RegnId>	[01]	Text		355
	MandateRelatedInformation < MndtRltdInf>	[11]			355
	MandateIdentification < Mndtld>	[11]	Text		356

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DateOfSignature < DtOfSgntr>	[01]	Date		356
	MandateImage < MndtImg>	[01]	Binary		356

10.1.2.2.3 ServiceContent <SvcCntt>

Presence: [1..1]

Definition: Define the type of service answered.

Datatype: "RetailerService9Code" on page 509

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	DeviceSendApplicationProtocolDataUnitCardRe aderResponse	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.

10.1.2.2.4 DisplayResponse < DispRspn>

Presence: [0..1]

Definition: Content of the Display Response message.

DisplayResponse < DispRspn> contains the following DeviceDisplayResponse2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	OutputResult < OutptRslt>	[1*]			184
	DeviceType <dvctp></dvctp>	[11]	CodeSet		184
	InformationQualifier <infqlfr></infqlfr>	[11]	CodeSet		184
	Response <rspn></rspn>	[11]	±		185

10.1.2.2.4.1 OutputResult <OutptRsIt>

Presence: [1..*]

Definition: Give result for display request.

OutputResult < OutptRsIt> contains the following OutputResult2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DeviceType < <i>DvcTp</i> >	[11]	CodeSet		184
	InformationQualifier < InfQlfr>	[11]	CodeSet		184
	Response < Rspn>	[11]	±		185

10.1.2.2.4.1.1 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 517

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.

10.1.2.2.4.1.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 491

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

CodeName	Name	Definition
		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.

10.1.2.2.4.1.3 Response <Rspn>

Presence: [1..1]

Definition: Gives response for each peripheral.

Response <Rspn> contains the following elements (see "ResponseType11" on page 378 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Response <rspn></rspn>	[11]	CodeSet		378
	ResponseReason < RspnRsn>	[01]	CodeSet		379
	AdditionalResponseInformation < AddtlRspnInf>	[01]	Text		380

10.1.2.2.5 InputResponse <InptRspn>

Presence: [0..1]

Definition: Content of the Input Response message.

InputResponse <InptRspn> contains the following DeviceInputResponse4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	OutputResult < OutptRslt>	[01]			186
	DeviceType < <i>DvcTp</i> >	[11]	CodeSet		186
	InformationQualifier < InfQlfr>	[11]	CodeSet		187
	Response <rspn></rspn>	[11]	±		188
	InputResult <inptrslt></inptrslt>	[11]			188
	DeviceType < <i>DvcTp</i> >	[11]	CodeSet		188
	InformationQualifier < InfQlfr>	[11]	CodeSet		189
	InputResultData < InptRsltData>	[11]			189
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		190
	ConfirmedFlag < ConfdFlg>	[01]	Indicator		191
	FunctionKey < FctnKey>	[01]	Quantity		191
	InputMessage <inptmsg></inptmsg>	[01]	Text		191
	Password < <i>Pwd</i> >	[01]	±		191
	ImageCapturedSignature < ImgCaptrdSgntr>	[01]			192
	ImageFormat < ImgFrmt>	[11]	Text		192
	ImageData < ImgData>	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192

10.1.2.2.5.1 OutputResult <OutptRsIt>

Presence: [0..1]

Definition: Result of display request.

OutputResult <OutptRsIt> contains the following OutputResult2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DeviceType < <i>DvcTp</i> >	[11]	CodeSet		186
	InformationQualifier < InfQlfr>	[11]	CodeSet		187
	Response <rspn></rspn>	[11]	±		188

10.1.2.2.5.1.1 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 517

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.

10.1.2.2.5.1.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 491

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.

10.1.2.2.5.1.3 Response < Rspn>

Presence: [1..1]

Definition: Gives response for each peripheral.

Response <Rspn> contains the following elements (see "ResponseType11" on page 378 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Response <rspn></rspn>	[11]	CodeSet		378
	ResponseReason < RspnRsn>	[01]	CodeSet		379
	AdditionalResponseInformation < AddtlRspnInf>	[01]	Text		380

10.1.2.2.5.2 InputResult <InptRsIt>

Presence: [1..1]

Definition: Result of input request.

InputResult <InptRsit> contains the following InputResult4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DeviceType <dvctp></dvctp>	[11]	CodeSet		188
	InformationQualifier < InfQlfr>	[11]	CodeSet		189
	InputResultData <inptrsltdata></inptrsltdata>	[11]			189
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		190
	ConfirmedFlag < ConfdFlg>	[01]	Indicator		191
	FunctionKey < FctnKey>	[01]	Quantity		191
	InputMessage <inptmsg></inptmsg>	[01]	Text		191
	Password < Pwd>	[01]	±		191
	ImageCapturedSignature < ImgCaptrdSgntr>	[01]			192
	ImageFormat < ImgFrmt>	[11]	Text		192
	ImageData < ImgData>	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192

10.1.2.2.5.2.1 DeviceType <DvcTp>

Presence: [1..1]

Definition: Type of Input device.

Datatype: "SaleCapabilities2Code" on page 510

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

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CodeName	Name	Definition		
		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).		

10.1.2.2.5.2.2 InformationQualifier <InfQlfr>

Presence: [1..1]

Definition: Qualifies the type of given information.

Datatype: "InformationQualify1Code" on page 491

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.

10.1.2.2.5.2.3 InputResultData <InptRsItData>

Presence: [1..1]

Definition: Data resulting of input after POI or Sale processing.

InputResultData <InptRsItData> contains the following InputResultData4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		190
	ConfirmedFlag < ConfdFlg>	[01]	Indicator		191
	FunctionKey < FctnKey>	[01]	Quantity		191
	InputMessage <inptmsg></inptmsg>	[01]	Text		191
	Password < Pwd>	[01]	±		191
	ImageCapturedSignature < ImgCaptrdSgntr>	[01]			192
	ImageFormat < ImgFrmt>	[11]	Text		192
	ImageData < ImgData>	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192

10.1.2.2.5.2.3.1 InputCommand <InptCmd>

Presence: [1..1]

Definition: Type of processed input.

Datatype: "InputCommand1Code" on page 492

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.

10.1.2.2.5.2.3.2 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.2.2.5.2.3.3 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 519

10.1.2.2.5.2.3.4 InputMessage <InptMsg>

Presence: [0..1]

Definition: The input text and data given by the POI or the Sale System.

Datatype: "Max20000Text" on page 522

10.1.2.2.5.2.3.5 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 <u>"ContentInformationType30" on page 430</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

10.1.2.2.5.2.3.6 ImageCapturedSignature < ImgCaptrdSgntr>

Presence: [0..1]

Definition: Numeric value of a handwritten signature.

ImageCapturedSignature < ImgCaptrdSgntr> contains the following CapturedSignature1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ImageFormat <imgfrmt></imgfrmt>	[11]	Text		192
	ImageData < ImgData>	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192

10.1.2.2.5.2.3.6.1 ImageFormat < ImgFrmt>

Presence: [1..1]

Definition: Format of the image.

Datatype: "Max35Text" on page 523

10.1.2.2.5.2.3.6.2 ImageData < ImgData >

Presence: [0..1]

Definition: Data of the image.

Datatype: "Max2MBBinary" on page 466

10.1.2.2.5.2.3.6.3 ImageReference < ImgRef>

Presence: [0..1]

Definition: URL or name of the image.

Datatype: "Max500Text" on page 524

10.1.2.2.5.2.3.6.4 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information for the image.

Datatype: "Max140Text" on page 522

10.1.2.2.6 PrintResponse < PrtRspn>

Presence: [0..1]

Definition: Content of the Print Response message.

PrintResponse < PrtRspn> contains the following DevicePrintResponse1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DocumentQualifier < DocQlfr>	[11]	CodeSet		192

10.1.2.2.6.1 DocumentQualifier < DocQlfr>

Presence: [1..1]

Definition: Qualification of the document printed to the Cashier or the Customer.

Datatype: "DocumentType7Code" on page 489

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.

10.1.2.2.7 SecureInputResponse <ScrInptRspn>

Presence: [0..1]

Definition: Response to a secure input request.

SecureInputResponse <ScrInptRspn> contains the following DeviceSecureInputResponse4 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	CardholderPIN < CrdhldrPIN>	[01]			193
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		194
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		194
	AdditionalInput < AddtlInpt>	[01]	Text		194

10.1.2.2.7.1 CardholderPIN < CrdhldrPIN>

Presence: [0..1]

Definition: Cardholder PIN data when needed.

CardholderPIN < CrdhldrPIN> contains the following OnLinePIN9 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		194
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		194
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		194

10.1.2.2.7.1.1 EncryptedPINBlock < NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see

"ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType <cntttp></cntttp>	[11]	CodeSet		428
	EnvelopedData < EnvlpdData>	[11]	±		429

10.1.2.2.7.1.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 501

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.

10.1.2.2.7.1.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 523

10.1.2.2.8 InitialisationCardReaderResponse <InitIstnCardRdrRspn>

Presence: [0..1]

Definition: Content received after a card initialisation.

InitialisationCardReaderResponse <InitIstnCardRdrRspn> contains the following DeviceInitialisationCardReaderResponse2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	CardEntryMode < CardNtryMd>	[01]	CodeSet		195
	ICCResetData	[01]			195
	ATRValue < <i>ATRVal</i> >	[01]	Binary		196
	CardStatus < CardSts>	[01]	Binary		196
	AdditionalInformation < AddtlInf>	[01]	Binary		196

10.1.2.2.8.1 CardEntryMode <CardNtryMd>

Presence: [0..1]

Definition: Payment instrument entry mode requested by the Sale System.

Datatype: "CardDataReading8Code" on page 482

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.)

10.1.2.2.8.2 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=""></xml>	Mult.	Туре	Constr. No.	Page
	ATRValue < <i>ATRVal</i> >	[01]	Binary		196
	CardStatus < CardSts>	[01]	Binary		196

10.1.2.2.8.2.1 ATRValue < ATRVal>

Presence: [0..1]

Definition: Value of the Answer To Reset of a chip card.

Datatype: "Max140Binary" on page 466

10.1.2.2.8.2.2 CardStatus < CardSts>

Presence: [0..1]

Definition: Status of a smartcard response to a command (SW1-SW2).

Datatype: "Max35Binary" on page 467

10.1.2.2.8.3 AdditionalInformation <AddtlInf>

Presence: [0..1]

Definition: Additional information about the Device Initialisation Card Reader Response.

Datatype: "Max10000Binary" on page 465

10.1.2.2.9 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< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Data < Data >	[01]	Binary		196
	CardStatus < CardSts>	[11]	Binary		196

10.1.2.2.9.1 Data <Data>

Presence: [0..1]

Definition: Class field of the Application Protocol Data Unit command (CLA).

Datatype: "Min1Max256Binary" on page 467

10.1.2.2.9.2 CardStatus < CardSts>

Presence: [1..1]

Definition: Status of a smartcard response to a command (SW1-SW2). Reference: ISO 7816-4.

Datatype: "Min1Max256Binary" on page 467

10.1.2.2.10 TransmissionResponse < TrnsmssnRspn>

Presence: [0..1]

Definition: Content of the Transmit Response message.

TransmissionResponse <TrnsmssnRspn> contains the following DeviceTransmitMessageResponse1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ReceivedMessage < RcvdMsg>	[01]	Binary		197

10.1.2.2.10.1 ReceivedMessage <RcvdMsg>

Presence: [0..1]

Definition: Content of a transmitted message.

Datatype: "Max100KBinary" on page 465

10.1.2.2.11 Response < Rspn>

Presence: [1..1]

Definition: Result of the processing of the request.

Response <Rspn> contains the following elements (see "ResponseType11" on page 378 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Response < Rspn>	[11]	CodeSet		378
	ResponseReason < RspnRsn>	[01]	CodeSet		379
	AdditionalResponseInformation < AddtlRspnInf>	[01]	Text		380

10.1.2.2.12 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 <u>"SupplementaryData1" on page 261</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PlaceAndName < PlcAndNm>	[01]	Text		261
	Envelope < Envlp>	[11]	(External Schema)		261

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.

10.1.3 Address

10.1.3.1 CommunicationAddress9

Definition: Communication information.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PostalAddress < PstlAdr>	[01]	±		198
	Email < <i>Email</i> >	[01]	Text		198
	URLAddress < URLAdr>	[01]	Text		199
	Phone <phne></phne>	[01]	Text		199
	CustomerService < CstmrSvc>	[01]	Text		199
	AdditionalContactInformation < AddtlCtctInf>	[01]	Text		199

10.1.3.1.1 PostalAddress <PstlAdr>

Presence: [0..1]

Definition: Postal address of the entity.

PostalAddress <PstIAdr> contains the following elements (see <u>"PostalAddress22" on page 401</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AddressType < <i>AdrTp</i> >	[01]	CodeSet		402
	Department < Dept>	[01]	Text		402
	SubDepartment < SubDept>	[01]	Text		402
	AddressLine <adrline></adrline>	[02]	Text		402
	StreetName <strtnm></strtnm>	[01]	Text		403
	BuildingNumber < BldgNb>	[01]	Text		403
	PostCode <pstcd></pstcd>	[01]	Text		403
	TownName < TwnNm>	[01]	Text		403
	CountrySubDivision < CtrySubDvsn>	[02]	Text		403
	CountryCode < CtryCd>	[01]	Text		403

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10.1.3.1.2 Email < Email>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 522

10.1.3.1.3 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 522

10.1.3.1.4 Phone < Phne>

Presence: [0..1]

Definition: Collection of information that identifies a phone number, as defined by telecom services.

Datatype: "PhoneNumber" on page 527

10.1.3.1.5 CustomerService <CstmrSvc>

Presence: [0..1]

Definition: Phone number of the customer service.

Datatype: "PhoneNumber" on page 527

10.1.3.1.6 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 522

10.1.4 Card

10.1.4.1 PlainCardData15

Definition: Sensible data associated with the payment card performing the transaction.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PAN <pan></pan>	[11]	Text		200
	CardSequenceNumber < CardSeqNb>	[01]	Text		200
	EffectiveDate <fctvdt></fctvdt>	[01]	Text		200
	ExpiryDate <xprydt></xprydt>	[11]	Text		200
	ServiceCode <svccd></svccd>	[01]	Text		200
	Track1 < Trck1>	[01]	Text		200
	Track2 < Trck2 >	[01]	Text		200
	Track3 < Trck3>	[01]	Text		200
	CardholderName < CrdhldrNm>	[01]	Text		201

10.1.4.1.1 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 526

10.1.4.1.2 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 526

10.1.4.1.3 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 521

10.1.4.1.4 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 521

10.1.4.1.5 ServiceCode <SvcCd>

Presence: [0..1]

Definition: Services attached to the card, as defined in ISO 7813.

Datatype: "Exact3NumericText" on page 520

10.1.4.1.6 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 525

10.1.4.1.7 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 524

10.1.4.1.8 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 521

10.1.4.1.9 CardholderName < CrdhldrNm>

Presence: [0..1]

Definition: Name of the cardholder stored on the card.

Datatype: "Max45Text" on page 524

10.1.5 Configuration

10.1.5.1 HostCommunicationParameter6

Definition: Configuration parameters to communicate with a host.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		201
	HostIdentification < Hstld>	[11]	Text		202
	Address <adr></adr>	[01]	±		202
	Key <key></key>	[0*]			202
	Keyldentification < Keyld>	[11]	Text		203
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		203
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		203
	DerivationIdentification < DerivtnId>	[01]	Binary		203
	Type <tp></tp>	[01]	CodeSet		203
	Function < Fctn>	[0*]	CodeSet		204
	NetworkServiceProvider < NtwkSvcPrvdr>	[01]	±		205
	PhysicalInterface < PhysIntrfc>	[01]			205
	InterfaceName < IntrfcNm>	[11]	Text		206
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		206
	UserName < <i>UsrNm</i> >	[01]	Text		206
	AccessCode <accscd></accscd>	[01]	Binary		206
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		207
	AdditionalParameters < AddtlParams>	[01]	Binary		207

10.1.5.1.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.1.2 HostIdentification <HstId>

Presence: [1..1]

Definition: Identification of the host.

Datatype: "Max35Text" on page 523

10.1.5.1.3 Address <Adr>

Presence: [0..1]

Definition: Network parameters of the host.

Address <Adr> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address <adr></adr>	[1*]			400
	NetworkType <ntwktp></ntwktp>	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

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10.1.5.1.4 Key <Key>

Presence: [0..*]

Definition: Cryptographic key used to communicate with the host.

Key <Key> contains the following KEKIdentifier5 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		203
	KeyVersion < KeyVrsn>	[11]	Text		203
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		203
	DerivationIdentification < DerivtnId>	[01]	Binary		203
	Type < <i>Tp</i> >	[01]	CodeSet		203
	Function < Fctn>	[0*]	CodeSet		204

10.1.5.1.4.1 Keyldentification <Keyld>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.5.1.4.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.5.1.4.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 519

10.1.5.1.4.4 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 468

10.1.5.1.4.5 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 486

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).

CodeName	Name	Definition
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).

10.1.5.1.4.6 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 493

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).

CodeName	Name	Definition
KEYG	KeyGeneration	Key may generate keys.
KEYI	KeyImport	Key may import keys.
KEYX	KeyExport	Key may export keys.
KEYD	KeyDerivation	Key may derive keys.

10.1.5.1.5 NetworkServiceProvider < NtwkSvcPrvdr>

Presence: [0..1]

Definition: Access information to reach an intermediate network service provider.

NetworkServiceProvider <NtwkSvcPrvdr> contains the following elements (see

"NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr>	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode < AccsCd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier <svrcertidr></svrcertidr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.5.1.6 PhysicalInterface < PhysIntrfc>

Presence: [0..1]

Definition: Physical Interface where the host is connected.

PhysicalInterface < PhysIntrfc > contains the following PhysicalInterfaceParameter1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	InterfaceName < IntrfcNm>	[11]	Text		206
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		206
	UserName < UsrNm>	[01]	Text		206
	AccessCode <accscd></accscd>	[01]	Binary		206
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		207
	AdditionalParameters < AddtlParams>	[01]	Binary		207

10.1.5.1.6.1 InterfaceName <IntrfcNm>

Presence: [1..1]

Definition: Identification of the interface.

Datatype: "Max35Text" on page 523

10.1.5.1.6.2 InterfaceType <IntrfcTp>

Presence: [0..1]

Definition: Identification of the physical link layer.

Datatype: "POICommunicationType2Code" on page 501

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.

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10.1.5.1.6.3 UserName <UsrNm>

Presence: [0..1]

Definition: Optional user name to provide to use this interface.

Datatype: "Max35Text" on page 523

10.1.5.1.6.4 AccessCode <AccsCd>

Presence: [0..1]

Definition: Optional access code to provide to use this interface.

Datatype: "Max35Binary" on page 467

10.1.5.1.6.5 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the optional security profile to use with this interface.

Datatype: "Max35Text" on page 523

10.1.5.1.6.6 AdditionalParameters < AddtlParams>

Presence: [0..1]

Definition: Any other parameters relevant for this interface.

Datatype: "Max2KBinary" on page 466

10.1.5.2 TerminalPackageType3

Definition: Group of software packages related to a group of POIComponent of the POI System.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	POIComponentIdentification < POICmpntId>	[0*]			207
	ItemNumber	[01]	Text		208
	ProviderIdentification < Prvdrld>	[01]	Text		208
	Identification	[01]	Text		208
	SerialNumber < <i>SrlNb</i> >	[01]	Text		208
	Package < <i>Packg</i> >	[1*]			208
	PackageIdentification < PackgId>	[01]	±		209
	PackageLength < PackgLngth>	[01]	Quantity		209
	OffsetStart < OffsetStart>	[01]	Quantity		209
	OffsetEnd < OffsetEnd>	[01]	Quantity		209
	PackageBlock < PackgBlck>	[0*]			210
	Identification <id></id>	[11]	Text		210
	Value < <i>Val</i> >	[01]	Binary		210
	ProtectedValue < PrtctdVal>	[01]	±		210
	Type <tp></tp>	[01]	Text		211

10.1.5.2.1 POIComponentIdentification <POICmpntId>

Presence: [0..*]

Definition: Identification of the POI (Point Of Interaction) component.

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POIComponentIdentification < POICmpntId > contains the following PointOfInteractionComponentIdentification2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ItemNumber <itmnb></itmnb>	[01]	Text		208
	ProviderIdentification < Prvdrld>	[01]	Text		208
	Identification	[01]	Text		208
	SerialNumber < <i>SrlNb</i> >	[01]	Text		208

10.1.5.2.1.1 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 523

10.1.5.2.1.2 ProviderIdentification < Prvdrld>

Presence: [0..1]

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

Datatype: "Max35Text" on page 523

10.1.5.2.1.3 Identification <Id>

Presence: [0..1]

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

Datatype: "Max256Text" on page 522

10.1.5.2.1.4 SerialNumber <SrlNb>

Presence: [0..1]

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

Datatype: "Max256Text" on page 522

10.1.5.2.2 Package <Packg>

Presence: [1..*]

Definition: Chunk of a software package.

Package < Packg> contains the following Package Type 3 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PackageIdentification < PackgId>	[01]	±		209
	PackageLength < PackgLngth>	[01]	Quantity		209
	OffsetStart < OffsetStart>	[01]	Quantity		209
	OffsetEnd < OffsetEnd>	[01]	Quantity		209
	PackageBlock < PackgBlck>	[0*]			210
	Identification	[11]	Text		210
	Value < <i>Val</i> >	[01]	Binary		210
	ProtectedValue < PrtctdVal>	[01]	±		210
	Type < <i>Tp</i> >	[01]	Text		211

10.1.5.2.2.1 PackageIdentification < Packgld>

Presence: [0..1]

Definition: Identification of the software packages of which the chunk belongs.

PackageIdentification <Packgld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type <tp></tp>	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.5.2.2.2 PackageLength <PackgLngth>

Presence: [0..1]

Definition: Full length of software package identified through PackageIdentification.

Datatype: "PositiveNumber" on page 520

10.1.5.2.2.3 OffsetStart < OffsetStart>

Presence: [0..1]

Definition: Place of the first following PackageBlock, beginning with 0, in the full software package

identified through PackageIdentification.

Datatype: "PositiveNumber" on page 520

10.1.5.2.2.4 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 520

10.1.5.2.2.5 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 ExternallyDefinedData3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		210
	Value < Val>	[01]	Binary		210
	ProtectedValue < PrtctdVal>	[01]	±		210
	Type < <i>Tp</i> >	[01]	Text		211

10.1.5.2.2.5.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 521

10.1.5.2.2.5.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 465

10.1.5.2.2.5.3 ProtectedValue < PrtctdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrtctdVal> contains the following elements (see <u>"ContentInformationType30" on page 430 for details)</u>

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData <authntcddata></authntcddata>	[01]	±		432
	SignedData < SgndData >	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

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10.1.5.2.2.5.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

Datatype: "Max1025Text" on page 521

10.1.5.3 SaleToPOIProtocolParameter2

Definition: Configuration parameters to communicate with a sale system.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		211
	MerchantIdentification < MrchntId>	[01]			211
	CommonName < CmonNm>	[11]	Text		212
	Address < Adr>	[01]	Text		212
	CountryCode <ctrycd></ctrycd>	[11]	CodeSet		212
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		212
	RegisteredIdentifier < RegdIdr>	[11]	Text		212
	Version < Vrsn>	[11]	Text		212
	HostIdentification <hstid></hstid>	[11]	Text		213
	MerchantPOIIdentification < MrchntPOIId>	[01]	Text		213
	SaleIdentification <saleid></saleid>	[01]	Text		213
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		213

10.1.5.3.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

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10.1.5.3.2 MerchantIdentification < MrchntId>

Presence: [0..1]

Definition: Identification of the merchant.

MerchantIdentification < MrchntId> contains the following Organisation 26 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	CommonName < CmonNm>	[11]	Text		212
	Address < Adr >	[01]	Text		212
	CountryCode < CtryCd>	[11]	CodeSet		212
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		212
	RegisteredIdentifier < RegdIdr>	[11]	Text		212

10.1.5.3.2.1 CommonName < CmonNm>

Presence: [1..1]

Definition: Name of the merchant. Datatype: "Max70Text" on page 525

10.1.5.3.2.2 Address <Adr>

Presence: [0..1]

Definition: Location of the merchant. Datatype: "Max140Text" on page 522

10.1.5.3.2.3 CountryCode <CtryCd>

Presence: [1..1]

Definition: Country of the merchant.

Datatype: "ISO3NumericCountryCode" on page 492

10.1.5.3.2.4 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 526

10.1.5.3.2.5 RegisteredIdentifier < RegdIdr>

Presence: [1..1]

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

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Datatype: "Max35Text" on page 523

10.1.5.3.3 Version < Vrsn>

Presence: [1..1]

Definition: Version of the parameters. Datatype: "Max256Text" on page 522

10.1.5.3.4 HostIdentification <HstId>

Presence: [1..1]

Definition: Identification used to retrieve HostCommunicationParameters.

Datatype: "Max35Text" on page 523

10.1.5.3.5 MerchantPOlldentification < MrchntPOlld>

Presence: [0..1]

Definition: Identification of the POI during communication with sale system.

Datatype: "Max35Text" on page 523

10.1.5.3.6 SaleIdentification <SaleId>

Presence: [0..1]

Definition: Identification of the SaleSystem connected to the POI.

Datatype: "Max35Text" on page 523

10.1.5.3.7 ExternallyTypeSupported <XtrnlyTpSpprtd>

Presence: [0..*]

Definition: List of types that the receiver supports and that the sender could use as type of an

ExternallyDefinedData message component.

Datatype: "Max1025Text" on page 521

10.1.5.4 SecurityParameters14

Definition: Parameters related to the security of software application and application protocol.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		213
	Version < Vrsn>	[11]	Text		214
	POIChallenge <poichllng></poichllng>	[01]	Binary		214
	TMChallenge < TMChllng>	[01]	Binary		214
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		214

10.1.5.4.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.

CodeName	Name	Definition
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.4.2 Version < Vrsn>

Presence: [1..1]

Definition: Version of the security parameters.

Datatype: "Max256Text" on page 522

10.1.5.4.3 POIChallenge <POIChling>

Presence: [0..1]

Definition: Point of interaction challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

10.1.5.4.4 TMChallenge <TMChling>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

10.1.5.4.5 SecurityElement <SctyElmt>

Presence: [0..*]

Definition: Key to inject in the point of interaction, protected by the temporary key previously sent.

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SecurityElement <SctyElmt> contains the following elements (see <u>"CryptographicKey16" on page 437</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		438
	AdditionalIdentification < Addtlld>	[01]	Binary		438
	Name <nm></nm>	[01]	Text		438
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		439
	ItemNumber	[01]	Text		439
	Version < Vrsn>	[11]	Text		439
	Type <tp></tp>	[01]	CodeSet		439
	Function < Fctn>	[0*]	CodeSet		440
	ActivationDate <actvtndt></actvtndt>	[01]	DateTime		440
	DeactivationDate < DeactvtnDt>	[01]	DateTime		440
	KeyValue <keyval></keyval>	[01]	±		441
	KeyCheckValue <keychckval></keychckval>	[01]	Binary		441
	AdditionalManagementInformation <addtlmgmtinf></addtlmgmtinf>	[0*]			441
	Name <nm></nm>	[11]	Text		441
	Value < <i>Val></i>	[01]	Text		441

10.1.5.5 ApplicationParameters11

Definition: Acceptor parameters dedicated to a payment application of the point of interaction.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		215
	ApplicationIdentification < ApplId>	[11]	Text		216
	Version < Vrsn>	[01]	Text		216
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		216
	ParametersLength < ParamsLngth>	[01]	Quantity		216
	OffsetStart < OffsetStart>	[01]	Quantity		216
	OffsetEnd < OffsetEnd>	[01]	Quantity		216
	Parameters < Params>	[0*]	Binary		216
	EncryptedParameters < NcrptdParams>	[01]	±		217

10.1.5.5.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.5.2 ApplicationIdentification < ApplId>

Presence: [1..1]

Definition: Identification of the payment application.

Datatype: "Max35Text" on page 523

10.1.5.5.3 Version < Vrsn>

Presence: [0..1]

Definition: Version of the payment application configuration parameters.

Datatype: "Max256Text" on page 522

10.1.5.5.4 ParameterFormatIdentifier <ParamFrmtIdr>

Presence: [0..1]

Definition: Version of the parameters' format.

Datatype: "Max8Text" on page 525

10.1.5.5.5 ParametersLength <ParamsLngth>

Presence: [0..1]

Definition: Full length of parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.5.6 OffsetStart < OffsetStart>

Presence: [0..1]

Definition: Place of this Block, beginning with 0, in the full parameters.

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Datatype: "PositiveNumber" on page 520

10.1.5.5.7 OffsetEnd <OffsetEnd>

Presence: [0..1]

Definition: Following place of this Block in the full parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.5.8 Parameters < Params>

Presence: [0..*]

Definition: Configuration parameters used by the related payment application.

Datatype: "Max100KBinary" on page 465

10.1.5.5.9 EncryptedParameters < NcrptdParams>

Presence: [0..1]

Definition: Sensitive parameters (sequence of parameters including the envelope) encrypted with a

cryptographic key.

EncryptedParameters < NcrptdParams > contains the following elements (see

"ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		428
	EnvelopedData < EnvlpdData>	[11]	±		429

10.1.5.6 ServiceProviderParameters2

Definition: Service provider parameters of the point of interaction (POI).

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		217
	ServiceProviderIdentification < SvcPrvdrld>	[1*]	±		218
	Version < Vrsn>	[11]	Text		218
	ApplicationIdentification < ApplId>	[0*]	Text		218
	Host <hst></hst>	[0*]			218
	HostIdentification < HstId>	[11]	Text		218
	MessageToSend < MsgToSnd>	[0*]	CodeSet		219
	ProtocolVersion < PrtcolVrsn>	[01]	Text		219
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		219
	NonFinancialActionSupported < NonFinActnSpprtd>	[0*]	CodeSet		220

10.1.5.6.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.

CodeName	Name	Definition
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.6.2 ServiceProviderIdentification <SvcPrvdrld>

Presence: [1..*]

Definition: Identification of the service provider.

ServiceProviderIdentification <SvcPrvdrld> contains the following elements (see

"GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.5.6.3 Version < Vrsn>

Presence: [1..1]

Definition: Version of the service provider parameters.

Datatype: "Max256Text" on page 522

10.1.5.6.4 ApplicationIdentification < ApplId>

Presence: [0..*]

Definition: Identification of payment application relevant for this service provider.

Datatype: "Max35Text" on page 523

10.1.5.6.5 Host <Hst>

Presence: [0..*]

Definition: Service provider host configuration.

Host <Hst> contains the following AcquirerHostConfiguration9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	HostIdentification < HstId>	[11]	Text		218
	MessageToSend < MsgToSnd>	[0*]	CodeSet		219
	ProtocolVersion < PrtcolVrsn>	[01]	Text		219
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		219

10.1.5.6.5.1 HostIdentification <HstId>

Presence: [1..1]

Definition: Identification of a host.

Datatype: "Max35Text" on page 523

10.1.5.6.5.2 MessageToSend <MsgToSnd>

Presence: [0..*]

Definition: Types of message to sent to this host.

Datatype: "MessageFunction43Code" on page 495

CodeName	Name	Definition
FAUQ	FinancialAuthorisationRequest	Request for authorisation with financial capture.
CCAQ	CancellationRequest	Request for cancellation.
CMPV	CompletionAdvice	Advice for completion without financial capture.
DGNP	DiagnosticRequest	Request for diagnostic.
RCLQ	ReconciliationRequest	Request for reconciliation.
CCAV	CancellationAdvice	Advice for cancellation.
втсн	BatchTransfer	Transfer the financial data as a collection of transction.
FRVA	FinancialReversalAdvice	Advice for reversal with financial capture.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
FCMV	FinancialCompletionAdvice	Advice for completion with financial capture.
DCCQ	CurrencyConversionRequest	Request for dynamic currency conversion.
RVRA	ReversalAdvice	Advice for reversal without financial capture.
DCAV	CurrencyConversionAdvice	Advice for dynamic currency conversion.
TRNA	TransactionAdvice	Advise of the transaction's processing.
NFRQ	NonFinancialRequest	Initiator of the message requests additional information to the receiver.
TRPQ	TransactionReportRequest	Request to receive of a report of transaction from the issuer to the receiver.

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10.1.5.6.5.3 ProtocolVersion < PrtcolVrsn>

Presence: [0..1]

Definition: Protocol version to use when using these parameters.

Datatype: "Max8Text" on page 525

10.1.5.6.5.4 ExternallyTypeSupported <XtrnlyTpSpprtd>

Presence: [0..*]

Definition: List of types that the receiver supports and that the sender could use as type of an ExternallyDefinedData message component.

Datatype: "Max1025Text" on page 521

10.1.5.6.6 NonFinancialActionSupported <NonFinActnSpprtd>

Presence: [0..*]

Definition: Identification of non financial action supported by the Service Provider.

Datatype: "NonFinancialRequestType1Code" on page 497

CodeName	Name	Definition
ACQR	AcquirerSelection	According to several parameters of a transaction, an Intermediary Agent helps an Acceptor to identify the more relevant Acquirer to process the transaction.
PARQ	ParRequest	The Intermediary Agent or Acquirer provides the PaymentAccountReference to use to process the transaction.
RISK	RiskManagement	The Intermediary Agent or Acquirer helps the Acceptor to assess the risk management of the transaction.
TOKN	TokenRequest	The Intermediary Agent or Acquirer provides the token to use to process the transaction.

10.1.5.7 AcquirerProtocolParameters15

Definition: Acceptor parameters dedicated to the acquirer protocol.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		223
	AcquirerIdentification < Acqrrld>	[1*]	±		223
	Version < Vrsn>	[11]	Text		223
	ApplicationIdentification < ApplId>	[0*]	Text		223
	Host <hst></hst>	[0*]			224
	HostIdentification < HstId>	[11]	Text		224
	MessageToSend < MsgToSnd>	[0*]	CodeSet		224
	ProtocolVersion < PrtcolVrsn>	[01]	Text		225
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		225
	OnLineTransaction < OnLineTx>	[01]			225
	FinancialCapture < FinCaptr>	[11]	CodeSet		226
	BatchTransfer < BtchTrf>	[01]			226
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		227
	MaximumNumber < MaxNb>	[01]	Quantity		227
	MaximumAmount < MaxAmt>	[01]	Amount		228
	ReTry < <i>ReTry</i> >	[01]	±		228
	TimeCondition < TmCond>	[01]	±		228
	CompletionExchange < CmpltnXchg>	[01]			228
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		229
	MaximumNumber < MaxNb>	[01]	Quantity		229
	MaximumAmount < MaxAmt>	[01]	Amount		230
	ReTry < <i>ReTry</i> >	[01]	±		230
	TimeCondition < TmCond>	[01]	±		230
	ExchangeFailed < <i>XchgFaild></i>	[01]	Indicator		230
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		230
	CancellationExchange < CxlXchg>	[01]	CodeSet		231
	OffLineTransaction < OffLineTx>	[01]			231
	FinancialCapture < FinCaptr>	[11]	CodeSet		232
	BatchTransfer < BtchTrf>	[01]			232
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		233
	MaximumNumber < MaxNb>	[01]	Quantity		233

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MaximumAmount < MaxAmt>	[01]	Amount		234
	ReTry < <i>ReTry</i> >	[01]	±		234
	TimeCondition < TmCond>	[01]	±		234
	CompletionExchange < CmpltnXchg>	[01]			234
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		235
	MaximumNumber < MaxNb>	[01]	Quantity		235
	MaximumAmount < MaxAmt>	[01]	Amount		236
	ReTry < <i>ReTry</i> >	[01]	±		236
	TimeCondition < TmCond>	[01]	±		236
	ExchangeFailed < <i>XchgFaild</i> >	[01]	Indicator		236
	ExchangeDeclined < XchgDcInd>	[01]	Indicator		236
	CancellationExchange < CxlXchg>	[01]	CodeSet		237
	ReconciliationExchange < RcncltnXchg>	[01]			237
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		237
	MaximumNumber < MaxNb>	[01]	Quantity		238
	MaximumAmount < MaxAmt>	[01]	Amount		238
	ReTry < <i>ReTry</i> >	[01]	±		238
	TimeCondition < TmCond>	[01]	±		238
	ReconciliationByAcquirer < RcncltnByAcqrr>	[01]	Indicator		239
	TotalsPerCurrency < TtlsPerCcy>	[01]	Indicator		239
	SplitTotals < <i>SpltTtls</i> >	[01]	Indicator		239
	SplitTotalCriteria < SpltTtlCrit>	[0*]	CodeSet		239
	CompletionAdviceMandated < CmpltnAdvcMndtd>	[01]	Indicator		240
	AmountQualifierForReservation < AmtQlfrForRsvatn>	[0*]	CodeSet		240
	ReconciliationError < RcncltnErr>	[01]	Indicator		240
	CardDataVerification < CardDataVrfctn>	[01]	Indicator		241
	NotifyOffLineCancellation < NtfyOffLineCxl>	[01]	Indicator		241
	BatchTransferContent < BtchTrfCntt>	[0*]	CodeSet		241
	FileTransferBatch < FileTrfBtch>	[01]	Indicator		241
	BatchDigitalSignature < BtchDgtlSgntr>	[01]	Indicator		241
	MessageItem < MsgItm>	[0*]	±		242

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ProtectCardData < PrtctCardData>	[11]	Indicator		242
	PrivateCardData < PrvtCardData>	[01]	Indicator		242
	MandatorySecurityTrailer < MndtrySctyTrlr>	[01]	Indicator		242

10.1.5.7.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.7.2 AcquirerIdentification <Acqrrld>

Presence: [1..*]

Definition: Identification of the acquirer using this protocol.

AcquirerIdentification <AcqrrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.5.7.3 Version < Vrsn>

Presence: [1..1]

Definition: Version of the acquirer protocol parameters.

Datatype: "Max256Text" on page 522

10.1.5.7.4 ApplicationIdentification < ApplId>

Presence: [0..*]

Definition: Identification of the payment application, user of the acquirer protocol.

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Datatype: "Max35Text" on page 523

10.1.5.7.5 Host <Hst>

Presence: [0..*]

Definition: Acquirer host configuration.

Host <Hst> contains the following AcquirerHostConfiguration9 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	HostIdentification < HstId>	[11]	Text		224
	MessageToSend < MsgToSnd>	[0*]	CodeSet		224
	ProtocolVersion < PrtcolVrsn>	[01]	Text		225
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		225

10.1.5.7.5.1 HostIdentification <HstId>

Presence: [1..1]

Definition: Identification of a host.

Datatype: "Max35Text" on page 523

10.1.5.7.5.2 MessageToSend <MsgToSnd>

Presence: [0..*]

Definition: Types of message to sent to this host.

Datatype: "MessageFunction43Code" on page 495

CodeName	Name	Definition
FAUQ	FinancialAuthorisationRequest	Request for authorisation with financial capture.
CCAQ	CancellationRequest	Request for cancellation.
CMPV	CompletionAdvice	Advice for completion without financial capture.
DGNP	DiagnosticRequest	Request for diagnostic.
RCLQ	ReconciliationRequest	Request for reconciliation.
CCAV	CancellationAdvice	Advice for cancellation.
втсн	BatchTransfer	Transfer the financial data as a collection of transction.
FRVA	FinancialReversalAdvice	Advice for reversal with financial capture.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
FCMV	FinancialCompletionAdvice	Advice for completion with financial capture.
DCCQ	CurrencyConversionRequest	Request for dynamic currency conversion.
RVRA	ReversalAdvice	Advice for reversal without financial capture.

CodeName	Name	Definition
DCAV	CurrencyConversionAdvice	Advice for dynamic currency conversion.
TRNA	TransactionAdvice	Advise of the transaction's processing.
NFRQ	NonFinancialRequest	Initiator of the message requests additional information to the receiver.
TRPQ	TransactionReportRequest	Request to receive of a report of transaction from the issuer to the receiver.

10.1.5.7.5.3 ProtocolVersion < PrtcolVrsn>

Presence: [0..1]

Definition: Protocol version to use when using these parameters.

Datatype: "Max8Text" on page 525

10.1.5.7.5.4 ExternallyTypeSupported <XtrnlyTpSpprtd>

Presence: [0..*]

Definition: List of types that the receiver supports and that the sender could use as type of an

ExternallyDefinedData message component.

Datatype: "Max1025Text" on page 521

10.1.5.7.6 OnLineTransaction <OnLineTx>

Presence: [0..1]

Definition: Acquirer protocol parameters of transactions performing an online authorisation.

OnLineTransaction <OnLineTx> contains the following AcquirerProtocolExchangeBehavior2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	FinancialCapture < FinCaptr>	[11]	CodeSet		226
	BatchTransfer < BtchTrf>	[01]			226
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		227
	MaximumNumber < MaxNb>	[01]	Quantity		227
	MaximumAmount < MaxAmt>	[01]	Amount		228
	ReTry < <i>ReTry</i> >	[01]	±		228
	TimeCondition < TmCond>	[01]	±		228
	CompletionExchange < CmpltnXchg>	[01]			228
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		229
	MaximumNumber < MaxNb>	[01]	Quantity		229
	MaximumAmount < MaxAmt>	[01]	Amount		230
	ReTry < <i>ReTry</i> >	[01]	±		230
	TimeCondition < TmCond>	[01]	±		230
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		230
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		230
	CancellationExchange < CxlXchg>	[01]	CodeSet		231

10.1.5.7.6.1 FinancialCapture <FinCaptr>

Presence: [1..1]

Definition: Mode for the financial capture of the transaction by the acquirer.

Datatype: "FinancialCapture1Code" on page 491

CodeName	Name	Definition
AUTH	Authorisation	Financial capture of the transaction is performed by the acquirer during the authorisation exchange.
COMP	Completion	Financial capture of the transaction is performed by the acquirer during the completion exchange.
втсн	Batch	Financial capture of the transaction is performed by the acquirer at the reception of a batch transfer.

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10.1.5.7.6.2 BatchTransfer <BtchTrf>

Presence: [0..1]

Definition: Configuration of the batch transfers.

BatchTransfer <BtchTrf> contains the following ExchangeConfiguration9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		227
	MaximumNumber < MaxNb>	[01]	Quantity		227
	MaximumAmount < MaxAmt>	[01]	Amount		228
	ReTry < <i>ReTry</i> >	[01]	±		228
	TimeCondition < TmCond>	[01]	±		228

10.1.5.7.6.2.1 ExchangePolicy <XchgPlcy>

Presence: [1..*]

Definition: Exchange policy between parties.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

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10.1.5.7.6.2.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of transactions without exchange.

Datatype: "Number" on page 519

10.1.5.7.6.2.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum cumulative amount of the transactions without exchange.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.5.7.6.2.4 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of an action fails.

ReTry <ReTry> contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.5.7.6.2.5 TimeCondition <TmCond>

Presence: [0..1]

Definition: Timing condition for periodic exchanges.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming6" on page 460</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	StartTime < <i>StartTm</i> >	[01]	DateTime		460
	EndTime < <i>EndTm</i> >	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

10.1.5.7.6.3 CompletionExchange < CmpltnXchg>

Presence: [0..1]

Definition: Configuration parameters of completion exchanges.

CompletionExchange < CompletionExchange < Completion Exchange Configuration 10 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		229
	MaximumNumber < MaxNb>	[01]	Quantity		229
	MaximumAmount < MaxAmt>	[01]	Amount		230
	ReTry <retry></retry>	[01]	±		230
	TimeCondition < TmCond>	[01]	±		230
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		230
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		230

10.1.5.7.6.3.1 ExchangePolicy <XchgPlcy>

Presence: [1..*]

Definition: Exchange policy between parties.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

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10.1.5.7.6.3.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of transactions without exchange.

Datatype: "Number" on page 519

10.1.5.7.6.3.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum cumulative amount of the transactions without exchange.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.5.7.6.3.4 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of an action fails.

ReTry < ReTry > contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay < Dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.5.7.6.3.5 TimeCondition <TmCond>

Presence: [0..1]

Definition: Timing condition for periodic exchanges.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming6" on page 460</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StartTime <starttm></starttm>	[01]	DateTime		460
	EndTime < <i>EndTm</i> >	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

10.1.5.7.6.3.6 ExchangeFailed <XchgFaild>

Presence: [0..1]

Definition: Failed transaction must be exchanged.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.6.3.7 ExchangeDeclined <XchgDcInd>

Presence: [0..1]

Definition: Indicates that declined transaction must be exchanged.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.6.4 CancellationExchange <CxIXchg>

Presence: [0..1]

Definition: Configuration of the cancellation exchanges.

Datatype: "CancellationProcess2Code" on page 481

CodeName	Name	Definition
ADVC	Advice	Card payment transaction may be cancelled by an advice only before closure of the reconciliation period or before the capture by batch.
NALW	NotAllowed	Card payment transaction cannot be cancelled by the acquirer.
REQU	Request	Card payment transaction may also be cancelled after the closure of the reconciliation period or after the capture by batch. In this case a cancellation request exchange is required.
APPL	ApplicationLevel	Cancellation of the Card payment transaction is defined by the payment application.

10.1.5.7.7 OffLineTransaction <OffLineTx>

Presence: [0..1]

Definition: Acquirer protocol parameters of transactions performing an offline authorisation.

OffLineTransaction <OffLineTx> contains the following AcquirerProtocolExchangeBehavior2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	FinancialCapture < FinCaptr>	[11]	CodeSet		232
	BatchTransfer < BtchTrf>	[01]			232
	ExchangePolicy <xchgplcy></xchgplcy>	[1*]	CodeSet		233
	MaximumNumber < MaxNb>	[01]	Quantity		233
	MaximumAmount < MaxAmt>	[01]	Amount		234
	ReTry < <i>ReTry</i> >	[01]	±		234
	TimeCondition < TmCond>	[01]	±		234
	CompletionExchange < CmpltnXchg>	[01]			234
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		235
	MaximumNumber < MaxNb>	[01]	Quantity		235
	MaximumAmount < MaxAmt>	[01]	Amount		236
	ReTry < <i>ReTry</i> >	[01]	±		236
	TimeCondition < TmCond>	[01]	±		236
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		236
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		236
	CancellationExchange < CxlXchg>	[01]	CodeSet		237

10.1.5.7.7.1 FinancialCapture <FinCaptr>

Presence: [1..1]

Definition: Mode for the financial capture of the transaction by the acquirer.

Datatype: "FinancialCapture1Code" on page 491

CodeName	Name	Definition
AUTH	Authorisation	Financial capture of the transaction is performed by the acquirer during the authorisation exchange.
COMP	Completion	Financial capture of the transaction is performed by the acquirer during the completion exchange.
втсн	Batch	Financial capture of the transaction is performed by the acquirer at the reception of a batch transfer.

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10.1.5.7.7.2 BatchTransfer <BtchTrf>

Presence: [0..1]

Definition: Configuration of the batch transfers.

BatchTransfer <BtchTrf> contains the following ExchangeConfiguration9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		233
	MaximumNumber < MaxNb>	[01]	Quantity		233
	MaximumAmount < MaxAmt>	[01]	Amount		234
	ReTry < <i>ReTry</i> >	[01]	±		234
	TimeCondition < TmCond>	[01]	±		234

10.1.5.7.7.2.1 ExchangePolicy <XchgPlcy>

Presence: [1..*]

Definition: Exchange policy between parties.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

10.1.5.7.7.2.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of transactions without exchange.

Datatype: "Number" on page 519

10.1.5.7.7.2.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum cumulative amount of the transactions without exchange.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.5.7.7.2.4 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of an action fails.

ReTry <ReTry> contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.5.7.7.2.5 TimeCondition <TmCond>

Presence: [0..1]

Definition: Timing condition for periodic exchanges.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming6" on page 460</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	StartTime <starttm></starttm>	[01]	DateTime		460
	EndTime < EndTm>	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

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10.1.5.7.7.3 CompletionExchange < CmpltnXchg>

Presence: [0..1]

Definition: Configuration parameters of completion exchanges.

CompletionExchange < CompletionExchange < Completion Exchange Configuration 10 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		235
	MaximumNumber < MaxNb>	[01]	Quantity		235
	MaximumAmount < MaxAmt>	[01]	Amount		236
	ReTry < <i>ReTry</i> >	[01]	±		236
	TimeCondition < TmCond>	[01]	±		236
	ExchangeFailed <xchgfaild></xchgfaild>	[01]	Indicator		236
	ExchangeDeclined <xchgdcind></xchgdcind>	[01]	Indicator		236

10.1.5.7.7.3.1 ExchangePolicy <XchgPlcy>

Presence: [1..*]

Definition: Exchange policy between parties.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

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10.1.5.7.7.3.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of transactions without exchange.

Datatype: "Number" on page 519

10.1.5.7.7.3.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum cumulative amount of the transactions without exchange.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.5.7.7.3.4 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of an action fails.

ReTry < ReTry > contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.5.7.7.3.5 TimeCondition <TmCond>

Presence: [0..1]

Definition: Timing condition for periodic exchanges.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming6" on page 460</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	StartTime <starttm></starttm>	[01]	DateTime		460
	EndTime < EndTm>	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

10.1.5.7.7.3.6 ExchangeFailed <XchgFaild>

Presence: [0..1]

Definition: Failed transaction must be exchanged.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.7.3.7 ExchangeDeclined <XchgDcInd>

Presence: [0..1]

Definition: Indicates that declined transaction must be exchanged.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.7.4 CancellationExchange <CxIXchg>

Presence: [0..1]

Definition: Configuration of the cancellation exchanges.

Datatype: "CancellationProcess2Code" on page 481

CodeName	Name	Definition
ADVC	Advice	Card payment transaction may be cancelled by an advice only before closure of the reconciliation period or before the capture by batch.
NALW	NotAllowed	Card payment transaction cannot be cancelled by the acquirer.
REQU	Request	Card payment transaction may also be cancelled after the closure of the reconciliation period or after the capture by batch. In this case a cancellation request exchange is required.
APPL	ApplicationLevel	Cancellation of the Card payment transaction is defined by the payment application.

10.1.5.7.8 ReconciliationExchange <RcncltnXchg>

Presence: [0..1]

Definition: Configuration parameters of reconciliation exchanges.

ReconciliationExchange < RcncltnXchg > contains the following ExchangeConfiguration9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ExchangePolicy < XchgPlcy>	[1*]	CodeSet		237
	MaximumNumber < MaxNb>	[01]	Quantity		238
	MaximumAmount < MaxAmt>	[01]	Amount		238
	ReTry <retry></retry>	[01]	±		238
	TimeCondition < TmCond>	[01]	±		238

10.1.5.7.8.1 ExchangePolicy <XchgPlcy>

Presence: [1..*]

Definition: Exchange policy between parties.

Datatype: "ExchangePolicy2Code" on page 489

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.

CodeName	Name	Definition
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

10.1.5.7.8.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of transactions without exchange.

Datatype: "Number" on page 519

10.1.5.7.8.3 MaximumAmount <MaxAmt>

Presence: [0..1]

Definition: Maximum cumulative amount of the transactions without exchange.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.5.7.8.4 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of an action fails.

ReTry < ReTry > contains the following elements (see "ProcessRetry3" on page 459 for details)

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Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.5.7.8.5 TimeCondition <TmCond>

Presence: [0..1]

Definition: Timing condition for periodic exchanges.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming6" on page 460</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StartTime <starttm></starttm>	[01]	DateTime		460
	EndTime < <i>EndTm</i> >	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

10.1.5.7.9 ReconciliationByAcquirer <RcncltnByAcqrr>

Presence: [0..1]

Definition: Indicates the reconciliation period is assigned by the acquirer instead of the acceptor.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.10 TotalsPerCurrency <TtlsPerCcy>

Presence: [0..1]

Definition: Indicates the reconciliation total amounts are computed per currency.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.11 SplitTotals <SpltTtls>

Presence: [0..1]

Definition: Indicates that totals in reconciliation or batch must be split.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

10.1.5.7.12 SplitTotalCriteria <SpltTtlCrit>

Presence: [0..*]

Definition: List of criterion to use when totals in reconciliation or batch must be split.

Datatype: "ReconciliationCriteria1Code" on page 505

CodeName	Name	Definition
BRND	CardBrand	The set is defined by transactions made with cards belonging to the same brand.

CodeName	Name	Definition
PROF	CardProductProfile	The set is defined by transactions made with cards sharing the same CardProductProfile.
GRUP	PoiGroup	The set is defined by transactions processed by POIs identified with the same POIGroup.

10.1.5.7.13 CompletionAdviceMandated < CmpltnAdvcMndtd>

Presence: [0..1]

Definition: To notify that the acquirer expect to receive a completion advice after each update of reservation.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.14 AmountQualifierForReservation < AmtQlfrForRsvatn>

Presence: [0..*]

Definition: Identification of available amount qualifier for a reservation.

Datatype: "TypeOfAmount8Code" on page 516

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.
RESD	Reserved	Reserved or updated reserved amount for reservation.

10.1.5.7.15 ReconciliationError <RcncltnErr>

Presence: [0..1]

Definition: After an error in a totals of the Reconciliation, the POI sends transactions in error in the BatchTransfer messages.

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Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.16 CardDataVerification < CardDataVrfctn>

Presence: [0..1]

Definition: Indicates whether the POI must send card data (protected or plain card data) in the AcceptorCompletionAdvice message following an authorisation exchange.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

Meaning When False: False

10.1.5.7.17 NotifyOffLineCancellation < NtfyOffLineCxl>

Presence: [0..1]

Definition: Send a cancellation advice for offline transactions not yet captured.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

Meaning When False: False

10.1.5.7.18 BatchTransferContent <BtchTrfCntt>

Presence: [0..*]

Definition: Types of transaction to include in the batch. Datatype: "BatchTransactionType1Code" on page 480

CodeName	Name	Definition
DTCT	DebitCredit	Debit and credit transactions.
CNCL	Cancellation	Cancellation of a previous transaction.
FAIL	Failed	Failed transactions.
DCLN	Declined	Declined transactions.

10.1.5.7.19 FileTransferBatch <FileTrfBtch>

Presence: [0..1]

Definition: BatchTransfer are exchanged per file transfer protocol rather than per message.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.20 BatchDigitalSignature < BtchDgtlSgntr>

Presence: [0..1]

Definition: BatchTransfer are authenticated by digital signature rather than a MAC (Message Authentication Code).

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.21 MessageItem <MsgItm>

Presence: [0..*]

Definition: Configuration of a message item.

MessageItem <MsgItm> contains the following elements (see "MessageItemCondition1" on page 380

for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ItemIdentification < ItmId>	[11]	Text		381
	Condition < Cond>	[11]	CodeSet		381
	Value < Val>	[0*]	Text		381

10.1.5.7.22 ProtectCardData < PrtctCardData >

Presence: [1..1]

Definition: Indicator to require protection of sensitive card data in messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

10.1.5.7.23 PrivateCardData < PrvtCardData >

Presence: [0..1]

Definition: Indicator to require a private protection of sensitive card data in messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.5.7.24 MandatorySecurityTrailer <MndtrySctyTrlr>

Presence: [0..1]

Definition: A security trailer is mandatory in the messages.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

• Meaning When False: False

10.1.5.8 TMSProtocolParameters6

Definition: Configuration parameters of the TMS protocol between a POI and a terminal manager.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		243
	TerminalManagerIdentification < TermnIMgrId>	[11]	±		243
	ProtocolVersion < PrtcolVrsn>	[01]	Text		244
	MaintenanceService < MntncSvc>	[1*]	CodeSet		244
	Version < Vrsn>	[11]	Text		245
	ApplicationIdentification < ApplId>	[0*]	Text		245
	HostIdentification < HstId>	[11]	Text		245
	POlldentification < POlld>	[01]	Text		245
	InitiatingPartyIdentification < InitgPtyId>	[01]	Text		245
	RecipientPartyIdentification < RcptPtyId>	[01]	Text		245
	FileTransfer < FileTrf>	[01]	Indicator		245
	MessageItem < MsgItm>	[0*]	±		245
	ExternallyTypeSupported <xtrnlytpspprtd></xtrnlytpspprtd>	[0*]	Text		246

10.1.5.8.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.8.2 TerminalManagerIdentification <TermnIMgrId>

Presence: [1..1]

Definition: Identification of the master terminal manager or the terminal manager.

TerminalManagerIdentification < TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.5.8.3 ProtocolVersion < PrtcolVrsn>

Presence: [0..1]

Definition: Protocol version to use when using these parameters.

Datatype: "Max8Text" on page 525

10.1.5.8.4 MaintenanceService < MntncSvc>

Presence: [1..*]

Definition: Maintenance services provided by the terminal manager.

Datatype: "DataSetCategory10Code" on page 486

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.
MTMG	MasterTerminalManager	The terminal manager is the master.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
MTOR	Monitoring	Monitoring of the terminal estate.
SCPR	SecurityParameters	Point of interaction parameters related to the security of software application and application protocol.
SWPK	SoftwareModule	Software module.
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.

10.1.5.8.5 Version < Vrsn>

Presence: [1..1]

Definition: Version of the TMS protocol parameters.

Datatype: "Max256Text" on page 522

10.1.5.8.6 ApplicationIdentification < ApplId>

Presence: [0..*]

Definition: Identification of applications which may be managed by the TM, partially or globally.

Datatype: "Max35Text" on page 523

10.1.5.8.7 HostIdentification <HstId>

Presence: [1..1]

Definition: Identification of the terminal manager host.

Datatype: "Max35Text" on page 523

10.1.5.8.8 POlldentification < POlld>

Presence: [0..1]

Definition: New identification of the POI for the terminal manager.

Datatype: "Max35Text" on page 523

10.1.5.8.9 InitiatingPartyIdentification <InitgPtyId>

Presence: [0..1]

Definition: New identification of the initiating party to set in TMS messages with this terminal manager.

Datatype: "Max35Text" on page 523

10.1.5.8.10 RecipientPartyIdentification <RcptPtyId>

Presence: [0..1]

Definition: New identification of the recipient party to set in TMS messages with this terminal manager.

Datatype: "Max35Text" on page 523

10.1.5.8.11 FileTransfer <FileTrf>

Presence: [0..1]

Definition: Configuration parameters are exchanged per file transfer protocol rather than per message.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

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· Meaning When True: True

• Meaning When False: False

10.1.5.8.12 MessageItem < MsgItm>

Presence: [0..*]

Definition: Configuration of a message item.

MessageItem <MsgItm> contains the following elements (see "MessageItemCondition1" on page 380 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ItemIdentification < ItmId>	[11]	Text		381
	Condition < Cond>	[11]	CodeSet		381
	Value < Val>	[0*]	Text		381

10.1.5.8.13 ExternallyTypeSupported <XtrnlyTpSpprtd>

Presence: [0..*]

Definition: List of types that the receiver supports and that the sender could use as type of an

ExternallyDefinedData message component.

Datatype: "Max1025Text" on page 521

10.1.5.9 PaymentTerminalParameters8

Definition: Manufacturer configuration parameters of the point of interaction (POI).

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		247
	VendorIdentification < VndrId>	[01]	Text		247
	Version < Vrsn>	[01]	Text		247
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		247
	ClockSynchronisation < ClckSynctn>	[01]			247
	POITimeZone < POITmZone >	[11]	Text		247
	SynchronisationServer < SynctnSvr>	[0*]	±		248
	Delay < <i>Dely</i> >	[01]	Time		248
	TimeZoneLine < TmZoneLine>	[0*]	Text		248
	LocalDateTime <lcidttm></lcidttm>	[0*]			248
	FromDateTime < FrDtTm>	[01]	DateTime		249
	ToDateTime <todttm></todttm>	[01]	DateTime		249
	UTCOffset <utcoffset></utcoffset>	[11]	Quantity		249
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		249
	OffsetStart < OffsetStart>	[01]	Quantity		249
	OffsetEnd < OffsetEnd>	[01]	Quantity		249
	OtherParameters < OthrParams>	[01]	Binary		249

10.1.5.9.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.9.2 Vendorldentification < Vndrld>

Presence: [0..1]

Definition: Identification of the vendor for the MTM, if the POI manages various subsets of terminal

parameters.

Datatype: "Max35Text" on page 523

10.1.5.9.3 Version < Vrsn>

Presence: [0..1]

Definition: Version of the terminal parameters.

Datatype: "Max256Text" on page 522

10.1.5.9.4 ParameterFormatIdentifier < ParamFrmtIdr>

Presence: [0..1]

Definition: Version of the parameters' format.

Datatype: "Max8Text" on page 525

10.1.5.9.5 ClockSynchronisation <ClckSynctn>

Presence: [0..1]

Definition: Parameters to synchronise the real time clock of the POI (Point Of Interaction).

ClockSynchronisation < ClckSynctn> contains the following ClockSynchronisation3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	POITimeZone < POITmZone >	[11]	Text		247
	SynchronisationServer < SynctnSvr>	[0*]	±		248
	Delay < Dely>	[01]	Time		248

10.1.5.9.5.1 POITimeZone < POITmZone>

Presence: [1..1]

Definition: Name of the time zone where is located the POI (Point Of Interaction), as definined by the IANA (Internet Assigned Number Authority) time zone data base.

Datatype: "Max70Text" on page 525

10.1.5.9.5.2 SynchronisationServer <SynctnSvr>

Presence: [0..*]

Definition: Parameters to contact a time server.

SynchronisationServer <SynctnSvr> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr>	[1*]			400
	NetworkType <i><ntwktp></ntwktp></i>	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.5.9.5.3 Delay <Dely>

Presence: [0..1]

Definition: Delay between two contacts of the server.

Datatype: "ISOTime" on page 527

10.1.5.9.6 TimeZoneLine <TmZoneLine>

Presence: [0..*]

Definition: Time zone line to update in the time zone data base subset stored in the POI (Point Of Interaction). The format of the line is conform to the IANA (Internet Assigned Number Authority) time zone data base.

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Datatype: "Max70Text" on page 525

10.1.5.9.7 LocalDateTime <LcIDtTm>

Presence: [0..*]

Definition: Local time offset to UTC (Coordinated Universal Time).

LocalDateTime <LcIDtTm> contains the following LocalDateTime1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	FromDateTime < FrDtTm>	[01]	DateTime		249
	ToDateTime < ToDtTm>	[01]	DateTime		249
	UTCOffset <utcoffset></utcoffset>	[11]	Quantity		249

10.1.5.9.7.1 FromDateTime <FrDtTm>

Presence: [0..1]

Definition: Date time of the beginning of the period (inclusive).

Datatype: "ISODateTime" on page 517

10.1.5.9.7.2 ToDateTime <ToDtTm>

Presence: [0..1]

Definition: Date time of the end of the period (exclusive).

Datatype: "ISODateTime" on page 517

10.1.5.9.7.3 UTCOffset <UTCOffset>

Presence: [1..1]

Definition: UTC offset in minutes, of the local time during the period. For instance, 120 for Central

European Time, -720 for Central Standard Time (North America).

Datatype: "Number" on page 519

10.1.5.9.8 OtherParametersLength < OthrParamsLngth>

Presence: [0..1]

Definition: Full length of other parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.9.9 OffsetStart < OffsetStart>

Presence: [0..1]

Definition: Place of this Block, beginning with 0, in the full other parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.9.10 OffsetEnd <OffsetEnd>

Presence: [0..1]

Definition: Following place of this Block in the full other parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.9.11 OtherParameters < OthrParams>

Presence: [0..1]

Definition: Others manufacturer configuration parameters of the point of interaction.

Datatype: "Max10000Binary" on page 465

10.1.5.10 MerchantConfigurationParameters6

Definition: Acceptor parameters dedicated to the merchant.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType <actntp></actntp>	[11]	CodeSet		250
	MerchantIdentification < MrchntId>	[01]	Text		250
	Version < Vrsn>	[01]	Text		250
	ParameterFormatIdentifier < ParamFrmtIdr>	[01]	Text		251
	Proxy < <i>Prxy</i> >	[01]			251
	Type < <i>Tp</i> >	[11]	CodeSet		251
	Access <accs></accs>	[11]	±		251
	OtherParametersLength < OthrParamsLngth>	[01]	Quantity		252
	OffsetStart < OffsetStart>	[01]	Quantity		252
	OffsetEnd < OffsetEnd>	[01]	Quantity		252
	OtherParameters < OthrParams>	[01]	Binary		252

10.1.5.10.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Type of action for the configuration parameters.

Datatype: "TerminalManagementAction3Code" on page 512

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.1.5.10.2 MerchantIdentification < MrchntId>

Presence: [0..1]

Definition: Identification of the merchant for the MTM, if the POI manages several merchants.

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Datatype: "Max35Text" on page 523

10.1.5.10.3 Version < Vrsn>

Presence: [0..1]

Definition: Version of the merchant parameters.

Datatype: "Max256Text" on page 522

10.1.5.10.4 ParameterFormatIdentifier <ParamFrmtIdr>

Presence: [0..1]

Definition: Version of the parameters' format.

Datatype: "Max8Text" on page 525

10.1.5.10.5 Proxy < Prxy>

Presence: [0..1]

Definition: Local proxy configuration.

Proxy < Prxy> contains the following NetworkParameters8 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		251
	Access <accs></accs>	[11]	±		251

10.1.5.10.5.1 Type <Tp>

Presence: [1..1]

Definition: Type of proxy.

Datatype: "NetworkType2Code" on page 497

CodeName	Name	Definition
SCK5	Sock5	Sock5 proxy.
SCK4	Sock4	Sock4 proxy.
HTTP	HTTP	HTTP proxy.

10.1.5.10.5.2 Access <Accs>

Presence: [1..1]

Definition: Access information to the proxy.

Access <Accs> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr>	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier <svrcertidr></svrcertidr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.5.10.6 OtherParametersLength <OthrParamsLngth>

Presence: [0..1]

Definition: Full length of other parameters. Datatype: "PositiveNumber" on page 520

10.1.5.10.7 OffsetStart < OffsetStart>

Presence: [0..1]

Definition: Place of this Block, beginning with 0, in the full other parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.10.8 OffsetEnd < OffsetEnd>

Presence: [0..1]

Definition: Following place of this Block in the full other parameters.

Datatype: "PositiveNumber" on page 520

10.1.5.10.9 OtherParameters < OthrParams>

Presence: [0..1]

Definition: Other merchant parameters. Datatype: "Max10000Binary" on page 465

10.1.6 **Identification Information**

10.1.6.1 GenericIdentification32

Definition: Identification of an entity.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		252
	Type < <i>Tp</i> >	[01]	CodeSet		252
	Issuer	[01]	CodeSet		253
	ShortName <shrtnm></shrtnm>	[01]	Text		253

252

10.1.6.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity. Datatype: "Max35Text" on page 523

10.1.6.1.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType3Code" on page 499

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.

10.1.6.1.3 Issuer < lssr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType4Code" on page 499

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.

10.1.6.1.4 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 523

10.1.6.2 GenericIdentification177

Definition: Identification of an entity.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type < <i>Tp</i> >	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

10.1.6.2.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 523

10.1.6.2.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType33Code" on page 498

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.

10.1.6.2.3 Issuer < lssr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType33Code" on page 498

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.

10.1.6.2.4 Country < Ctry>

Presence: [0..1]

Definition: Country of the entity (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 526

10.1.6.2.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 523

10.1.6.2.6 RemoteAccess < RmotAccs>

Presence: [0..1]

Definition: Access information to reach the target host.

RemoteAccess <RmotAccs> contains the following elements (see "NetworkParameters7" on

page 400 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Address < Adr >	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate < CIntCert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.6.2.7 Geolocation <Glctn>

Presence: [0..1]

Definition: Location of the entity.

Geolocation <Glctn> contains the following Geolocation1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	GeographicCoordinates < GeogcCordints >	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <long></long>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZone</i> >	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < UTMNrthwrd>	[11]	Text		258

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10.1.6.2.7.1 GeographicCoordinates < GeogcCordints>

Presence: [0..1]

Definition: Geographic location specified by geographic coordinates.

GeographicCoordinates <GeogcCordints> contains the following **GeolocationGeographicCoordinates1** elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Latitude <lat></lat>	[11]	Text		257
	Longitude <long></long>	[11]	Text		257

10.1.6.2.7.1.1 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 523

10.1.6.2.7.1.2 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 523

10.1.6.2.7.2 UTMCoordinates <UTMCordints>

Presence: [0..1]

Definition: Geographic location specified by UTM coordinates.

UTMCoordinates <UTMCordints> contains the following GeolocationUTMCoordinates1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

10.1.6.2.7.2.1 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).

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3,

Datatype: "Max35Text" on page 523

10.1.6.2.7.2.2 UTMEastward <UTMEstwrd>

Presence: [1..1]

Definition: X-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 523

10.1.6.2.7.2.3 UTMNorthward <UTMNrthwrd>

Presence: [1..1]

Definition: Y-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 523

10.1.6.3 GenericIdentification176

Definition: Identification of an entity.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.6.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 523

10.1.6.3.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType33Code" on page 498

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.

10.1.6.3.3 Issuer < lssr>

Presence: [0..1]

Definition: Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).

Datatype: "PartyType33Code" on page 498

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.

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10.1.6.3.4 Country < Ctry>

Presence: [0..1]

Definition: Country of the entity (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 526

10.1.6.3.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 523

10.1.6.4 GenericIdentification36

Definition: Identification using a proprietary scheme.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		260
	Issuer	[11]	Text		260
	SchemeName <schmenm></schmenm>	[01]	Text		260

10.1.6.4.1 Identification <Id>

Presence: [1..1]

Definition: Proprietary information, often a code, issued by the data source scheme issuer.

Datatype: "Max35Text" on page 523

10.1.6.4.2 Issuer < lssr>

Presence: [1..1]

Definition: Entity that assigns the identification.

Datatype: "Max35Text" on page 523

10.1.6.4.3 SchemeName <SchmeNm>

Presence: [0..1]

Definition: Short textual description of the scheme.

Datatype: "Max35Text" on page 523

10.1.6.5 GenericIdentification4

Definition: Information related to an identification, eg, party identification or account identification.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		260
	IdentificationType <idtp></idtp>	[11]	Text		260

10.1.6.5.1 Identification <Id>

Presence: [1..1]

Definition: Identifier issued to a person for which no specific identifier has been defined.

Datatype: "Max35Text" on page 523

10.1.6.5.2 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 523

10.1.7 Miscellaneous

10.1.7.1 SupplementaryData1

Definition: Additional information that can not be captured in the structured fields and/or any other specific block.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PlaceAndName < PlcAndNm>	[01]	Text		261
	Envelope < Envlp>	[11]	(External Schema)		261

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.

10.1.7.1.1 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 523

10.1.7.1.2 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.

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10.1.7.2 MaintenanceDelegateAction7

Definition: Information for the MTM to build or include delegated actions in the management plan of the POI.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PeriodicAction < PrdcActn>	[01]	Indicator		263
	TMRemoteAccess < TMRmotAccs>	[01]	±		263
	TMSProtocol < TMSPrtcol>	[01]	Text		263
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		264
	DataSetIdentification < DataSetId>	[01]	±		264
	ReTry < <i>ReTry</i> >	[01]	±		264
	AdditionalInformation < AddtlInf>	[0*]	Binary		264
	Action < <i>Actn</i> >	[0*]			264
	Type < <i>Tp</i> >	[11]	CodeSet		265
	RemoteAccess < RmotAccs>	[01]	±		266
	Key < <i>Key</i> >	[0*]			267
	Keyldentification < Keyld>	[11]	Text		267
	KeyVersion < KeyVrsn>	[11]	Text		267
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		267
	DerivationIdentification < DerivtnId>	[01]	Binary		267
	Type < <i>Tp</i> >	[01]	CodeSet		267
	Function < Fctn>	[0*]	CodeSet		268
	TerminalManagerIdentification < TermnIMgrId>	[01]	±		269
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		269
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		269
	DataSetIdentification < DataSetId>	[01]	±		269
	ComponentType < CmpntTp>	[0*]	CodeSet		270
	DelegationScopeIdentification < DIgtnScpId>	[01]	Text		271
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		271
	DelegationProof < DlgtnProof>	[01]	Binary		271
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		271
	Trigger < Trggr>	[11]	CodeSet		272
	AdditionalProcess < AddtlPrc>	[0*]	CodeSet		272
	ReTry < <i>ReTry</i> >	[01]	±		272
	TimeCondition < TmCond>	[01]	±		273
	TMChallenge < TMChllng>	[01]	Binary		273

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		273
	ErrorAction < ErrActn>	[0*]	±		273
	AdditionalInformation < AddtlInf>	[0*]	Binary		274
	MessageItem < MsgItm>	[0*]	±		274
	DeviceRequest < DvcReq >	[01]	±		274

10.1.7.2.1 PeriodicAction < PrdcActn>

Presence: [0..1]

Definition: Flag to indicate that the delegated actions have to be included in a periodic sequence of actions.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.2.2 TMRemoteAccess <TMRmotAccs>

Presence: [0..1]

Definition: Network address and parameters of the terminal manager host which will performs the delegated actions.

TMRemoteAccess <TMRmotAccs> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr>	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate <cintcert></cintcert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

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10.1.7.2.3 TMSProtocol <TMSPrtcol>

Presence: [0..1]

Definition: TMS protocol to use to perform the maintenance action.

Datatype: "Max35Text" on page 523

10.1.7.2.4 TMSProtocolVersion <TMSPrtcolVrsn>

Presence: [0..1]

Definition: Version of the TMS protocol to use to perform the maintenance action.

Datatype: "Max35Text" on page 523

10.1.7.2.5 DataSetIdentification < DataSetId>

Presence: [0..1]

Definition: Data set on which the delegated action has to be performed.

DataSetIdentification <DataSetId> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

10.1.7.2.6 ReTry < ReTry>

Presence: [0..1]

Definition: Definition of retry process when activation of the action fails.

ReTry <ReTry> contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Delay <dely></dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.7.2.7 AdditionalInformation <AddtlInf>

Presence: [0..*]

Definition: Additional information to include in the maintenance action.

Datatype: "Max3000Binary" on page 466

10.1.7.2.8 Action <Actn>

Presence: [0..*]

Definition: Sequence of action to include in the next MTM management plan.

Action <Actn> contains the following TMSAction10 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		265
	RemoteAccess < RmotAccs>	[01]	±		266
	Key <key></key>	[0*]			267
	Keyldentification < Keyld>	[11]	Text		267
	KeyVersion <keyvrsn></keyvrsn>	[11]	Text		267
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		267
	DerivationIdentification < DerivtnId>	[01]	Binary		267
	Type <tp></tp>	[01]	CodeSet		267
	Function < Fctn>	[0*]	CodeSet		268
	TerminalManagerIdentification < TermnlMgrId>	[01]	±		269
	TMSProtocol <tmsprtcol></tmsprtcol>	[01]	Text		269
	TMSProtocolVersion < TMSPrtcolVrsn>	[01]	Text		269
	DataSetIdentification < DataSetId>	[01]	±		269
	ComponentType <cmpnttp></cmpnttp>	[0*]	CodeSet		270
	DelegationScopeIdentification < DlgtnScpId>	[01]	Text		271
	DelegationScopeDefinition < DlgtnScpDef>	[01]	Binary		271
	DelegationProof < DlgtnProof>	[01]	Binary		271
	ProtectedDelegationProof < PrtctdDlgtnProof>	[01]	±		271
	Trigger < Trggr>	[11]	CodeSet		272
	AdditionalProcess < AddtlPrc>	[0*]	CodeSet		272
	ReTry < <i>ReTry</i> >	[01]	±		272
	TimeCondition < TmCond>	[01]	±		273
	TMChallenge < TMChllng>	[01]	Binary		273
	KeyEnciphermentCertificate <keyncphrmntcert></keyncphrmntcert>	[0*]	Binary		273
	ErrorAction < ErrActn>	[0*]	±		273
	AdditionalInformation <addtlinf></addtlinf>	[0*]	Binary		274
	MessageItem < MsgItm>	[0*]	±		274
	DeviceRequest < DvcReq>	[01]	±		274

10.1.7.2.8.1 Type <Tp>

Presence: [1..1]

Definition: Types of action to be performed by a point of interaction (POI).

Datatype: "TerminalManagementAction5Code" on page 512

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.
DEVR	DeviceRequest	Request to execute a device request.

10.1.7.2.8.2 RemoteAccess < RmotAccs>

Presence: [0..1]

Definition: Host access information.

RemoteAccess <RmotAccs> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Address < Adr >	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate < CIntCert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.7.2.8.3 Key <Key>

Presence: [0..*]

Definition: Cryptographic key used to communicate with the host.

Key <Key> contains the following KEKIdentifier5 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		267
	KeyVersion < KeyVrsn>	[11]	Text		267
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		267
	DerivationIdentification < DerivtnId>	[01]	Binary		267
	Type < <i>Tp</i> >	[01]	CodeSet		267
	Function < Fctn>	[0*]	CodeSet		268

10.1.7.2.8.3.1 Keyldentification <Keyld>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.7.2.8.3.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 522

10.1.7.2.8.3.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 519

10.1.7.2.8.3.4 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 468

10.1.7.2.8.3.5 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 486

CodeName	Name	Definition
AES2		AES (Advanced Encryption Standard) 128 bits cryptographic key as defined by

CodeName	Name	Definition
		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).

10.1.7.2.8.3.6 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 493

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).

CodeName	Name	Definition
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.

10.1.7.2.8.4 TerminalManagerIdentification <TermnIMgrId>

Presence: [0..1]

Definition: Identification of the master terminal manager or the terminal manager with which the POI has to perform the action.

TerminalManagerIdentification < TermnIMgrId> contains the following elements (see "GenericIdentification176" on page 258 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.7.2.8.5 TMSProtocol <TMSPrtcol>

Presence: [0..1]

Definition: TMS protocol to use for performing the maintenance action.

Datatype: "Max35Text" on page 523

10.1.7.2.8.6 TMSProtocolVersion <TMSPrtcolVrsn>

Presence: [0..1]

Definition: Version of the TMS protocol to use to perform the maintenance action.

Datatype: "Max35Text" on page 523

10.1.7.2.8.7 DataSetIdentification < DataSetId>

Presence: [0..1]

Definition: Data set on which the action has to be performed.

DataSetIdentification <DataSetId> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

10.1.7.2.8.8 ComponentType <CmpntTp>

Presence: [0..*]

Definition: Type of POI components to send in a status report.

Datatype: "DataSetCategory17Code" on page 488

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).

CodeName	Name	Definition
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.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

10.1.7.2.8.9 DelegationScopeldentification < DIgtnScpld>

Presence: [0..1]

Definition: Identification of the delegation scope assigned by the MTM.

Datatype: "Max35Text" on page 523

10.1.7.2.8.10 DelegationScopeDefinition <DlgtnScpDef>

Presence: [0..1]

Definition: This element contains all information relevant to the DelegationScopeIdentification. The

format of this element is out of scope of this definition.

Datatype: "Max3000Binary" on page 466

10.1.7.2.8.11 DelegationProof < DIgtnProof>

Presence: [0..1]

Definition: This element contains the necessary information to secure the management of the

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Delegation. The format of this element is out of scope of this definition.

Datatype: "Max5000Binary" on page 467

10.1.7.2.8.12 ProtectedDelegationProof < PrtctdDlgtnProof>

Presence: [0..1]

Definition: Protected proof of delegation.

ProtectedDelegationProof <PrtctdDlgtnProof> contains the following elements (see "ContentInformationType30" on page 430 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData >	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData >	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

10.1.7.2.8.13 Trigger <Trggr>

Presence: [1..1]

Definition: Event on which the action has to be activated by the point of interaction (POI).

Datatype: "TerminalManagementActionTrigger1Code" on page 514

CodeName	Name	Definition
DATE	DateTime	Date and time trigger the terminal management action.
HOST	HostEvent	Acquirer triggers the terminal management action.
MANU	Manual	Acceptor triggers the terminal management action.
SALE	SaleEvent	Sale system triggers the terminal management action.

10.1.7.2.8.14 AdditionalProcess <AddtlPrc>

Presence: [0..*]

Definition: Additional process to perform before starting or after completing the action by the point of interaction (POI).

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Datatype: "TerminalManagementAdditionalProcess1Code" on page 514

CodeName	Name	Definition
MANC	ManualConfirmation	Manual confirmation of the merchant before the terminal management action.
RCNC	Reconciliation	Acquirer reconciliation to be performed before the terminal management action.
RSRT	RestartSystem	Restart the system after performing the terminal management action.

10.1.7.2.8.15 ReTry <ReTry>

Presence: [0..1]

Definition: Definition of retry process if activation of the action fails.

ReTry < ReTry> contains the following elements (see "ProcessRetry3" on page 459 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay < Dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.7.2.8.16 TimeCondition <TmCond>

Presence: [0..1]

Definition: Date and time the action has to be performed.

TimeCondition <TmCond> contains the following elements (see <u>"ProcessTiming5" on page 461</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	WaitingTime < <i>WtgTm</i> >	[01]	Text		461
	StartTime < <i>StartTm</i> >	[01]	DateTime		461
	EndTime < <i>EndTm</i> >	[01]	DateTime		461
	Period < <i>Prd</i> >	[01]	Text		461
	MaximumNumber < MaxNb>	[01]	Quantity		461
	UnitOfTime < UnitOfTm>	[01]	CodeSet		461

10.1.7.2.8.17 TMChallenge <TMChling>

Presence: [0..1]

Definition: Terminal manager challenge for cryptographic key injection.

Datatype: "Max140Binary" on page 466

10.1.7.2.8.18 KeyEnciphermentCertificate <KeyNcphrmntCert>

Presence: [0..*]

Definition: Certificate chain for the encryption of temporary transport key of the key to inject.

Datatype: "Max10KBinary" on page 466

10.1.7.2.8.19 ErrorAction < ErrActn>

Presence: [0..*]

Definition: Action to perform in case of error on the related action in progress.

ErrorAction < ErrActn > contains the following elements (see "ErrorAction5" on page 398 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionResult <actnrslt></actnrslt>	[1*]	CodeSet		398
	ActionToProcess < ActnToPrc>	[11]	CodeSet		399

10.1.7.2.8.20 AdditionalInformation <AddtlInf>

Presence: [0..*]

Definition: Additional information about the maintenance action.

Datatype: "Max3000Binary" on page 466

10.1.7.2.8.21 MessageItem < MsgItm>

Presence: [0..*]

Definition: Configuration of a message item.

MessageItem <MsgItm> contains the following elements (see "MessageItemCondition1" on page 380

for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ItemIdentification < ItmId>	[11]	Text		381
	Condition < Cond>	[11]	CodeSet		381
	Value < Val>	[0*]	Text		381

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10.1.7.2.8.22 DeviceRequest < DvcReq>

Presence: [0..1]

Definition: Information related to a device request of the POI.

DeviceRequest <DvcReq> contains the following elements (see <u>"DeviceRequest5" on page 136</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Environment < Envt>	[01]	±		139
	Context < Cntxt>	[01]	±		145
	ServiceContent <svccntt></svccntt>	[11]	CodeSet		148
	DisplayRequest <i><dispreq></dispreq></i>	[01]			148
	DisplayOutput < DispOutpt>	[1*]	±		148
	InputRequest <inptreq></inptreq>	[01]			149
	DisplayOutput < DispOutpt>	[01]	±		150
	InputData	[11]			151
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		152
	InformationQualifier < InfQlfr>	[11]	CodeSet		152
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		153
	NotifyCardInputFlag <ntfycardinptflg></ntfycardinptflg>	[11]	Indicator		154
	MaximumInputTime < MaxInptTm>	[01]	Quantity		154
	InputText <inpttxt></inpttxt>	[01]	±		154
	ImmediateResponseFlag <imdtrspnflg></imdtrspnflg>	[01]	Indicator		155
	WaitUserValidationFlag < WaitUsrVldtnFlg>	[01]	Indicator		155
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		155
	GlobalCorrectionFlag < GblCrrctnFlg>	[01]	Indicator		156
	DisableCancelFlag < DsblCclFlg>	[01]	Indicator		156
	DisableCorrectFlag < DsblCrrctFlg>	[01]	Indicator		156
	DisableValidFlag <i><dsblvldflg></dsblvldflg></i>	[01]	Indicator		156
	MenuBackFlag <i><menubckflg></menubckflg></i>	[01]	Indicator		156
	PrintRequest < PrtReq>	[01]			157
	DocumentQualifier < DocQlfr>	[11]	CodeSet		157
	ResponseMode < RspnMd>	[11]	CodeSet		157
	IntegratedPrintFlag <intgrtdprtflg></intgrtdprtflg>	[01]	Indicator		158
	RequiredSignatureFlag < ReqrdSgntrFlg>	[01]	Indicator		158
	OutputContent < OutptCntt>	[11]	±		158
	PlayResourceRequest < PlayRsrcReq>	[01]			159
	ResponseMode < RspnMd>	[01]	CodeSet		160

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ResourceAction < RsrcActn>	[11]	CodeSet		160
	SoundVolume <soundvol></soundvol>	[01]	Rate		160
	DisplayResolution <i><disprsltn></disprsltn></i>	[01]	Text		160
	Resource <rsrc></rsrc>	[01]			160
	ResourceType <rsrctp></rsrctp>	[11]	CodeSet		161
	ResourceFormat < RsrcFrmt>	[01]	CodeSet		161
	Language <lang></lang>	[01]	CodeSet	C6	161
	ResourceReference < RsrcRef >	[01]	Text		161
	TimingSlot <tmgslot></tmgslot>	[01]	CodeSet		162
	SecureInputRequest <scrinptreq></scrinptreq>	[01]			162
	PINRequestType < <i>PINReqTp</i> >	[11]	CodeSet		162
	PINVerificationMethod < <i>PINVrfctnMtd</i> >	[01]	Text		163
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		163
	BeepKeyFlag <beepkeyflg></beepkeyflg>	[01]	Indicator		163
	CardholderPIN < CrdhldrPIN>	[01]			163
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		163
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		164
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		164
	InitialisationCardReaderRequest < InitIstnCardRdrReq>	[01]			164
	WarmResetFlag < WarmRstFlg>	[01]	Indicator		165
	ForceEntryMode < ForceNtryMd>	[0*]	CodeSet		165
	LeaveCardFlag < LeavCardFlg>	[01]	Indicator		166
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		166
	DisplayOutput < DispOutpt>	[01]	±		166
	CardReaderAPDURequest < CardRdrAPDUReq>	[01]			167
	Class <clss></clss>	[11]	Binary		167
	Instruction < Instr>	[11]	Binary		167
	Parameter1 < Param1>	[11]	Binary		167
	Parameter2 < Param2>	[11]	Binary		167
	Data < Data >	[01]	Binary		167
	ExpectedLength <xpctdlngth></xpctdlngth>	[01]	Binary		167

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PowerOffCardReaderRequest < PwrOffCardRdrReq>	[01]			168
	PowerOffMaximumWaitingTime < PwrOffMaxWtgTm>	[01]	Quantity		168
	DisplayOutput < DispOutpt>	[01]	±		168
	TransmissionRequest < TrnsmssnReq>	[01]			169
	DestinationAddress < DstnAdr>	[11]	±		169
	MaximumTransmissionTime < MaxTrnsmssnTm>	[11]	Quantity		170
	MaximumWaitingTime < MaxWtgTm>	[01]	Quantity		170
	MessageToSend < MsgToSnd>	[11]	Binary		170
	InputNotification < InptNtfctn>	[01]			170
	ExchangeIdentification <xchgid></xchgid>	[11]	Text		170
	OutputContent < OutptCntt>	[11]	±		171
	SupplementaryData <splmtrydata></splmtrydata>	[0*]	±	C5	171

10.1.7.3 LoyaltyAccount3

Definition: Loyalty Account description.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	LoyaltyIdentification <lltyid></lltyid>	[11]	Text		277
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		277
	IdentificationType	[01]	CodeSet		278
	Brand <brnd></brnd>	[01]	Text		279
	Provider < <i>Prvdr</i> >	[01]	Text		279
	OwnerName < OwnrNm>	[01]	Text		279
	Unit <unit></unit>	[01]	CodeSet		279
	Currency < Ccy>	[01]	CodeSet	C1	279
	Balance <bal></bal>	[01]	Amount		279

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10.1.7.3.1 Loyaltyldentification <Lltyld>

Presence: [1..1]

Definition: Identification of Loyalty Account.

Datatype: "Max35Text" on page 523

10.1.7.3.2 EntryMode <NtryMd>

Presence: [0..1]

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

Datatype: "CardDataReading8Code" on page 482

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.)

10.1.7.3.3 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Loyalty Account.

Datatype: "CardIdentificationType1Code" on page 484

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.

10.1.7.3.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 523

10.1.7.3.5 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the Loyalty Account.

Datatype: "Max35Text" on page 523

10.1.7.3.6 OwnerName < OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 524

10.1.7.3.7 Unit <Unit>

Presence: [0..1]

Definition: Unit of a Loyalty Account (Point or Currency).

Datatype: "AmountUnit1Code" on page 476

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

10.1.7.3.8 Currency < Ccy>

Presence: [0..1]

Definition: Currency of a Loyalty Account if any.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 468

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.

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10.1.7.3.9 Balance <Bal>

Presence: [0..1]

Definition: Balance of a Loyalty Account.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.7.4 DataSetIdentification9

Definition: Identification of a data set.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

10.1.7.4.1 Name < Nm>

Presence: [0..1]

Definition: Name of the data set.

Datatype: "Max256Text" on page 522

10.1.7.4.2 Type <Tp>

Presence: [1..1]

Definition: Category of data set.

Datatype: "DataSetCategory17Code" on page 488

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.

CodeName	Name	Definition
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.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

10.1.7.4.3 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data set.

Datatype: "Max256Text" on page 522

10.1.7.4.4 CreationDateTime <CreDtTm>

Presence: [0..1]

Definition: Date and time of creation of the data set.

Datatype: "ISODateTime" on page 517

10.1.7.5 CardPaymentEnvironment78

Definition: Environment of the transaction.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Acquirer <acqrr></acqrr>	[01]	±		287
	Merchant < Mrchnt>	[01]			287
	Identification <id></id>	[01]	±		287
	CommonName < CmonNm>	[01]	Text		288
	LocationCategory < LctnCtgy>	[01]	CodeSet		288
	LocationAndContact < LctnAndCtct>	[01]	±		288
	SchemeData < SchmeData >	[01]	Text		289
	POI <poi></poi>	[01]			289
	Identification <id></id>	[11]	±		289
	SystemName <sysnm></sysnm>	[01]	Text		290
	GroupIdentification < GrpId>	[01]	Text		290
	Capabilities < Cpblties>	[01]	±		290
	TimeZone < TmZone >	[01]	Text		291
	TerminalIntegration < TermnlIntgtn>	[01]	CodeSet		291
	Component < Cmpnt>	[0*]	±		292
	Card < Card>	[01]			294
	ProtectedCardData < PrtctdCardData >	[01]	±		295
	PrivateCardData < PrvtCardData >	[01]	Binary		295
	PlainCardData < PlainCardData>	[01]	±		295
	PaymentAccountReference < PmtAcctRef>	[01]	Text		296
	MaskedPAN < MskdPAN>	[01]	Text		296
	IssuerBIN	[01]	Text		296
	CardCountryCode < CardCtryCd>	[01]	Text		296
	CardCurrencyCode < CardCcyCd>	[01]	Text		296
	CardProductProfile < CardPdctPrfl>	[01]	Text		297
	CardBrand < CardBrnd>	[01]	Text		297
	CardProductType < CardPdctTp>	[01]	CodeSet		297
	CardProductSubType < CardPdctSubTp>	[01]	Text		297
	InternationalCard < IntrnlCard>	[01]	Indicator		297
	AllowedProduct < AllwdPdct>	[0*]	Text		297
	ServiceOption <svcoptn></svcoptn>	[01]	Text		298

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AdditionalCardData < AddtlCardData >	[01]	Text		298
	Check < Chck >	[01]			298
	BankIdentification < BkId>	[01]	Text		298
	AccountNumber <acctnb></acctnb>	[01]	Text		298
	CheckNumber < ChckNb>	[01]	Text		298
	CheckCardNumber < ChckCardNb>	[01]	Text		299
	CheckTrackData2 < ChckTrckData2 >	[01]			299
	TrackNumber < TrckNb>	[01]	Quantity		299
	TrackFormat < TrckFrmt>	[01]	CodeSet		299
	TrackValue <i><trckval></trckval></i>	[11]	Text		300
	CheckType <chcktp></chcktp>	[01]	CodeSet		300
	Country < Ctry>	[01]	Text		300
	StoredValueAccount <stordvalacct></stordvalacct>	[0*]			300
	AccountType <accttp></accttp>	[01]	CodeSet		301
	IdentificationType <idtp></idtp>	[01]	CodeSet		302
	Identification <id></id>	[01]	Text		302
	Brand <brnd></brnd>	[01]	Text		302
	Provider < <i>Prvdr></i>	[01]	Text		302
	OwnerName < OwnrNm>	[01]	Text		302
	ExpiryDate <xprydt></xprydt>	[01]	Text		303
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		303
	Currency < Ccy>	[01]	CodeSet	C1	303
	Balance <bal></bal>	[01]	Amount		304
	LoyaltyAccount <lltyacct></lltyacct>	[0*]	±		304
	CustomerDevice < CstmrDvc>	[01]	±		304
	Wallet < Wllt>	[01]	±		304
	PaymentToken < PmtTkn>	[01]	±		305
	MerchantToken < MrchntTkn>	[01]	±		305
	Cardholder < Crdhldr>	[01]			306
	Identification	[01]			310
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		310

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		310
	DriverLicenseName < DrvrLicNm>	[01]	Text		311
	DriverIdentification < DrvrId>	[01]	Text		311
	CustomerNumber < CstmrNb>	[01]	Text		311
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		311
	AlienRegistrationNumber < AlnRegnNb>	[01]	Text		311
	PassportNumber < PsptNb>	[01]	Text		311
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		311
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		311
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		312
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		312
	JobNumber < JobNb>	[01]	Text		312
	Department < Dept>	[01]	Text		312
	EmailAddress < EmailAdr>	[01]	Text		312
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			312
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	313
	Other < Othr>	[0*]	±		313
	Name < <i>Nm</i> >	[01]	Text		313
	Language <lang></lang>	[01]	CodeSet	C6	313
	BillingAddress < BllgAdr>	[01]	±		314
	ShippingAddress <shppgadr></shppgadr>	[01]	±		314
	TripNumber < <i>TripNb</i> >	[01]	Text		315
	Vehicle <vhcl></vhcl>	[01]	±		315
	Authentication < Authntcn>	[0*]			316
	AuthenticationMethod < AuthntcnMtd>	[01]	CodeSet		318
	AuthenticationExemption < AuthntcnXmptn>	[01]	CodeSet		319
	AuthenticationValue < AuthntcnVal>	[01]	Binary		320
	ProtectedAuthenticationValue < PrtctdAuthntcnVal>	[01]	±		320

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	CardholderOnLinePIN < CrdhldrOnLinePIN>	[01]			320
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		321
	CardholderIdentification < CrdhldrId>	[01]			321
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber < CstmrNb>	[01]	Text		323
	SocialSecurityNumber < SclSctyNb>	[01]	Text		323
	AlienRegistrationNumber < AlnRegnNb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber < IdntyCardNb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeldentificationNumber < MplyeeldNb>	[01]	Text		324
	JobNumber < JobNb>	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325
	Other < Othr>	[0*]	±		325
	AddressVerification < AdrVrfctn>	[01]			325
	AddressDigits <adrdgts></adrdgts>	[01]	Text		325
	PostalCodeDigits < PstlCdDgts>	[01]	Text		326
	AuthenticationType < AuthntcnTp>	[01]	Text		326
	AuthenticationLevel < AuthntcnLvl>	[01]	Text		326

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AuthenticationResult < AuthntcnRslt>	[01]	CodeSet		326
	AuthenticationAdditionalInformation < AuthntcnAddtlInf >	[01]			326
	Identification <id></id>	[11]	Text		327
	Value < <i>Val</i> >	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type <tp></tp>	[01]	Text		327
	TransactionVerificationResult <txvrfctnrslt></txvrfctnrslt>	[0*]			327
	Method < Mtd>	[11]	CodeSet		328
	VerificationEntity < VrfctnNtty>	[01]	CodeSet		329
	Result <rs t=""></rs>	[01]	CodeSet		329
	AdditionalResult < AddtlRslt>	[01]	Text		329
	PersonalData < PrsnlData >	[01]	Text		330
	MobileData < MobData >	[0*]			330
	MobileCountryCode < MobCtryCd>	[01]	Text		330
	MobileNetworkCode < MobNtwkCd>	[01]	Text		330
	MobileMaskedMSISDN < MobMskdMSISDN>	[01]	Text		331
	Geolocation < Glctn>	[01]			331
	GeographicCoordinates < GeogcCordints>	[01]			331
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < UTMNrthwrd>	[11]	Text		332
	SensitiveMobileData < SnstvMobData>	[01]			332
	MSISDN < MSISDN>	[11]	Text		333
	IMSI <imsi></imsi>	[01]	Text		333
	IMEI <imei></imei>	[01]	Text		333
	ProtectedMobileData < PrtctdMobData >	[01]	±		333
	ProtectedCardholderData < PrtctdCrdhldrData>	[01]	±		333
	SaleEnvironment <saleenvt></saleenvt>	[01]			334

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	SaleCapabilities <salecpblties></salecpblties>	[0*]	CodeSet		334
	Currency < Ccy>	[01]	CodeSet	C1	335
	MinimumAmountToDeliver < MinAmtToDlvr>	[01]	Amount		335
	MaximumCashBackAmount < MaxCshBckAmt>	[01]	Amount		335
	MinimumSplitAmount < MinSpltAmt>	[01]	Amount		336
	DebitPreferredFlag < DbtPrefrdFlg>	[01]	Indicator		336
	LoyaltyHandling <i><lltyhdlg></lltyhdlg></i>	[01]	CodeSet		336

10.1.7.5.1 Acquirer <Acqrr>

Presence: [0..1]

Definition: Acquirer involved in the card payment.

Acquirer <Acqrr> contains the following elements (see "Acquirer10" on page 135 for details)

(Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		Identification	[01]	±		135
		ParametersVersion < ParamsVrsn>	[01]	Text		135

10.1.7.5.2 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 Organisation41 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[01]	±		287
	CommonName < CmonNm>	[01]	Text		288
	LocationCategory < LctnCtgy>	[01]	CodeSet		288
	LocationAndContact < LctnAndCtct>	[01]	±		288
	SchemeData < SchmeData >	[01]	Text		289

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10.1.7.5.2.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the merchant.

Identification <Id> contains the following elements (see <u>"GenericIdentification32" on page 252</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		252
	Type < <i>Tp</i> >	[01]	CodeSet		252
	Issuer	[01]	CodeSet		253
	ShortName <shrtnm></shrtnm>	[01]	Text		253

10.1.7.5.2.2 CommonName < CmonNm>

Presence: [0..1]

Definition: Name of the merchant as appearing on the receipt.

Datatype: "Max70Text" on page 525

10.1.7.5.2.3 LocationCategory <LctnCtgy>

Presence: [0..1]

Definition: Location category of the place where the merchant actually performed the transaction.

Datatype: "LocationCategory4Code" on page 494

CodeName	Name	Definition
ABRD	Aboard	Aboard is used when the sale is done in a vehicle (e.g a bus, train, ship, airplane, taxi, etc).
NMDC	Nomadic	Nomadic is used when the merchant is traveling to different locations (e.g fair or sport events, home delivery, food truck).
FIXD	PhysicalShop	Fixed location, for example in a shop.
VIRT	VirtualShop	Virtual Shop is used for any ecommerce solution.

10.1.7.5.2.4 LocationAndContact <LctnAndCtct>

Presence: [0..1]

Definition: Location and contact information of the merchant performing the transaction.

LocationAndContact <LctnAndCtct> contains the following elements (see <u>"CommunicationAddress9"</u> on page 198 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PostalAddress < PstlAdr>	[01]	±		198
	Email < <i>Email</i> >	[01]	Text		198
	URLAddress < URLAdr>	[01]	Text		199
	Phone <phne></phne>	[01]	Text		199
	CustomerService < CstmrSvc>	[01]	Text		199
	AdditionalContactInformation < AddtlCtctInf>	[01]	Text		199

10.1.7.5.2.5 SchemeData <SchmeData>

Presence: [0..1]

Definition: Additional merchant data required by a card scheme.

Datatype: "Max140Text" on page 522

10.1.7.5.3 POI <POI>

Presence: [0..1]

Definition: Point of interaction (POI) performing the transaction.

POI <POI> contains the following PointOfInteraction12 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	±		289
	SystemName <sysnm></sysnm>	[01]	Text		290
	GroupIdentification < GrpId>	[01]	Text		290
	Capabilities < Cpblties>	[01]	±		290
	TimeZone < TmZone>	[01]	Text		291
	TerminalIntegration < TermnlIntgtn>	[01]	CodeSet		291
	Component < Cmpnt>	[0*]	±		292

10.1.7.5.3.1 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 <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type <tp></tp>	[01]	CodeSet		254
	Issuer < Issr>	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < UTMZone>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward <utmnrthwrd></utmnrthwrd>	[11]	Text		258

10.1.7.5.3.2 SystemName <SysNm>

Presence: [0..1]

Definition: Common name assigned by the acquirer to the POI (Point Of Interaction) system.

Datatype: "Max70Text" on page 525

10.1.7.5.3.3 GroupIdentification < GrpId>

Presence: [0..1]

Definition: Identifier assigned by the merchant identifying a set of POI (Point Of Interaction) terminals

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performing some categories of transactions.

Datatype: "Max35Text" on page 523

10.1.7.5.3.4 Capabilities < Cpblties>

Presence: [0..1]

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

Capabilities <Cpblties> contains the following elements (see <u>"PointOfInteractionCapabilities9" on page 381</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	CardReadingCapabilities < CardRdngCpblties>	[0*]	CodeSet		382
	CardholderVerificationCapabilities < CrdhldrVrfctnCpblties>	[0*]	CodeSet		383
	PINLengthCapabilities < PINLngthCpblties>	[01]	Quantity		383
	ApprovalCodeLength < ApprvlCdLngth>	[01]	Quantity		383
	MaxScriptLength < MxScrptLngth>	[01]	Quantity		384
	CardCaptureCapable < CardCaptrCpbl>	[01]	Indicator		384
	OnLineCapabilities < OnLineCpblties>	[01]	CodeSet		384
	MessageCapabilities < MsgCpblties>	[0*]			384
	Destination <dstn></dstn>	[1*]	CodeSet		384
	AvailableFormat <avlblfrmt></avlblfrmt>	[0*]	CodeSet		385
	NumberOfLines < NbOfLines>	[01]	Quantity		385
	LineWidth <linewidth></linewidth>	[01]	Quantity		385
	AvailableLanguage < AvlblLang>	[0*]	CodeSet	C6	385

10.1.7.5.3.5 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 525

10.1.7.5.3.6 TerminalIntegration <TermnIIntgtn>

Presence: [0..1]

Definition: Indicates the type of integration of the POI terminal in the sale environment.

Datatype: "LocationCategory3Code" on page 494

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.

10.1.7.5.3.7 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 "PointOfInteractionComponent12" on page 361 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		363
	SubTypeInformation <subtpinf></subtpinf>	[01]	Text		364
	Identification <id></id>	[11]			365
	ItemNumber < ItmNb>	[01]	Text		365
	ProviderIdentification < Prvdrld>	[01]	Text		365
	Identification <id></id>	[01]	Text		365
	SerialNumber < <i>SrlNb</i> >	[01]	Text		365
	Status <sts></sts>	[01]			365
	VersionNumber < VrsnNb>	[01]	Text		366
	Status <sts></sts>	[01]	CodeSet		366
	ExpiryDate <xprydt></xprydt>	[01]	Date		366
	StandardCompliance <stdcmplc></stdcmplc>	[0*]			366
	Identification <id></id>	[11]	Text		366
	Version < Vrsn>	[11]	Text		367
	Issuer <issr></issr>	[11]	Text		367
	Characteristics < Chrtcs>	[01]			367
	Memory < Mmry>	[0*]			368
	Identification <id></id>	[11]	Text		369
	TotalSize < TtlSz>	[11]	Quantity		369
	FreeSize <freesz></freesz>	[11]	Quantity		369
	Unit < <i>Unit</i> >	[11]	CodeSet		369
	Communication < Com>	[0*]			369
	CommunicationType < ComTp>	[11]	CodeSet		370
	RemoteParty < RmotPty>	[1*]	CodeSet		371
	Active <actv></actv>	[11]	Indicator		371
	Parameters < Params>	[01]	±		371
	PhysicalInterface < PhysIntrfc>	[01]			372
	InterfaceName <intrfcnm></intrfcnm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < UsrNm>	[01]	Text		373

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AccessCode <accscd></accscd>	[01]	Binary		373
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373
	SecurityAccessModules < SctyAccsMdls>	[01]	Quantity		374
	SubscriberIdentityModules <sbcbrldntymdls></sbcbrldntymdls>	[01]	Quantity		374
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		374
	Assessment < Assmnt>	[0*]			374
	Type < <i>Tp</i> >	[11]	CodeSet		375
	Assigner <assgnr></assgnr>	[1*]	Text		375
	DeliveryDate < DlvryDt>	[01]	DateTime		375
	ExpirationDate <xprtndt></xprtndt>	[01]	DateTime		375
	Number <nb></nb>	[11]	Text		375
	Package < <i>Packg</i> >	[0*]			376
	PackageIdentification < PackgId>	[01]	±		376
	PackageLength < PackgLngth>	[01]	Quantity		376
	OffsetStart < OffsetStart>	[01]	Quantity		376
	OffsetEnd < OffsetEnd>	[01]	Quantity		377
	PackageBlock < PackgBlck>	[0*]			377
	Identification	[11]	Text		377
	Value < <i>Val</i> >	[01]	Binary		377
	ProtectedValue < PrtctdVal>	[01]	±		377
	Type < <i>Tp</i> >	[01]	Text		378

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10.1.7.5.4 Card < Card>

Presence: [0..1]

Definition: Payment card performing the transaction.

Card < Card > contains the following Payment Card 32 elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	ProtectedCardData < PrtctdCardData >	[01]	±		295
	PrivateCardData < PrvtCardData >	[01]	Binary		295
	PlainCardData < PlainCardData>	[01]	±		295
	PaymentAccountReference < PmtAcctRef>	[01]	Text		296
	MaskedPAN < MskdPAN>	[01]	Text		296
	IssuerBIN	[01]	Text		296
	CardCountryCode < CardCtryCd>	[01]	Text		296
	CardCurrencyCode < CardCcyCd>	[01]	Text		296
	CardProductProfile < CardPdctPrfl>	[01]	Text		297
	CardBrand < CardBrnd>	[01]	Text		297
	CardProductType < CardPdctTp>	[01]	CodeSet		297
	CardProductSubType < CardPdctSubTp>	[01]	Text		297
	InternationalCard	[01]	Indicator		297
	AllowedProduct < AllwdPdct>	[0*]	Text		297
	ServiceOption <svcoptn></svcoptn>	[01]	Text		298
	AdditionalCardData < AddtlCardData >	[01]	Text		298

10.1.7.5.4.1 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 "ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType <cntttp></cntttp>	[11]	CodeSet		428
	EnvelopedData < EnvlpdData >	[11]	±		429

10.1.7.5.4.2 PrivateCardData < PrvtCardData >

Presence: [0..1]

Definition: Replacement of the message element PlainCardData by a private envelope.

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Datatype: "Max100KBinary" on page 465

10.1.7.5.4.3 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 199 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PAN <pan></pan>	[11]	Text		200
	CardSequenceNumber < CardSeqNb>	[01]	Text		200
	EffectiveDate <fctvdt></fctvdt>	[01]	Text		200
	ExpiryDate <xprydt></xprydt>	[11]	Text		200
	ServiceCode <svccd></svccd>	[01]	Text		200
	Track1 < Trck1 >	[01]	Text		200
	Track2 < Trck2 >	[01]	Text		200
	Track3 < Trck3>	[01]	Text		200
	CardholderName < CrdhldrNm>	[01]	Text		201

10.1.7.5.4.4 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 525

10.1.7.5.4.5 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 523

10.1.7.5.4.6 IssuerBIN <IssrBIN>

Presence: [0..1]

Definition: Bank identifier number of the issuer for routing purpose.

Datatype: "Max15NumericText" on page 522

10.1.7.5.4.7 CardCountryCode <CardCtryCd>

Presence: [0..1]

Definition: Country code assigned to the card by the card issuer.

Datatype: "Max3Text" on page 524

10.1.7.5.4.8 CardCurrencyCode <CardCcyCd>

Presence: [0..1]

Definition: Currency code of the card issuer (ISO 4217 numeric code).

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Datatype: "Exact3AlphaNumericText" on page 520

10.1.7.5.4.9 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 523

10.1.7.5.4.10 CardBrand < CardBrnd>

Presence: [0..1]

Definition: Brand name of the card.

Datatype: "Max35Text" on page 523

10.1.7.5.4.11 CardProductType <CardPdctTp>

Presence: [0..1]

Definition: Type of card product.

Datatype: "CardProductType1Code" on page 484

CodeName	Name	Definition
СОММ	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.

10.1.7.5.4.12 CardProductSubType <CardPdctSubTp>

Presence: [0..1]

Definition: Additional information to identify CardProduct.

Datatype: "Max35Text" on page 523

10.1.7.5.4.13 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 519):

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· Meaning When True: True

· Meaning When False: False

10.1.7.5.4.14 AllowedProduct <AllwdPdct>

Presence: [0..*]

Definition: Product that can be purchased with the card.

Datatype: "Max70Text" on page 525

10.1.7.5.4.15 ServiceOption <SvcOptn>

Presence: [0..1]

Definition: Options to the service provided by the card.

Datatype: "Max35Text" on page 523

10.1.7.5.4.16 AdditionalCardData < AddtlCardData >

Presence: [0..1]

Definition: Additional card issuer specific data.

Datatype: "Max70Text" on page 525

10.1.7.5.5 Check < Chck>

Presence: [0..1]

Definition: Check Payment instrument.

Check < Chck > contains the following Check1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	BankIdentification < BkId>	[01]	Text		298
	AccountNumber <acctnb></acctnb>	[01]	Text		298
	CheckNumber < ChckNb>	[01]	Text		298
	CheckCardNumber < ChckCardNb>	[01]	Text		299
	CheckTrackData2 < ChckTrckData2 >	[01]			299
	TrackNumber < TrckNb>	[01]	Quantity		299
	TrackFormat < TrckFrmt>	[01]	CodeSet		299
	TrackValue < TrckVal>	[11]	Text		300
	CheckType <chcktp></chcktp>	[01]	CodeSet		300
	Country < Ctry>	[01]	Text		300

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10.1.7.5.5.1 BankIdentification < BkId>

Presence: [0..1]

Definition: Identification of the institution (bank) issuing the check.

Datatype: "Max35Text" on page 523

10.1.7.5.5.2 AccountNumber <AcctNb>

Presence: [0..1]

Definition: Identification of the account linked to the check.

Datatype: "Max35Text" on page 523

10.1.7.5.5.3 CheckNumber < ChckNb>

Presence: [0..1]

Definition: Identification of the check.

Datatype: "Max35Text" on page 523

10.1.7.5.5.4 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 523

10.1.7.5.5.5 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=""></xml>	Mult.	Туре	Constr. No.	Page
	TrackNumber < TrckNb>	[01]	Quantity		299
	TrackFormat < TrckFrmt>	[01]	CodeSet		299
	TrackValue <i><trckval></trckval></i>	[11]	Text	-	300

10.1.7.5.5.5.1 TrackNumber < TrckNb>

Presence: [0..1]

Definition: Track number of the card.

Datatype: "Number" on page 519

10.1.7.5.5.5.2 TrackFormat <TrckFrmt>

Presence: [0..1]

Definition: Card or check track format.

Datatype: "TrackFormat1Code" on page 515

CodeName	Name	Definition
AAMV	AAMVAFormat	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.

10.1.7.5.5.5.3 TrackValue <TrckVal>

Presence: [1..1]

Definition: Card track content or equivalent.

Datatype: "Max140Text" on page 522

10.1.7.5.5.6 CheckType <ChckTp>

Presence: [0..1]

Definition: Type of the check (personal or professional).

Datatype: "CheckType1Code" on page 485

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.

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10.1.7.5.5.7 Country <Ctry>

Presence: [0..1]

Definition: Country of the check.

Datatype: "Max3Text" on page 524

10.1.7.5.6 StoredValueAccount <StordValAcct>

Presence: [0..*]

Definition: Store value account payment instrument.

StoredValueAccount <StordValAcct> contains the following StoredValueAccount2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AccountType <accttp></accttp>	[01]	CodeSet		301
	IdentificationType <idtp></idtp>	[01]	CodeSet		302
	Identification	[01]	Text		302
	Brand < <i>Brnd</i> >	[01]	Text		302
	Provider < <i>Prvdr</i> >	[01]	Text		302
	OwnerName < OwnrNm>	[01]	Text		302
	ExpiryDate <xprydt></xprydt>	[01]	Text		303
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		303
	Currency <ccy></ccy>	[01]	CodeSet	C1	303
	Balance <bal></bal>	[01]	Amount		304

10.1.7.5.6.1 AccountType <AcctTp>

Presence: [0..1]

Definition: Type of stored value account.

Datatype: "StoredValueAccountType1Code" on page 511

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
СРҮА	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	•	Stored value account hold on the chip of a smart card.
TRVL	Travel	Travel prepaid account.

10.1.7.5.6.2 IdentificationType <IdTp>

Presence: [0..1]

Definition: Type of identification for this Stored Value Account.

Datatype: "CardIdentificationType1Code" on page 484

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.

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10.1.7.5.6.3 Identification <Id>

Presence: [0..1]

Definition: Identification of Stored Value Account.

Datatype: "Max35Text" on page 523

10.1.7.5.6.4 Brand <Brnd>

Presence: [0..1]

Definition: Brand to which belong the account.

Datatype: "Max35Text" on page 523

10.1.7.5.6.5 Provider < Prvdr>

Presence: [0..1]

Definition: Provider of the Stored Value Account.

Datatype: "Max35Text" on page 523

10.1.7.5.6.6 OwnerName < OwnrNm>

Presence: [0..1]

Definition: Owner name of an account.

Datatype: "Max45Text" on page 524

10.1.7.5.6.7 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiry date of the account of card.

Datatype: "Max10Text" on page 521

10.1.7.5.6.8 EntryMode <NtryMd>

Presence: [0..1]

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

Datatype: "CardDataReading8Code" on page 482

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.)

10.1.7.5.6.9 Currency <Ccy>

Presence: [0..1]

Definition: Currency of the Stored Value account.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 468

Constraints

ActiveCurrency

The currency code must be a valid active currency code, not yet withdrawn on the day the message containing the currency is exchanged. Valid active currency codes are registered with the ISO 4217

Maintenance Agency, consist of three (3) contiguous letters, and are not yet withdrawn on the day the message containing the Currency is exchanged.

10.1.7.5.6.10 Balance <Bal>

Presence: [0..1]

Definition: Current balance of the Stored Value account.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.7.5.7 LoyaltyAccount <LltyAcct>

Presence: [0..*]

Definition: Store value account associated to the payment.

LoyaltyAccount <LityAcct> contains the following elements (see "LoyaltyAccount3" on page 277 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	LoyaltyIdentification <lltyid></lltyid>	[11]	Text		277
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		277
	IdentificationType <idtp></idtp>	[01]	CodeSet		278
	Brand < <i>Brnd</i> >	[01]	Text		279
	Provider < <i>Prvdr</i> >	[01]	Text		279
	OwnerName < OwnrNm>	[01]	Text		279
	Unit < <i>Unit</i> >	[01]	CodeSet		279
	Currency <ccy></ccy>	[01]	CodeSet	C1	279
	Balance <bal></bal>	[01]	Amount		279

10.1.7.5.8 CustomerDevice <CstmrDvc>

Presence: [0..1]

Definition: Device used by the customer to perform the payment transaction.

CustomerDevice <CstmrDvc> contains the following elements (see "CustomerDevice3" on page 380 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[01]	Text		380
	Type < <i>Tp</i> >	[01]	Text		380
	Provider < <i>Prvdr</i> >	[01]	Text		380

10.1.7.5.9 Wallet <WIIt>

Presence: [0..1]

Definition: Container for tenders used by the customer to perform the payment transaction.

Wallet <WIlt> contains the following elements (see "CustomerDevice3" on page 380 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[01]	Text		380
	Type <tp></tp>	[01]	Text		380
	Provider < <i>Prvdr</i> >	[01]	Text		380

10.1.7.5.10 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "Token1" on page 462 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PaymentToken < <i>PmtTkn</i> >	[01]	Text		462
	TokenExpiryDate < TknXpryDt>	[01]	Text		462
	TokenRequestorIdentification < TknRqstrld>	[01]	Text		462
	TokenAssuranceData < TknAssrncData >	[01]	Text		463
	TokenAssuranceMethod < TknAssrncMtd>	[01]	Text		463
	TokenInitiatedIndicator < TknInittdInd>	[01]	Indicator		463

10.1.7.5.11 MerchantToken < MrchntTkn>

Presence: [0..1]

Definition: Merchant token information.

MerchantToken <MrchntTkn> contains the following elements (see "MerchantToken2" on page 463

for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Token < <i>Tkn</i> >	[01]	Text		463
	TokenExpiryDate < TknXpryDt>	[01]	Text		464
	TokenCharacteristic < TknChrtc>	[0*]	Text		464
	TokenRequestor < TknRqstr>	[01]			464
	ProviderIdentification < Prvdrld>	[11]	Text		464
	RequestorIdentification < Rqstrld>	[11]	Text		464
	TokenAssuranceLevel < TknAssrncLvl>	[01]	Quantity		464
	TokenAssuranceData < TknAssrncData >	[01]	Binary		464
	TokenAssuranceMethod < TknAssrncMtd>	[01]	Text		465
	TokenInitiatedIndicator < TknInittdInd>	[01]	Indicator		465

10.1.7.5.12 Cardholder < Crdhldr>

Presence: [0..1]

Definition: Cardholder involved in the card payment.

Cardholder < Crdhldr> contains the following Cardholder18 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[01]			310
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		310
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		310
	DriverLicenseName < DrvrLicNm>	[01]	Text		311
	DriverIdentification < DrvrId>	[01]	Text		311
	CustomerNumber <cstmrnb></cstmrnb>	[01]	Text		311
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		311
	AlienRegistrationNumber < AInRegnNb>	[01]	Text		311
	PassportNumber < PsptNb>	[01]	Text		311
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		311
	IdentityCardNumber < IdntyCardNb>	[01]	Text		311
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		312
	EmployeeldentificationNumber < MplyeeldNb>	[01]	Text		312
	JobNumber < JobNb>	[01]	Text		312
	Department < Dept>	[01]	Text		312
	EmailAddress < EmailAdr>	[01]	Text		312
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			312
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	313
	Other < Othr>	[0*]	±		313
	Name <nm></nm>	[01]	Text		313
	Language <lang></lang>	[01]	CodeSet	C6	313
	BillingAddress < BllgAdr>	[01]	±		314
	ShippingAddress <shppgadr></shppgadr>	[01]	±		314
	TripNumber < TripNb>	[01]	Text		315
	Vehicle <vhcl></vhcl>	[01]	±		315
	Authentication < Authntcn>	[0*]			316
	AuthenticationMethod < AuthntcnMtd>	[01]	CodeSet		318
	AuthenticationExemption < AuthntcnXmptn>	[01]	CodeSet		319

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AuthenticationValue < AuthntcnVal>	[01]	Binary		320
	ProtectedAuthenticationValue < PrtctdAuthntcnVal>	[01]	±		320
	CardholderOnLinePIN < CrdhldrOnLinePIN>	[01]			320
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput < AddtlInpt>	[01]	Text		321
	CardholderIdentification < Crdhldrld>	[01]			321
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber < CstmrNb>	[01]	Text		323
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		323
	AlienRegistrationNumber < AlnRegnNb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber < IdntyCardNb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		324
	JobNumber < <i>JobNb</i> >	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325
	Other < Othr>	[0*]	±		325
	AddressVerification < AdrVrfctn>	[01]			325
	AddressDigits < AdrDgts>	[01]	Text		325
	PostalCodeDigits < PstlCdDgts>	[01]	Text		326

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AuthenticationType <authntcntp></authntcntp>	[01]	Text		326
	AuthenticationLevel < AuthntcnLvl>	[01]	Text		326
	AuthenticationResult < AuthntcnRslt>	[01]	CodeSet		326
	AuthenticationAdditionalInformation < AuthntcnAddtlInf>	[01]			326
	Identification <id></id>	[11]	Text		327
	Value < <i>Val</i> >	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type < <i>Tp</i> >	[01]	Text		327
	TransactionVerificationResult <txvrfctnrslt></txvrfctnrslt>	[0*]			327
	Method <mtd></mtd>	[11]	CodeSet		328
	VerificationEntity < VrfctnNtty>	[01]	CodeSet		329
	Result <rslt></rslt>	[01]	CodeSet		329
	AdditionalResult < AddtlRslt>	[01]	Text		329
	PersonalData < PrsnlData >	[01]	Text		330
	MobileData < MobData >	[0*]			330
	MobileCountryCode < MobCtryCd>	[01]	Text		330
	MobileNetworkCode < MobNtwkCd>	[01]	Text		330
	MobileMaskedMSISDN < MobMskdMSISDN>	[01]	Text		331
	Geolocation < Glctn>	[01]			331
	GeographicCoordinates < GeogcCordints>	[01]			331
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone <utmzone></utmzone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < UTMNrthwrd>	[11]	Text		332
	SensitiveMobileData <snstvmobdata></snstvmobdata>	[01]			332
	MSISDN < MSISDN>	[11]	Text		333
	IMSI	[01]	Text		333
	IMEI	[01]	Text		333
	ProtectedMobileData < PrtctdMobData >	[01]	±		333

10.1.7.5.12.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the cardholder involved in a transaction.

Identification <Id> contains the following **PersonIdentification15** elements

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		310
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		310
	DriverLicenseName < DrvrLicNm>	[01]	Text		311
	DriverIdentification < DrvrId>	[01]	Text		311
	CustomerNumber < CstmrNb>	[01]	Text		311
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		311
	AlienRegistrationNumber <ainregnnb></ainregnnb>	[01]	Text		311
	PassportNumber < PsptNb>	[01]	Text		311
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		311
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		311
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		312
	EmployeeIdentificationNumber < MplyeeIdNb>	[01]	Text		312
	JobNumber < JobNb>	[01]	Text		312
	Department < Dept>	[01]	Text		312
	EmailAddress < EmailAdr>	[01]	Text		312
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			312
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	313
	Other < Othr>	[0*]	±		313

10.1.7.5.12.1.1 DriverLicenseNumber < DrvrLicNb>

Presence: [0..1]

Definition: Number assigned by a license authority to a driver's license.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.2 DriverLicenseLocation < DrvrLicLctn>

Presence: [0..1]

Definition: Country, state or province, issuer of the driver license.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.3 DriverLicenseName < DrvrLicNm>

Presence: [0..1]

Definition: Name or title of the driver license.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.4 DriverIdentification < Dryrld>

Presence: [0..1]

Definition: Identification of the driver in the fleet of vehicle.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.5 CustomerNumber <CstmrNb>

Presence: [0..1]

Definition: Number assigned by an agent to identify its customer.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.6 SocialSecurityNumber <ScISctyNb>

Presence: [0..1]

Definition: Number assigned by a social security agency.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.7 AlienRegistrationNumber <AlnRegnNb>

Presence: [0..1]

Definition: Number assigned by a government agency to identify foreign nationals.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.8 PassportNumber <PsptNb>

Presence: [0..1]

Definition: Number assigned by a passport authority to a passport.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.9 TaxIdentificationNumber <TaxIdNb>

Presence: [0..1]

Definition: Number assigned by a tax authority to an entity.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.10 IdentityCardNumber <IdntyCardNb>

Presence: [0..1]

Definition: Number assigned by a national authority to an identity card.

311

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.11 EmployerIdentificationNumber < MplyrIdNb>

Presence: [0..1]

Definition: Number assigned to an employer by a registration authority.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.12 EmployeeldentificationNumber < MplyeeldNb>

Presence: [0..1]

Definition: Number assigned to an employee by a employer.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.13 JobNumber <JobNb>

Presence: [0..1]

Definition: Identification of the job.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.14 Department <Dept>

Presence: [0..1]

Definition: Identification of the department.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.15 EmailAddress < EmailAdr>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 522

10.1.7.5.12.1.16 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=""></xml>	Mult.	Туре	Constr. No.	Page
	BirthDate <birthdt></birthdt>	[11]	Date		312
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		313
	CityOfBirth < CityOfBirth>	[11]	Text		313
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	313

10.1.7.5.12.1.16.1 BirthDate <BirthDt>

Presence: [1..1]

Definition: Date on which a person is born.

Datatype: "ISODate" on page 517

10.1.7.5.12.1.16.2 ProvinceOfBirth < PrvcOfBirth>

Presence: [0..1]

Definition: Province where a person was born.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.16.3 CityOfBirth <CityOfBirth>

Presence: [1..1]

Definition: City where a person was born.

Datatype: "Max35Text" on page 523

10.1.7.5.12.1.16.4 CountryOfBirth < CtryOfBirth>

Presence: [1..1]

Definition: Country where a person was born.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 485

Constraints

Country

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

10.1.7.5.12.1.17 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 260 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		260
	IdentificationType	[11]	Text		260

10.1.7.5.12.2 Name < Nm>

Presence: [0..1]

Definition: Cardholder name associated with the card.

Datatype: "Max45Text" on page 524

10.1.7.5.12.3 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 493

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.1.7.5.12.4 BillingAddress <BllgAdr>

Presence: [0..1]

Definition: Postal address of the owner of the payment card.

BillingAddress <BligAdr> contains the following elements (see <u>"PostalAddress22" on page 401</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AddressType < <i>AdrTp</i> >	[01]	CodeSet		402
	Department < Dept>	[01]	Text		402
	SubDepartment <subdept></subdept>	[01]	Text		402
	AddressLine < AdrLine>	[02]	Text		402
	StreetName <strtnm></strtnm>	[01]	Text		403
	BuildingNumber <i><bldgnb></bldgnb></i>	[01]	Text		403
	PostCode <pstcd></pstcd>	[01]	Text		403
	TownName < TwnNm>	[01]	Text		403
	CountrySubDivision < CtrySubDvsn>	[02]	Text		403
	CountryCode < CtryCd>	[01]	Text		403

10.1.7.5.12.5 ShippingAddress <ShppgAdr>

Presence: [0..1]

Definition: Postal address for delivery of goods or services.

ShippingAddress <ShppgAdr> contains the following elements (see <u>"PostalAddress22" on page 401</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AddressType <adrtp></adrtp>	[01]	CodeSet		402
	Department < Dept>	[01]	Text		402
	SubDepartment <subdept></subdept>	[01]	Text		402
	AddressLine <adrline></adrline>	[02]	Text		402
	StreetName <strtnm></strtnm>	[01]	Text		403
	BuildingNumber < BldgNb>	[01]	Text		403
	PostCode <pstcd></pstcd>	[01]	Text		403
	TownName < TwnNm>	[01]	Text		403
	CountrySubDivision < CtrySubDvsn>	[02]	Text		403
	CountryCode <ctrycd></ctrycd>	[01]	Text		403

10.1.7.5.12.6 TripNumber <TripNb>

Presence: [0..1]

Definition: Identification of the trip.

Datatype: "Max35Text" on page 523

10.1.7.5.12.7 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 386 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	VehicleNumber < VhcINb>	[01]	Text		386
	TrailerNumber < TrlrNb>	[01]	Text		387
	VehicleTag < <i>VhclTag</i> >	[01]	Text		387
	VehicleTagEntryMode < VhclTagNtryMd>	[01]	CodeSet		387
	UnitNumber <unitnb></unitnb>	[01]	Text		387
	ReplacementCar < RplcmntCar>	[01]	Indicator		387
	Odometer < Odmtr>	[01]	Quantity		388
	Hubometer <hbmtr></hbmtr>	[01]	Quantity		388
	TrailerHours < TrlrHrs>	[01]	Text		388
	ReferHours < RefrHrs>	[01]	Text		388
	MaintenanceIdentification < Mntncld>	[01]	Text		388
	DriverOrVehicleCard < DrvrOrVhclCard>	[01]			388
	PAN < <i>PAN</i> >	[01]	Text		389
	Track1 < Trck1 >	[01]	Text		389
	Track2 < Trck2>	[01]	Text		389
	Track3 < Trck3>	[01]	Text		389
	AdditionalCardData < AddtlCardData >	[0*]	Text		389
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		389
	AdditionalVehicleData < AddtlVhclData>	[0*]			390
	Type <tp></tp>	[01]	Text		390
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		390
	Data < Data >	[11]	Text		391

10.1.7.5.12.8 Authentication < Authnton>

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 CardholderAuthentication15 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AuthenticationMethod < AuthntcnMtd>	[01]	CodeSet		318
	AuthenticationExemption < AuthntcnXmptn>	[01]	CodeSet		319
	AuthenticationValue < AuthntcnVal>	[01]	Binary		320
	ProtectedAuthenticationValue < PrtctdAuthntcnVal>	[01]	±		320
	CardholderOnLinePIN < CrdhldrOnLinePIN>	[01]			320
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		321
	CardholderIdentification < Crdhldrld>	[01]			321
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber < CstmrNb>	[01]	Text		323
	SocialSecurityNumber <sclsctynb></sclsctynb>	[01]	Text		323
	AlienRegistrationNumber < AlnRegnNb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber < IdntyCardNb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeldentificationNumber < MplyeeldNb>	[01]	Text		324
	JobNumber < JobNb>	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325
	Other < Othr>	[0*]	±		325
	AddressVerification < AdrVrfctn>	[01]			325

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AddressDigits <adrdgts></adrdgts>	[01]	Text		325
	PostalCodeDigits < PstlCdDgts>	[01]	Text		326
	AuthenticationType <authntcntp></authntcntp>	[01]	Text		326
	AuthenticationLevel < AuthntcnLvl>	[01]	Text		326
	AuthenticationResult < AuthntcnRslt>	[01]	CodeSet		326
	AuthenticationAdditionalInformation < AuthntcnAddtlInf>	[01]			326
	Identification	[11]	Text		327
	Value < <i>Val</i> >	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type < <i>Tp</i> >	[01]	Text		327

10.1.7.5.12.8.1 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 478

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.
ТОКР	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.

10.1.7.5.12.8.2 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 490

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	TransportFareOrParkingFeeUnattendedPayme ntExemption	Payment is processed in a environment where strong customer authentication is inappropriate.
ТМВЕ	TrustedMerchantBeneficiaryExemption	Cardholder has enrolled the Card Acceptor in the exemption list of strong customer authentication.

10.1.7.5.12.8.3 AuthenticationValue < AuthntcnVal>

Presence: [0..1]

Definition: Value used to authenticate the cardholder.

Datatype: "Max5000Binary" on page 467

10.1.7.5.12.8.4 ProtectedAuthenticationValue < PrtctdAuthntcnVal>

Presence: [0..1]

Definition: Protection of the authentication value.

ProtectedAuthenticationValue < PrtctdAuthntcnVal> contains the following elements (see

"ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType <cntttp></cntttp>	[11]	CodeSet		428
	EnvelopedData < EnvlpdData >	[11]	±		429

10.1.7.5.12.8.5 CardholderOnLinePIN < CrdhldrOnLinePIN>

Presence: [0..1]

Definition: Encrypted personal identification number (PIN) and related information.

CardholderOnLinePIN < CrdhldrOnLinePIN> contains the following OnLinePIN9 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		320
	PINFormat < <i>PINFrmt</i> >	[11]	CodeSet		321
	AdditionalInput <addtlinpt></addtlinpt>	[01]	Text		321

10.1.7.5.12.8.5.1 EncryptedPINBlock < NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see "ContentInformationType32" on page 428 for details)

C	Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		ContentType < <i>CnttTp</i> >	[11]	CodeSet		428
		EnvelopedData < EnvlpdData>	[11]	±		429

10.1.7.5.12.8.5.2 PINFormat <PINFrmt>

Presence: [1..1]

Definition: PIN (Personal Identification Number) format before encryption.

Datatype: "PINFormat3Code" on page 501

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.

10.1.7.5.12.8.5.3 AdditionalInput <AddtIInpt>

Presence: [0..1]

Definition: Additional information required to verify the PIN (Personal Identification Number).

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6 CardholderIdentification < Crdhldrld>

Presence: [0..1]

Definition: Identification of the cardholder to verify.

CardholderIdentification < Crdhldrld > contains the following PersonIdentification 15 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DriverLicenseNumber < DrvrLicNb>	[01]	Text		322
	DriverLicenseLocation < DrvrLicLctn>	[01]	Text		322
	DriverLicenseName < DrvrLicNm>	[01]	Text		322
	DriverIdentification < DrvrId>	[01]	Text		323
	CustomerNumber < CstmrNb>	[01]	Text		323
	SocialSecurityNumber < SclSctyNb>	[01]	Text		323
	AlienRegistrationNumber <ainregnnb></ainregnnb>	[01]	Text		323
	PassportNumber < PsptNb>	[01]	Text		323
	TaxIdentificationNumber < TaxIdNb>	[01]	Text		323
	IdentityCardNumber <idntycardnb></idntycardnb>	[01]	Text		323
	EmployerIdentificationNumber < MplyrIdNb>	[01]	Text		323
	EmployeeldentificationNumber < MplyeeldNb>	[01]	Text		324
	JobNumber < JobNb>	[01]	Text		324
	Department < Dept>	[01]	Text		324
	EmailAddress < EmailAdr>	[01]	Text		324
	DateAndPlaceOfBirth < DtAndPlcOfBirth>	[01]			324
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325
	Other <othr></othr>	[0*]	±		325
	1		1		1

10.1.7.5.12.8.6.1 DriverLicenseNumber < DrvrLicNb>

Presence: [0..1]

Definition: Number assigned by a license authority to a driver's license.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.2 DriverLicenseLocation < DrvrLicLctn>

Presence: [0..1]

Definition: Country, state or province, issuer of the driver license.

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Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.3 DriverLicenseName < DrvrLicNm>

Presence: [0..1]

Definition: Name or title of the driver license.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.4 DriverIdentification < Dryrld>

Presence: [0..1]

Definition: Identification of the driver in the fleet of vehicle.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.5 CustomerNumber <CstmrNb>

Presence: [0..1]

Definition: Number assigned by an agent to identify its customer.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.6 SocialSecurityNumber <ScISctyNb>

Presence: [0..1]

Definition: Number assigned by a social security agency.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.7 AlienRegistrationNumber <AlnRegnNb>

Presence: [0..1]

Definition: Number assigned by a government agency to identify foreign nationals.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.8 PassportNumber <PsptNb>

Presence: [0..1]

Definition: Number assigned by a passport authority to a passport.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.9 TaxIdentificationNumber <TaxIdNb>

Presence: [0..1]

Definition: Number assigned by a tax authority to an entity.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.10 IdentityCardNumber <IdntyCardNb>

Presence: [0..1]

Definition: Number assigned by a national authority to an identity card.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.11 EmployerIdentificationNumber <MplyrIdNb>

Presence: [0..1]

Definition: Number assigned to an employer by a registration authority.

323

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.12 EmployeeldentificationNumber < MplyeeldNb>

Presence: [0..1]

Definition: Number assigned to an employee by a employer.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.13 JobNumber <JobNb>

Presence: [0..1]

Definition: Identification of the job.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.14 Department < Dept>

Presence: [0..1]

Definition: Identification of the department.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.15 EmailAddress < EmailAdr>

Presence: [0..1]

Definition: Address for electronic mail (e-mail).

Datatype: "Max256Text" on page 522

10.1.7.5.12.8.6.16 DateAndPlaceOfBirth < DtAndPlcOfBirth>

Presence: [0..1]

Definition: Date and place of birth of a person.

DateAndPlaceOfBirth < DtAndPlcOfBirth> contains the following DateAndPlaceOfBirth1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	BirthDate <birthdt></birthdt>	[11]	Date		324
	ProvinceOfBirth < PrvcOfBirth>	[01]	Text		324
	CityOfBirth < CityOfBirth>	[11]	Text		325
	CountryOfBirth < CtryOfBirth>	[11]	CodeSet	C3	325

10.1.7.5.12.8.6.16.1 BirthDate <BirthDt>

Presence: [1..1]

Definition: Date on which a person is born.

Datatype: "ISODate" on page 517

10.1.7.5.12.8.6.16.2 ProvinceOfBirth < PrvcOfBirth>

Presence: [0..1]

Definition: Province where a person was born.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.16.3 CityOfBirth < CityOfBirth>

Presence: [1..1]

Definition: City where a person was born.

Datatype: "Max35Text" on page 523

10.1.7.5.12.8.6.16.4 CountryOfBirth < CtryOfBirth>

Presence: [1..1]

Definition: Country where a person was born.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 485

Constraints

Country

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

10.1.7.5.12.8.6.17 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 260 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		260
	IdentificationType	[11]	Text		260

10.1.7.5.12.8.7 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

C	Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		AddressDigits <adrdgts></adrdgts>	[01]	Text		325
		PostalCodeDigits < PstlCdDgts>	[01]	Text		326

10.1.7.5.12.8.7.1 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 524

10.1.7.5.12.8.7.2 PostalCodeDigits <PstlCdDgts>

Presence: [0..1]

Definition: Numeric characters from the cardholder's postal code.

Datatype: "Max5NumericText" on page 524

10.1.7.5.12.8.8 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 523

10.1.7.5.12.8.9 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 523

10.1.7.5.12.8.10 AuthenticationResult < AuthntcnRsIt>

Presence: [0..1]

_ _ _ _ _ _

Definition: Result of authentication.

Datatype: "AuthenticationResult1Code" on page 479

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.

10.1.7.5.12.8.11 AuthenticationAdditionalInformation < AuthntcnAddtlInf>

Presence: [0..1]

Definition: Additional information related to the result of the authentication.

AuthenticationAdditionalInformation <AuthntcnAddtlInf> contains the following ExternallyDefinedData3 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		327
	Value < Val>	[01]	Binary		327
	ProtectedValue < PrtctdVal>	[01]	±		327
	Type < <i>Tp</i> >	[01]	Text		327

10.1.7.5.12.8.11.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 521

10.1.7.5.12.8.11.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 465

10.1.7.5.12.8.11.3 ProtectedValue < PrtctdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrtctdVal> contains the following elements (see <u>"ContentInformationType30" on page 430</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData >	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData>	[01]	±		434

10.1.7.5.12.8.11.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

327

Datatype: "Max1025Text" on page 521

10.1.7.5.12.9 TransactionVerificationResult <TxVrfctnRslt>

Presence: [0..*]

Definition: Result of performed verifications for the transaction.

TransactionVerificationResult <TxVrfctnRslt> contains the following TransactionVerificationResult4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Method <mtd></mtd>	[11]	CodeSet		328
	VerificationEntity < VrfctnNtty>	[01]	CodeSet		329
	Result < Rslt>	[01]	CodeSet		329
	AdditionalResult < AddtlRslt>	[01]	Text		329

10.1.7.5.12.9.1 Method < Mtd>

Presence: [1..1]

Definition: Method of verification that has been performed.

Datatype: "AuthenticationMethod6Code" on page 477

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).
ТОКР	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

10.1.7.5.12.9.2 VerificationEntity < VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 477

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.

10.1.7.5.12.9.3 Result <Rslt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 517

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.

10.1.7.5.12.9.4 AdditionalResult <AddtlRslt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 524

10.1.7.5.12.10 PersonalData < PrsnIData >

Presence: [0..1]

Definition: Identifies personal data related to the cardholder.

Datatype: "Max70Text" on page 525

10.1.7.5.12.11 MobileData < MobData >

Presence: [0..*]

Definition: Data related to the mobile of stakeholder.

MobileData < MobData > contains the following MobileData4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MobileCountryCode < MobCtryCd>	[01]	Text		330
	MobileNetworkCode < MobNtwkCd>	[01]	Text		330
	MobileMaskedMSISDN < MobMskdMSISDN>	[01]	Text		331
	Geolocation < Glctn>	[01]			331
	GeographicCoordinates < GeogcCordints>	[01]			331
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < UTMEstwrd>	[11]	Text		332
	UTMNorthward < UTMNrthwrd>	[11]	Text		332
	SensitiveMobileData <snstvmobdata></snstvmobdata>	[01]			332
	MSISDN < MSISDN>	[11]	Text		333
	IMSI <imsi></imsi>	[01]	Text		333
	IMEI < <i>IMEI</i> >	[01]	Text		333
	ProtectedMobileData < PrtctdMobData >	[01]	±		333

10.1.7.5.12.11.1 MobileCountryCode < MobCtryCd>

Presence: [0..1]

Definition: Identifies the country of a mobile phone operator.

Datatype: "Min2Max3AlphaText" on page 526

10.1.7.5.12.11.2 MobileNetworkCode < MobNtwkCd>

Presence: [0..1]

Definition: Identifies the mobile phone operator inside a country.

Datatype: "Min2Max3NumericText" on page 526

10.1.7.5.12.11.3 MobileMaskedMSISDN < MobMskdMSISDN>

Presence: [0..1]

Definition: Masked Mobile Subscriber Integrated Service Digital Network.

Datatype: "Max35Text" on page 523

10.1.7.5.12.11.4 Geolocation <Glctn>

Presence: [0..1]

Definition: Geographic location specified by geographic or UTM coordinates.

Geolocation <Glctn> contains the following Geolocation1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	GeographicCoordinates < GeogcCordints >	[01]			331
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331
	UTMCoordinates < UTMCordints>	[01]			332
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		332

10.1.7.5.12.11.4.1 GeographicCoordinates < GeogcCordints>

Presence: [0..1]

Definition: Geographic location specified by geographic coordinates.

GeographicCoordinates < GeogcCordints > contains the following

GeolocationGeographicCoordinates1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Latitude <lat></lat>	[11]	Text		331
	Longitude <long></long>	[11]	Text		331

10.1.7.5.12.11.4.1.1 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 523

10.1.7.5.12.11.4.1.2 Longitude <Long>

Presence: [1..1]

Definition: Angular measurement of the distance of a location on the earth east or west of the Greenwich observatory.

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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 523

10.1.7.5.12.11.4.2 UTMCoordinates <UTMCordints>

Presence: [0..1]

Definition: Geographic location specified by UTM coordinates.

UTMCoordinates <UTMCordints> contains the following GeolocationUTMCoordinates1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	UTMZone < UTMZone>	[11]	Text		332
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		332
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		332

10.1.7.5.12.11.4.2.1 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 523

10.1.7.5.12.11.4.2.2 UTMEastward <UTMEstwrd>

Presence: [1..1]

Definition: X-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 523

10.1.7.5.12.11.4.2.3 UTMNorthward <UTMNrthwrd>

Presence: [1..1]

Definition: Y-coordinate of the Universal Transverse Mercator

coordinate system.

Datatype: "Max35Text" on page 523

10.1.7.5.12.11.5 SensitiveMobileData <SnstvMobData>

Presence: [0..1]

Definition: Sensitive information related to the mobile phone.

SensitiveMobileData <SnstvMobData> contains the following SensitiveMobileData1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MSISDN < MSISDN>	[11]	Text		333
	IMSI <imsi></imsi>	[01]	Text		333
	IMEI <imei></imei>	[01]	Text		333

10.1.7.5.12.11.5.1 MSISDN < MSISDN>

Presence: [1..1]

Definition: identifies the mobile - Mobile Subscriber Integrated Service Digital Network (The SIM

identifier).

Datatype: "Max35NumericText" on page 523

10.1.7.5.12.11.5.2 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 523

10.1.7.5.12.11.5.3 IMEI <IMEI>

Presence: [0..1]

Definition: International Mobile Equipment Identity is a number usually unique to identify a mobile

phone.

Datatype: "Max35NumericText" on page 523

10.1.7.5.12.11.6 ProtectedMobileData < PrtctdMobData >

Presence: [0..1]

Definition: Sensitive information related to the mobile phone, protected by CMS.

ProtectedMobileData < PrtctdMobData > contains the following elements (see

"ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		428
	EnvelopedData < EnvlpdData>	[11]	±		429

10.1.7.5.13 ProtectedCardholderData < PrtctdCrdhldrData >

Presence: [0..1]

Definition: Replacement of the message element Cardholder by a digital envelope using a cryptographic key.

ProtectedCardholderData <PrtctdCrdhldrData> contains the following elements (see "ContentInformationType32" on page 428 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		428
	EnvelopedData < EnvlpdData >	[11]	±		429

10.1.7.5.14 SaleEnvironment <SaleEnvt>

Presence: [0..1]

Definition: Sale Retailer Environment for this message.

SaleEnvironment <SaleEnvt> contains the following RetailerSaleEnvironment2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	SaleCapabilities <salecpblties></salecpblties>	[0*]	CodeSet		334
	Currency <ccy></ccy>	[01]	CodeSet	C1	335
	MinimumAmountToDeliver < MinAmtToDlvr>	[01]	Amount		335
	MaximumCashBackAmount < MaxCshBckAmt>	[01]	Amount		335
	MinimumSplitAmount < MinSpltAmt>	[01]	Amount		336
	DebitPreferredFlag < DbtPrefrdFlg>	[01]	Indicator		336
	LoyaltyHandling < <i>LltyHdlg</i> >	[01]	CodeSet		336

10.1.7.5.14.1 SaleCapabilities <SaleCpblties>

Presence: [0..*]

Definition: Capabilities of the Sale system.

Datatype: "SaleCapabilities1Code" on page 509

CodeName	Name	Definition
CHDI	CashierDisplay	Standard Cashier display interface (to ask question, or to show information).
		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.

10.1.7.5.14.2 Currency <Ccy>

Presence: [0..1]

Definition: Default currency associated with the sale system.

Impacted by: C1 "ActiveCurrency"

Datatype: "ActiveCurrencyCode" on page 468

Constraints

ActiveCurrency

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

10.1.7.5.14.3 MinimumAmountToDeliver < MinAmtToDlvr>

Presence: [0..1]

Definition: Minimum amount the Sale System is allowed to deliver for this payment.

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Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.7.5.14.4 MaximumCashBackAmount <MaxCshBckAmt>

Presence: [0..1]

Definition: Maximum amount which could be requested for cash-back.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.7.5.14.5 MinimumSplitAmount < MinSpltAmt>

Presence: [0..1]

Definition: Minimum amount to split a sale transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 465

10.1.7.5.14.6 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.5.14.7 LoyaltyHandling <LltyHdlg>

Presence: [0..1]

Definition: Way of Loyalty handling.

Datatype: "LoyaltyHandling1Code" on page 494

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.
to ask a loyalty card. If the		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.

10.1.7.6 CardPaymentContext29

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

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PaymentContext < PmtCntxt>	[01]			339
	CardPresent < CardPres>	[01]	Indicator		339
	CardholderPresent < CrdhldrPres>	[01]	Indicator		339
	OnLineContext < OnLineCntxt>	[01]	Indicator		340
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		340
	TransactionEnvironment <txenvt></txenvt>	[01]	CodeSet		340
	TransactionChannel < TxChanl>	[01]	CodeSet		340
	BusinessArea < BizArea>	[01]	CodeSet		341
	AttendantMessageCapable < AttndntMsgCpbl>	[01]	Indicator		341
	AttendantLanguage < AttndntLang>	[01]	CodeSet	C6	341
	CardDataEntryMode < CardDataNtryMd>	[01]	CodeSet		342
	FallbackIndicator < FllbckInd>	[01]	CodeSet		342
	SupportedOption <spprtdoptn></spprtdoptn>	[0*]	CodeSet		343
	SaleContext <salecntxt></salecntxt>	[01]			343
	SaleIdentification <saleid></saleid>	[01]	Text		344
	SaleReferenceNumber <salerefnb></salerefnb>	[01]	Text		344
	SaleReconciliationIdentification <salercncltnid></salercncltnid>	[01]	Text		345
	CashierIdentification < CshrId>	[01]	Text		345
	CashierLanguage < CshrLang>	[0*]	CodeSet	C6	345
	ShiftNumber <shftnb></shftnb>	[01]	Text		345
	CustomerOrderRequestFlag < CstmrOrdrReqFlg>	[01]	Indicator		345
	PurchaseOrderNumber < PurchsOrdrNb>	[01]	Text		345
	InvoiceNumber < InvcNb>	[01]	Text		345
	DeliveryNoteNumber < DlvryNoteNb>	[01]	Text		346
	SponsoredMerchant <spnsrdmrchnt></spnsrdmrchnt>	[0*]			346
	CommonName < CmonNm>	[11]	Text		346
	Address < Adr>	[01]	Text		346
	CountryCode < CtryCd>	[11]	CodeSet		346
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		346
	RegisteredIdentifier < RegdIdr>	[11]	Text		346
	SplitPayment <spltpmt></spltpmt>	[01]	Indicator		347

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RemainingAmount < RmngAmt>	[01]	Amount		347
	ForceOnlineFlag <forceonlnflg></forceonlnflg>	[01]	Indicator		347
	ReuseCardDataFlag <reusecarddataflg></reusecarddataflg>	[01]	Indicator		347
	AllowedEntryMode <allwdntrymd></allwdntrymd>	[0*]	CodeSet		347
	SaleTokenScope <saletknscp></saletknscp>	[01]	CodeSet		348
	AdditionalSaleData < AddtlSaleData >	[01]	Text		348
	DirectDebitContext < DrctDbtCntxt>	[01]			348
	DebtorIdentification < Dbtrld>	[01]			349
	Debtor < Dbtr>	[01]			350
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address < Adr>	[11]	±		351
	AccountIdentification < Acctld>	[01]			352
{Or	IBAN < <i>IBAN</i> >	[11]	IdentifierSet	C4	352
Or	BBAN < <i>BBAN</i> >	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount < DmstAcct>	[11]			353
	Identification <id></id>	[11]	Text		353
	CreditorIdentification < Cdtrld>	[11]			353
	Creditor < Cdtr>	[11]			354
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name <nm></nm>	[11]	Text		355
	Address <adr></adr>	[11]	±		355
	RegistrationIdentification < RegnId>	[01]	Text		355
	MandateRelatedInformation < MndtRltdInf>	[11]			355
	MandateIdentification < Mndtld>	[11]	Text		356
	DateOfSignature < DtOfSgntr>	[01]	Date		356

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	MandateImage < MndtImg >	[01]	Binary		356

10.1.7.6.1 PaymentContext < PmtCntxt>

Presence: [0..1]

Definition: Context of the card payment transaction.

PaymentContext < PmtCntxt> contains the following PaymentContext28 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	CardPresent < CardPres>	[01]	Indicator		339
	CardholderPresent < CrdhldrPres>	[01]	Indicator		339
	OnLineContext < OnLineCntxt>	[01]	Indicator		340
	AttendanceContext < AttndncCntxt>	[01]	CodeSet		340
	TransactionEnvironment <txenvt></txenvt>	[01]	CodeSet		340
	TransactionChannel < TxChanl>	[01]	CodeSet		340
	BusinessArea <bizarea></bizarea>	[01]	CodeSet		341
	AttendantMessageCapable < AttndntMsgCpbl>	[01]	Indicator		341
	AttendantLanguage < AttndntLang>	[01]	CodeSet	C6	341
	CardDataEntryMode < CardDataNtryMd>	[01]	CodeSet		342
	FallbackIndicator < FllbckInd>	[01]	CodeSet		342
	SupportedOption <spprtdoptn></spprtdoptn>	[0*]	CodeSet		343

10.1.7.6.1.1 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.1.2 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 519):

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• Meaning When True: True

• Meaning When False: False

10.1.7.6.1.3 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.1.4 AttendanceContext < AttndncCntxt>

Presence: [0..1]

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

Datatype: "AttendanceContext1Code" on page 476

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.

10.1.7.6.1.5 TransactionEnvironment <TxEnvt>

Presence: [0..1]

Definition: Indicates the environment of the transaction.

Datatype: "TransactionEnvironment1Code" on page 516

CodeName	Name	Definition
MERC	Merchant	Merchant environment.
PRIV	Private	Private environment.
PUBL	Public	Public environment.

10.1.7.6.1.6 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 516

CodeName	Name	Definition
MAIL	MailOrder	Mail order.
TLPH	TelephoneOrder	Telephone order.
ECOM	ElectronicCommerce	Electronic commerce.
TVPY	TelevisionPayment	Payment on television.

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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.

10.1.7.6.1.7 BusinessArea <BizArea>

Presence: [0..1]

Definition: Defines the business context of this transaction that could imply specific scheme rules.

Datatype: "BusinessArea1Code" on page 480

CodeName	Name	Definition
AIBD	ArtificialIntelligenceBasedDecision	The payment is initiated by an artificial intelligence based decision.
ОРМТ	Openpayment	The card is used in a Transit business case where the fare amount is not known when the transaction is initiated.
PPAY	PlainPayment	The card is used to perform a plain payment.
TKNF	TransitKnownFare	The card is used in a Transit business case where the fare amount is known when the transaction is initiated.

10.1.7.6.1.8 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.1.9 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 493

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.1.7.6.1.10 CardDataEntryMode <CardDataNtryMd>

Presence: [0..1]

Definition: Entry mode of the card data.

Datatype: "CardDataReading8Code" on page 482

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.)

10.1.7.6.1.11 FallbackIndicator <FIlbckInd>

Presence: [0..1]

Definition: Indicator of a card entry mode fallback.

Datatype: "CardFallback1Code" on page 483

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.

CodeName	Name	Definition
NFLB	NoFallback	No card fall-back during the transaction in progress.

10.1.7.6.1.12 SupportedOption <SpprtdOptn>

Presence: [0..*]

Definition: Payment options the card acceptor can support.

Datatype: "SupportedPaymentOption2Code" on page 512

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).
INSI	IssuerInstalment	The sender support IssuerInstalment proposals to the Cardholder.
PINQ	PINRequest	The sender is able to support Single Tap transaction.

10.1.7.6.2 SaleContext <SaleCntxt>

Presence: [0..1]

Definition: Context of the sale involving the card payment transaction.

SaleContext <SaleCntxt> contains the following SaleContext4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	SaleIdentification <saleid></saleid>	[01]	Text		344
	SaleReferenceNumber <salerefnb></salerefnb>	[01]	Text		344
	SaleReconciliationIdentification <salercncltnid></salercncltnid>	[01]	Text		345
	CashierIdentification < Cshrld>	[01]	Text		345
	CashierLanguage < CshrLang>	[0*]	CodeSet	C6	345
	ShiftNumber <shftnb></shftnb>	[01]	Text		345
	CustomerOrderRequestFlag < CstmrOrdrReqFlg>	[01]	Indicator		345
	PurchaseOrderNumber < PurchsOrdrNb>	[01]	Text		345
	InvoiceNumber <invcnb></invcnb>	[01]	Text		345
	DeliveryNoteNumber < DIvryNoteNb>	[01]	Text		346
	SponsoredMerchant < SpnsrdMrchnt>	[0*]			346
	CommonName < CmonNm>	[11]	Text		346
	Address <adr></adr>	[01]	Text		346
	CountryCode <ctrycd></ctrycd>	[11]	CodeSet		346
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		346
	RegisteredIdentifier < RegdIdr>	[11]	Text		346
	SplitPayment <spltpmt></spltpmt>	[01]	Indicator		347
	RemainingAmount < RmngAmt>	[01]	Amount		347
	ForceOnlineFlag <forceonlnflg></forceonlnflg>	[01]	Indicator		347
	ReuseCardDataFlag <reusecarddataflg></reusecarddataflg>	[01]	Indicator		347
	AllowedEntryMode < AllwdNtryMd>	[0*]	CodeSet		347
	SaleTokenScope <saletknscp></saletknscp>	[01]	CodeSet		348
	AdditionalSaleData < AddtlSaleData >	[01]	Text		348

10.1.7.6.2.1 SaleIdentification <SaleId>

Presence: [0..1]

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

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system.

Datatype: "Max35Text" on page 523

10.1.7.6.2.2 SaleReferenceNumber <SaleRefNb>

Presence: [0..1]

Definition: Identify a sale transaction assigned by the sale system.

Datatype: "Max35Text" on page 523

10.1.7.6.2.3 SaleReconciliationIdentification <SaleRcncltnId>

Presence: [0..1]

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

Datatype: "Max35Text" on page 523

10.1.7.6.2.4 CashierIdentification <Cshrld>

Presence: [0..1]

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

Datatype: "Max35Text" on page 523

10.1.7.6.2.5 CashierLanguage < CshrLang>

Presence: [0..*]

Definition: Languages used by the cashier.

Impacted by: C6 "ValidationByTable"

Datatype: "LanguageCode" on page 493

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.1.7.6.2.6 ShiftNumber <ShftNb>

Presence: [0..1]

Definition: Identifies the shift of the cashier. Datatype: "Max2NumericText" on page 523

10.1.7.6.2.7 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 519):

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· Meaning When True: True

· Meaning When False: False

10.1.7.6.2.8 PurchaseOrderNumber < PurchsOrdrNb>

Presence: [0..1]

Definition: Identification of the purchase order.

Datatype: "Max35Text" on page 523

10.1.7.6.2.9 InvoiceNumber <InvcNb>

Presence: [0..1]

Definition: Identification of the invoice.

Datatype: "Max35Text" on page 523

10.1.7.6.2.10 DeliveryNoteNumber <DlvryNoteNb>

Presence: [0..1]

Definition: Identification allocated by the sale system and given to the customer.

Datatype: "Max35Text" on page 523

10.1.7.6.2.11 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=""></xml>	Mult.	Туре	Constr. No.	Page
	CommonName < CmonNm>	[11]	Text		346
	Address < Adr >	[01]	Text		346
	CountryCode < CtryCd>	[11]	CodeSet		346
	MerchantCategoryCode < MrchntCtgyCd>	[11]	Text		346
	RegisteredIdentifier < RegdIdr>	[11]	Text		346

10.1.7.6.2.11.1 CommonName < CmonNm>

Presence: [1..1]

Definition: Name of the merchant.

Datatype: "Max70Text" on page 525

10.1.7.6.2.11.2 Address <Adr>

Presence: [0..1]

Definition: Location of the merchant.

Datatype: "Max140Text" on page 522

10.1.7.6.2.11.3 CountryCode < CtryCd>

Presence: [1..1]

Definition: Country of the merchant.

Datatype: "ISO3NumericCountryCode" on page 492

10.1.7.6.2.11.4 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 526

10.1.7.6.2.11.5 RegisteredIdentifier < RegdIdr>

Presence: [1..1]

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

Datatype: "Max35Text" on page 523

10.1.7.6.2.12 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.2.13 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 465

10.1.7.6.2.14 ForceOnlineFlag <ForceOnInFlg>

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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.2.15 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.6.2.16 AllowedEntryMode <AllwdNtryMd>

Presence: [0..*]

Definition: Type of card data reading.

Datatype: "CardDataReading8Code" on page 482

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.

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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.)

10.1.7.6.2.17 SaleTokenScope <SaleTknScp>

Presence: [0..1]

Definition: Scope of the token that identifies the payment mean of the customer.

Datatype: "SaleTokenScope1Code" on page 511

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.

10.1.7.6.2.18 AdditionalSaleData < AddtlSaleData >

Presence: [0..1]

Definition: Additional information associated with the sale transaction.

Datatype: "Max70Text" on page 525

10.1.7.6.3 DirectDebitContext < DrctDbtCntxt>

Presence: [0..1]

Definition: Context of the direct debit transaction.

DirectDebitContext < DrctDbtCntxt> contains the following CardDirectDebit2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	DebtorIdentification < Dbtrld>	[01]			349
	Debtor <dbtr></dbtr>	[01]			350
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address <adr></adr>	[11]	±		351
	AccountIdentification < AcctId>	[01]			352
{Or	IBAN < <i>IBAN</i> >	[11]	IdentifierSet	C4	352
Or	BBAN < <i>BBAN</i> >	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount < DmstAcct>	[11]			353
	Identification <id></id>	[11]	Text		353
	CreditorIdentification < Cdtrld>	[11]			353
	Creditor <cdtr></cdtr>	[11]			354
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name <nm></nm>	[11]	Text		355
	Address <adr></adr>	[11]	±		355
	RegistrationIdentification < Regnld>	[01]	Text		355
	MandateRelatedInformation < MndtRltdInf>	[11]			355
	MandateIdentification < Mndtld>	[11]	Text		356
	DateOfSignature < DtOfSgntr>	[01]	Date		356
	MandateImage < MndtImg>	[01]	Binary		356

10.1.7.6.3.1 DebtorIdentification < Dbtrld>

Presence: [0..1]

Definition: Information related to the debtor.

DebtorIdentification < DbtrId> contains the following Debtor4 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Debtor < Dbtr>	[01]			350
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address <adr></adr>	[11]	±		351
	AccountIdentification < Acctld>	[01]			352
{Or	IBAN < <i>IBAN</i> >	[11]	IdentifierSet	C4	352
Or	BBAN < <i>BBAN</i> >	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount <dmstacct></dmstacct>	[11]			353
	Identification	[11]	Text		353

10.1.7.6.3.1.1 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 Partyldentification178Choice elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	350
Or	ProprietaryIdentification < PrtryId>	[11]	±		351
Or}	NameAndAddress < NmAndAdr>	[11]			351
	Name <nm></nm>	[11]	Text		351
	Address < Adr>	[11]	±		351

10.1.7.6.3.1.1.1 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 518

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.

10.1.7.6.3.1.1.2 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 <u>"GenericIdentification36" on page 260</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		260
	Issuer	[11]	Text		260
	SchemeName <schmenm></schmenm>	[01]	Text		260

10.1.7.6.3.1.1.3 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< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[11]	Text		351
	Address < Adr>	[11]	±		351

10.1.7.6.3.1.1.3.1 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 525

10.1.7.6.3.1.1.3.2 Address <Adr>

Presence: [1..1]

Definition: Information that locates and identifies a specific address, as defined by postal services.

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Address <Adr> contains the following elements (see "PostalAddress2" on page 458 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StreetName <strtnm></strtnm>	[01]	Text		458
	PostCodeIdentification < PstCdId>	[11]	Text		458
	TownName < TwnNm>	[11]	Text		458
	CountrySubDivision < CtrySubDvsn>	[01]	Text		458
	Country < Ctry>	[11]	CodeSet	C3	458

10.1.7.6.3.1.2 AccountIdentification <Acctld>

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< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
{Or	IBAN	[11]	IdentifierSet	C4	352
Or	BBAN <bban></bban>	[11]	IdentifierSet		352
Or	UPIC <upic></upic>	[11]	IdentifierSet		353
Or}	DomesticAccount <dmstacct></dmstacct>	[11]			353
	Identification <id></id>	[11]	Text		353

10.1.7.6.3.1.2.1 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 518

Constraints

IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

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10.1.7.6.3.1.2.2 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 518

10.1.7.6.3.1.2.3 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 519

10.1.7.6.3.1.2.4 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=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		353

10.1.7.6.3.1.2.4.1 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 523

10.1.7.6.3.2 CreditorIdentification < Cdtrld>

Presence: [1..1]

Definition: Information related to the creditor.

CreditorIdentification <CdtrId> contains the following Creditor4 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Creditor < Cdtr>	[11]			354
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name <nm></nm>	[11]	Text		355
	Address < Adr >	[11]	±		355
	RegistrationIdentification < RegnId>	[01]	Text		355

10.1.7.6.3.2.1 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 Partyldentification178Choice elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
{Or	AnyBIC < <i>AnyBIC</i> >	[11]	IdentifierSet	C2	354
Or	ProprietaryIdentification < PrtryId>	[11]	±		354
Or}	NameAndAddress < NmAndAdr>	[11]			354
	Name < <i>Nm</i> >	[11]	Text		355
	Address < Adr >	[11]	±		355

10.1.7.6.3.2.1.1 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 518

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.

10.1.7.6.3.2.1.2 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 <u>"GenericIdentification36" on page 260 for details)</u>

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		260
	Issuer	[11]	Text		260
	SchemeName <schmenm></schmenm>	[01]	Text		260

10.1.7.6.3.2.1.3 NameAndAddress <NmAndAdr>

Presence: [1..1]

Definition: Name by which a party is known and which is usually used to identify that party.

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NameAndAddress < NmAndAdr> contains the following NameAndAddress6 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[11]	Text		355
	Address < Adr>	[11]	±		355

10.1.7.6.3.2.1.3.1 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 525

10.1.7.6.3.2.1.3.2 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 458 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StreetName <strtnm></strtnm>	[01]	Text		458
	PostCodeIdentification < PstCdId>	[11]	Text		458
	TownName < TwnNm>	[11]	Text		458
	CountrySubDivision < CtrySubDvsn>	[01]	Text		458
	Country < Ctry>	[11]	CodeSet	C3	458

10.1.7.6.3.2.2 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 523

10.1.7.6.3.3 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< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MandateIdentification < Mndtld>	[11]	Text		356
	DateOfSignature < DtOfSgntr>	[01]	Date		356
	MandateImage < MndtImg>	[01]	Binary		356

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10.1.7.6.3.3.1 MandateIdentification < Mndtld>

Presence: [1..1]

Definition: Unique identification, as assigned by the creditor, to unambiguously identify the mandate.

Datatype: "Max35Text" on page 523

10.1.7.6.3.3.2 DateOfSignature < DtOfSgntr>

Presence: [0..1]

Definition: Date on which the direct debit mandate has been signed by the debtor.

Datatype: "ISODate" on page 517

10.1.7.6.3.3.3 MandateImage < MndtImg>

Presence: [0..1]

Definition: Image of scanned signed mandate.

Datatype: "Max2MBBinary" on page 466

10.1.7.7 ActionMessage9

Definition: Information to display, print or store.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MessageDestination < MsgDstn>	[11]	CodeSet		356
	InformationQualifier < InfQlfr>	[01]	CodeSet		357
	Format < Frmt>	[01]	CodeSet		358
	MessageContent < MsgCntt>	[01]	Text		358
	MessageContentSignature < MsgCnttSgntr>	[01]	±		358
	OutputBarcode < OutptBrcd>	[01]			358
	BarcodeType < BrcdTp>	[11]	CodeSet		359
	BarcodeValue < BrcdVal>	[01]	Text		359
	QRCodeBinaryValue < QRCdBinryVal>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360
	ResponseRequiredFlag <rspnreqrdflg></rspnreqrdflg>	[01]	Indicator		360
	MinimumDisplayTime < MinDispTm>	[01]	Quantity		360

10.1.7.7.1 MessageDestination < MsgDstn>

Presence: [1..1]

Definition: Destination of the message.

Datatype: "UserInterface4Code" on page 517

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.

10.1.7.7.2 InformationQualifier <InfQlfr>

Presence: [0..1]

Definition: Qualification of the information to sent to an output logical device.

Datatype: "InformationQualify1Code" on page 491

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.

10.1.7.7.3 Format <Frmt>

Presence: [0..1]

Definition: Message format.

Datatype: "OutputFormat3Code" on page 498

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.

10.1.7.7.4 MessageContent < MsgCntt>

Presence: [0..1]

Definition: Content or reference of the message.

Datatype: "Max20000Text" on page 522

10.1.7.7.5 MessageContentSignature < MsgCnttSgntr>

Presence: [0..1]

Definition: Digital signature of the message.

MessageContentSignature < MsgCnttSgntr> contains the following elements (see

"ContentInformationType29" on page 435 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData>	[01]	±		436

10.1.7.7.6 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=""></xml>	Mult.	Туре	Constr. No.	Page
	BarcodeType < <i>BrcdTp</i> >	[11]	CodeSet		359
	BarcodeValue < BrcdVal>	[01]	Text		359
	QRCodeBinaryValue < QRCdBinryVal>	[01]	Binary		359
	QRCodeVersion < QRCdVrsn>	[01]	Text		360
	QRCodeEncodingMode < QRCdNcodgMd>	[11]	CodeSet		360
	QRCodeErrorCorrection < QRCdErrCrrctn>	[01]	CodeSet		360

10.1.7.7.6.1 BarcodeType <BrcdTp>

Presence: [1..1]

Definition: Type of Barcode coding.

Datatype: "BarcodeType1Code" on page 480

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.

10.1.7.7.6.2 BarcodeValue < BrcdVal>

Presence: [0..1]

Definition: Value with a Barcode coding.

Datatype: "Max8000Text" on page 525

10.1.7.7.6.3 QRCodeBinaryValue <QRCdBinryVal>

Presence: [0..1]

Definition: Use for binary and Kanji Quick Respone Code.

Datatype: "Max3000Binary" on page 466

10.1.7.7.6.4 QRCodeVersion < QRCdVrsn>

Presence: [0..1]

Definition: Version of the Quick Response Code.

Datatype: "Max16Text" on page 522

10.1.7.7.6.5 QRCodeEncodingMode <QRCdNcodgMd>

Presence: [1..1]

Definition: Encoding Mode of Quick Response Code.

Datatype: "QRCodeEncodingMode1Code" on page 504

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.

10.1.7.7.6.6 QRCodeErrorCorrection < QRCdErrCrrctn>

Presence: [0..1]

Definition: Error Correction mode of Quick Response Code.

Datatype: "QRCodeErrorCorrection1Code" on page 504

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%

10.1.7.7.7 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 519):

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· Meaning When True: True

· Meaning When False: False

10.1.7.7.8 MinimumDisplayTime <MinDispTm>

Presence: [0..1]

Definition: Number of seconds the message has to be displayed.

Datatype: "Number" on page 519

10.1.7.8 PointOfInteractionComponent12

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

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Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type <tp></tp>	[11]	CodeSet		363
	SubTypeInformation <subtpinf></subtpinf>	[01]	Text		364
	Identification <id></id>	[11]			365
	ItemNumber < ItmNb>	[01]	Text		365
	ProviderIdentification < Prvdrld>	[01]	Text		365
	Identification <id></id>	[01]	Text		365
	SerialNumber < <i>SrlNb</i> >	[01]	Text		365
	Status <sts></sts>	[01]			365
	VersionNumber < VrsnNb>	[01]	Text		366
	Status <sts></sts>	[01]	CodeSet		366
	ExpiryDate <xprydt></xprydt>	[01]	Date		366
	StandardCompliance < StdCmplc>	[0*]			366
	Identification <id></id>	[11]	Text		366
	Version < Vrsn>	[11]	Text		367
	Issuer	[11]	Text		367
	Characteristics < Chrtcs>	[01]			367
	Memory < <i>Mmry</i> >	[0*]			368
	Identification <id></id>	[11]	Text		369
	TotalSize < TtlSz>	[11]	Quantity		369
	FreeSize <freesz></freesz>	[11]	Quantity		369
	Unit < <i>Unit</i> >	[11]	CodeSet		369
	Communication < Com>	[0*]			369
	CommunicationType < ComTp>	[11]	CodeSet		370
	RemoteParty < RmotPty>	[1*]	CodeSet		371
	Active < <i>Actv</i> >	[11]	Indicator		371
	Parameters < <i>Params</i> >	[01]	±		371
	PhysicalInterface < PhysIntrfc>	[01]			372
	InterfaceName < IntrfcNm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < UsrNm>	[01]	Text		373
	AccessCode < AccsCd>	[01]	Binary		373

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373
	SecurityAccessModules <sctyaccsmdls></sctyaccsmdls>	[01]	Quantity		374
	SubscriberIdentityModules <sbcbrldntymdls></sbcbrldntymdls>	[01]	Quantity		374
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		374
	Assessment <assmnt></assmnt>	[0*]			374
	Type < <i>Tp</i> >	[11]	CodeSet		375
	Assigner <assgnr></assgnr>	[1*]	Text		375
	DeliveryDate < <i>DlvryDt</i> >	[01]	DateTime		375
	ExpirationDate <xprtndt></xprtndt>	[01]	DateTime		375
	Number <nb></nb>	[11]	Text		375
	Package < <i>Packg</i> >	[0*]			376
	PackageIdentification < PackgId>	[01]	±		376
	PackageLength < PackgLngth>	[01]	Quantity		376
	OffsetStart < OffsetStart>	[01]	Quantity		376
	OffsetEnd < OffsetEnd>	[01]	Quantity		377
	PackageBlock < PackgBlck>	[0*]			377
	Identification	[11]	Text		377
	Value < <i>Val</i> >	[01]	Binary		377
	ProtectedValue < PrtctdVal>	[01]	±		377
	Type < <i>Tp</i> >	[01]	Text		378

10.1.7.8.1 Type <Tp>

Presence: [1..1]

Definition: Type of component belonging to a POI (Point Of Interaction) Terminal.

Datatype: "POIComponentType6Code" on page 503

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. EMVX EMV EMVERNE 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 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 TMS protocol parameters CRTF CertificateParameters Certificate provided by a terminal manager. TMSP TMSProtocolParameters Configuration parameters for the TMS protocol.	CodeName	Name	Definition
TERM Terminal Payment terminal point of interaction. DVCE Device Device Device 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 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 MediaFile Interaction of the POI. Configuration File relevant for the POI.	SCPR	SecurityParameters	
Device Device Device 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 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. CONF Configuration File Configuration file relevant for the POI.	SERV	Server	
SECM SecureModule Security module. APLI PaymentApplication Payment application software. EMVK EMVKernel 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 Driver Merchant Parameters Merchant configuration parameters for the point of interaction. OPST Certificate Parameters 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. MECHANT Configuration parameter application of the POI. SOFT Soft Payment or other software application. Configuration file relevant for the POI.	TERM	Terminal	Payment terminal point of interaction.
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 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. Configuration file relevant for the POI.	DVCE	Device	
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 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 Configuration File	SECM	SecureModule	Security module.
EMVO EMVLevel1 EMV physical interface (EMV is the chip card specifications initially defined by Eurocard, Mastercard and Visa). 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 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 Configuration file relevant for the POI.	APLI	PaymentApplication	Payment application software.
card specifications initially defined by Eurocard, Mastercard and Visa). MDWR Middleware Software module of the point of interaction. DRVR Driver 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 Configuration file relevant for the POI.	EMVK	EMVKernel	card specifications initially defined by
DRVR Driver 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.	EMVO	EMVLevel1	card specifications initially defined by
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 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.	MDWR	Middleware	
more 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.	DRVR	Driver	Driver module of the point of interaction.
the point of interaction (POI). CRTF Certificate Parameters 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 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.	OPST	OperatingSystem	provide common services to the
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.	MRPR	MerchantParameters	
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.	CRTF	CertificateParameters	
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.	TMSP	TMSProtocolParameters	
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.	SACP	SaleComponent	Component of the Sale system.
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.	SAPR	SaleToPOIProtocolParameters	
the POI. SOFT Soft Payment or other software application. CONF ConfigurationFile Configuration file relevant for the POI.	LOGF	LogFile	
CONF ConfigurationFile Configuration file relevant for the POI.	MDFL	MediaFile	
	SOFT	Soft	Payment or other software application.
RPFL ReportFile Report file generated by the POI.	CONF	ConfigurationFile	Configuration file relevant for the POI.
	RPFL	ReportFile	Report file generated by the POI.

10.1.7.8.2 SubTypeInformation <SubTpInf>

Presence: [0..1]

Definition: Additional information regarding the type of the component.

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Datatype: "Max70Text" on page 525

10.1.7.8.3 Identification <Id>

Presence: [1..1]

Definition: Identification of the POI (Point Of Interaction) component.

Identification <Id> contains the following PointOfInteractionComponentIdentification2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ItemNumber <itmnb></itmnb>	[01]	Text		365
	ProviderIdentification < PrvdrId>	[01]	Text		365
	Identification	[01]	Text		365
	SerialNumber < <i>SrlNb</i> >	[01]	Text		365

10.1.7.8.3.1 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 523

10.1.7.8.3.2 ProviderIdentification < Prvdrld>

Presence: [0..1]

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

Datatype: "Max35Text" on page 523

10.1.7.8.3.3 Identification <Id>

Presence: [0..1]

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

Datatype: "Max256Text" on page 522

10.1.7.8.3.4 SerialNumber <SrINb>

Presence: [0..1]

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

Datatype: "Max256Text" on page 522

10.1.7.8.4 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=""></xml>	Mult.	Туре	Constr. No.	Page
	VersionNumber < VrsnNb>	[01]	Text		366
	Status < <i>Sts</i> >	[01]	CodeSet		366
	ExpiryDate <xprydt></xprydt>	[01]	Date		366

10.1.7.8.4.1 VersionNumber < VrsnNb>

Presence: [0..1]

Definition: Current version of the component that might include the release number.

Datatype: "Max256Text" on page 522

10.1.7.8.4.2 Status <Sts>

Presence: [0..1]

Definition: Current status of the component.

Datatype: "POIComponentStatus1Code" on page 502

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.

10.1.7.8.4.3 ExpiryDate <XpryDt>

Presence: [0..1]

Definition: Expiration date of the component.

Datatype: "ISODate" on page 517

10.1.7.8.5 StandardCompliance <StdCmplc>

Presence: [0..*]

Definition: Identification of the standard for which the component complies with.

StandardCompliance <StdCmplc> contains the following GenericIdentification48 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		366
	Version < Vrsn>	[11]	Text		367
	Issuer	[11]	Text		367

10.1.7.8.5.1 Identification <Id>

Presence: [1..1]

Definition: Proprietary information, often a code, issued by the data source scheme issuer.

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Datatype: "Max35Text" on page 523

10.1.7.8.5.2 Version < Vrsn>

Presence: [1..1]

Definition: Version of the identification.

Datatype: "Max35Text" on page 523

10.1.7.8.5.3 Issuer < lssr>

Presence: [1..1]

Definition: Entity that assigns the identification.

Datatype: "Max35Text" on page 523

10.1.7.8.6 Characteristics < Chrtcs>

Presence: [0..1]

Definition: Characteristics of a POI (Point Of Interaction) component.

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Characteristics < Chrtcs > contains the following PointOfInteractionComponentCharacteristics8 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Memory < Mmry>	[0*]			368
	Identification	[11]	Text		369
	TotalSize < TtlSz>	[11]	Quantity		369
	FreeSize <freesz></freesz>	[11]	Quantity		369
	Unit < <i>Unit</i> >	[11]	CodeSet		369
	Communication < Com>	[0*]			369
	CommunicationType < ComTp>	[11]	CodeSet		370
	RemoteParty < RmotPty>	[1*]	CodeSet		371
	Active <actv></actv>	[11]	Indicator		371
	Parameters < Params>	[01]	±		371
	PhysicalInterface < PhysIntrfc>	[01]			372
	InterfaceName <intrfcnm></intrfcnm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < <i>UsrNm</i> >	[01]	Text		373
	AccessCode <accscd></accscd>	[01]	Binary		373
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373
	SecurityAccessModules <sctyaccsmdls></sctyaccsmdls>	[01]	Quantity		374
	SubscriberIdentityModules <sbcbrldntymdls></sbcbrldntymdls>	[01]	Quantity		374
	SecurityElement <sctyelmt></sctyelmt>	[0*]	±		374

10.1.7.8.6.1 Memory < Mmry>

Presence: [0..*]

Definition: Memory characteristics of the component.

Memory < Mmry> contains the following MemoryCharacteristics1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		369
	TotalSize < Tt/Sz>	[11]	Quantity		369
	FreeSize <freesz></freesz>	[11]	Quantity		369
	Unit < <i>Unit</i> >	[11]	CodeSet		369

10.1.7.8.6.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification or name of the memory.

Datatype: "Max35Text" on page 523

10.1.7.8.6.1.2 TotalSize <TtlSz>

Presence: [1..1]

Definition: Total size of the memory unit.

Datatype: "DecimalNumber" on page 519

10.1.7.8.6.1.3 FreeSize <FreeSz>

Presence: [1..1]

Definition: Total size of the available memory.

Datatype: "DecimalNumber" on page 519

10.1.7.8.6.1.4 Unit <Unit>

Presence: [1..1]

Definition: Memory unit of the sizes.

Datatype: "MemoryUnit1Code" on page 495

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.

10.1.7.8.6.2 Communication <Com>

Presence: [0..*]

Definition: Low level communication of the hardware or software component toward another component or an external entity.

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Communication <Com> contains the following CommunicationCharacteristics5 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	CommunicationType < ComTp>	[11]	CodeSet		370
	RemoteParty < RmotPty>	[1*]	CodeSet		371
	Active <actv></actv>	[11]	Indicator		371
	Parameters < Params>	[01]	±		371
	PhysicalInterface < PhysIntrfc>	[01]			372
	InterfaceName <intrfcnm></intrfcnm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < <i>UsrNm</i> >	[01]	Text		373
	AccessCode <accscd></accscd>	[01]	Binary		373
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373

10.1.7.8.6.2.1 CommunicationType <ComTp>

Presence: [1..1]

Definition: Type of low level communication.

Datatype: "POICommunicationType2Code" on page 501

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.

10.1.7.8.6.2.2 RemoteParty <RmotPty>

Presence: [1..*]

Definition: Entity that communicate with the current component, using this communication device.

Datatype: "PartyType7Code" on page 500

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.

10.1.7.8.6.2.3 Active <Actv>

Presence: [1..1]

Definition: Communication hardware is activated.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

10.1.7.8.6.2.4 Parameters < Params>

Presence: [0..1]

Definition: Network parameters of the communication link.

Parameters <Params> contains the following elements (see "NetworkParameters7" on page 400 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Address < Adr >	[1*]			400
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate < CIntCert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.7.8.6.2.5 PhysicalInterface < PhysIntrfc>

Presence: [0..1]

Definition: Physical Interface used by the communication link.

PhysicalInterface < PhysIntrfc> contains the following PhysicalInterfaceParameter1 elements

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Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	InterfaceName <intrfcnm></intrfcnm>	[11]	Text		372
	InterfaceType <intrfctp></intrfctp>	[01]	CodeSet		372
	UserName < UsrNm>	[01]	Text		373
	AccessCode <accscd></accscd>	[01]	Binary		373
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		373
	AdditionalParameters < AddtlParams>	[01]	Binary		373

10.1.7.8.6.2.5.1 InterfaceName <IntrfcNm>

Presence: [1..1]

Definition: Identification of the interface.

Datatype: "Max35Text" on page 523

10.1.7.8.6.2.5.2 InterfaceType <IntrfcTp>

Presence: [0..1]

Definition: Identification of the physical link layer.

Datatype: "POICommunicationType2Code" on page 501

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 ar USB device.		
USBH	USBHost	Communication with a host from an U 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.		

10.1.7.8.6.2.5.3 UserName <UsrNm>

Presence: [0..1]

Definition: Optional user name to provide to use this interface.

Datatype: "Max35Text" on page 523

10.1.7.8.6.2.5.4 AccessCode <AccsCd>

Presence: [0..1]

Definition: Optional access code to provide to use this interface.

Datatype: "Max35Binary" on page 467

10.1.7.8.6.2.5.5 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the optional security profile to use with this interface.

Datatype: "Max35Text" on page 523

10.1.7.8.6.2.5.6 AdditionalParameters <AddtlParams>

Presence: [0..1]

Definition: Any other parameters relevant for this interface.

Datatype: "Max2KBinary" on page 466

10.1.7.8.6.3 SecurityAccessModules <SctyAccsMdls>

Presence: [0..1]

Definition: Number of security access modules (SAM).

Datatype: "Number" on page 519

10.1.7.8.6.4 SubscriberIdentityModules <SbcbrIdntyMdls>

Presence: [0..1]

Definition: Number of subscriber identity modules (SIM).

Datatype: "Number" on page 519

10.1.7.8.6.5 SecurityElement <SctyElmt>

Presence: [0..*]

Definition: Security characteristics of the component.

SecurityElement <SctyElmt> contains the following elements (see <u>"CryptographicKey16" on page 437</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		438
	AdditionalIdentification < Addtlld>	[01]	Binary		438
	Name <nm></nm>	[01]	Text		438
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		439
	ItemNumber	[01]	Text		439
	Version < Vrsn>	[11]	Text		439
	Type <tp></tp>	[01]	CodeSet		439
	Function <fctn></fctn>	[0*]	CodeSet		440
	ActivationDate <actvtndt></actvtndt>	[01]	DateTime		440
	DeactivationDate < DeactvtnDt>	[01]	DateTime		440
	KeyValue <keyval></keyval>	[01]	±		441
	KeyCheckValue < KeyChckVal>	[01]	Binary		441
	AdditionalManagementInformation <addtlmgmtinf></addtlmgmtinf>	[0*]			441
	Name < <i>Nm</i> >	[11]	Text		441
	Value < <i>Val</i> >	[01]	Text		441

10.1.7.8.7 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=""></xml>	Mult.	Туре	Constr. No.	Page
	Type < <i>Tp</i> >	[11]	CodeSet		375
	Assigner < Assgnr>	[1*]	Text		375
	DeliveryDate <dlvrydt></dlvrydt>	[01]	DateTime		375
	ExpirationDate <xprtndt></xprtndt>	[01]	DateTime		375
	Number <nb></nb>	[11]	Text		375

10.1.7.8.7.1 Type <Tp>

Presence: [1..1]

Definition: Type of assessment of the component.

Datatype: "POIComponentAssessment1Code" on page 502

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.

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10.1.7.8.7.2 Assigner <Assgnr>

Presence: [1..*]

Definition: Body which has delivered the assessment.

Datatype: "Max35Text" on page 523

10.1.7.8.7.3 DeliveryDate <DIvryDt>

Presence: [0..1]

Definition: Date when the assessment has been delivered.

Datatype: "ISODateTime" on page 517

10.1.7.8.7.4 ExpirationDate <XprtnDt>

Presence: [0..1]

Definition: Date when the assessment will expire.

Datatype: "ISODateTime" on page 517

10.1.7.8.7.5 Number <Nb>

Presence: [1..1]

Definition: Unique assessment number for the component.

Datatype: "Max35Text" on page 523

10.1.7.8.8 Package < Packg >

Presence: [0..*]

Definition: Chunk of a software package.

Package < Packg > contains the following Package Type 3 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PackageIdentification < PackgId>	[01]	±		376
	PackageLength < PackgLngth>	[01]	Quantity		376
	OffsetStart < OffsetStart>	[01]	Quantity		376
	OffsetEnd < OffsetEnd>	[01]	Quantity		377
	PackageBlock < PackgBlck>	[0*]			377
	Identification <id></id>	[11]	Text		377
	Value < <i>Val</i> >	[01]	Binary		377
	ProtectedValue < PrtctdVal>	[01]	±		377
	Type < <i>Tp</i> >	[01]	Text		378

10.1.7.8.8.1 PackageIdentification < Packgld>

Presence: [0..1]

Definition: Identification of the software packages of which the chunk belongs.

PackageIdentification <Packgld> contains the following elements (see <u>"GenericIdentification176" on page 258</u> for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		258
	Type < <i>Tp</i> >	[01]	CodeSet		258
	Issuer	[01]	CodeSet		259
	Country < Ctry>	[01]	Text		259
	ShortName <shrtnm></shrtnm>	[01]	Text		259

10.1.7.8.8.2 PackageLength < PackgLngth>

Presence: [0..1]

Definition: Full length of software package identified through PackageIdentification.

Datatype: "PositiveNumber" on page 520

10.1.7.8.8.3 OffsetStart < OffsetStart>

Presence: [0..1]

Definition: Place of the first following PackageBlock, beginning with 0, in the full software package identified through PackageIdentification.

Datatype: "PositiveNumber" on page 520

10.1.7.8.8.4 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 520

10.1.7.8.8.5 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 ExternallyDefinedData3 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		377
	Value < Val>	[01]	Binary		377
	ProtectedValue < PrtctdVal>	[01]	±		377
	Type < <i>Tp</i> >	[01]	Text		378

10.1.7.8.8.5.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the set of data to exchange.

Datatype: "Max1025Text" on page 521

10.1.7.8.8.5.2 Value <Val>

Presence: [0..1]

Definition: Data to exchange according to an external standard.

Datatype: "Max100KBinary" on page 465

10.1.7.8.8.5.3 ProtectedValue < PrtctdVal>

Presence: [0..1]

Definition: Protection of the values to exchange.

ProtectedValue <PrtctdVal> contains the following elements (see <u>"ContentInformationType30" on page 430</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData >	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

10.1.7.8.8.5.4 Type <Tp>

Presence: [0..1]

Definition: Identification of the standard used to encode the values to exchange.

Datatype: "Max1025Text" on page 521

10.1.7.9 ResponseType11

Definition: Response of a requested service.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Response < Rspn>	[11]	CodeSet		378
	ResponseReason <rspnrsn></rspnrsn>	[01]	CodeSet		379
	AdditionalResponseInformation < AddtlRspnInf>	[01]	Text		380

10.1.7.9.1 Response < Rspn>

Presence: [1..1]

Definition: Result of the requested transaction.

Datatype: "Response11Code" on page 506

CodeName	Name	Definition
WARN	Warning	An additional Response Code, mainly a functional one, should be considered to identify the outcome of the request.
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.
SUCC	Success	Processing OK. Information related to the result of the processing is contained in other parts of the response message.

10.1.7.9.2 ResponseReason <RspnRsn>

Presence: [0..1]

Definition: Detail of the response.

Datatype: "RetailerResultDetail1Code" on page 507

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 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

CodeName	Name	Definition
		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.

10.1.7.9.3 AdditionalResponseInformation <AddtlRspnInf>

Presence: [0..1]

Definition: Additional information to be logged for further examination.

Datatype: "Max140Text" on page 522

10.1.7.10 CustomerDevice3

Definition: Device used by the customer to perform the payment.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[01]	Text		380
	Type < <i>Tp</i> >	[01]	Text		380
	Provider < <i>Prvdr</i> >	[01]	Text		380

10.1.7.10.1 Identification <Id>

Presence: [0..1]

Definition: Identifier of the component.

Datatype: "Max35Text" on page 523

10.1.7.10.2 Type <Tp>

Presence: [0..1]

Definition: Type of component.

Datatype: "Max70Text" on page 525

10.1.7.10.3 Provider < Prvdr>

Presence: [0..1]

Definition: Provider of the component.

Datatype: "Max35Text" on page 523

10.1.7.11 MessageItemCondition1

Definition: Presence condition of a message item.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ItemIdentification < ItmId>	[11]	Text		381
	Condition < Cond>	[11]	CodeSet		381
	Value < Val>	[0*]	Text		381

10.1.7.11.1 ItemIdentification < ItmId>

Presence: [1..1]

Definition: Unique identification of the message and the message item.

Datatype: "Max140Text" on page 522

10.1.7.11.2 Condition <Cond>

Presence: [1..1]

Definition: Condition of presence of the message item.

Datatype: "MessageItemCondition1Code" on page 496

CodeName	Name	Definition
MNDT	Mandatory	Message item must be present.
CFVL	ConfiguredValue	Message item must be present with the configured value.
DFLT	DefaultValue	Message item has the configured value if the item is absent.
ALWV	AllowedValues	Message item must have one of the configured values.
IFAV	IfAvailable	Message item has to be present if available.
COPY	Сору	Message item is present if it was present in a previous related message with the same value.
UNSP	NotSupported	Message item is not supported and has to be absent.

10.1.7.11.3 Value <Val>

Presence: [0..*]

Definition: Value to be used for the message item.

Datatype: "Max140Text" on page 522

10.1.7.12 PointOfInteractionCapabilities9

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

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Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	CardReadingCapabilities < CardRdngCpblties>	[0*]	CodeSet		382
	CardholderVerificationCapabilities < CrdhldrVrfctnCpblties >	[0*]	CodeSet		383
	PINLengthCapabilities < PINLngthCpblties>	[01]	Quantity		383
	ApprovalCodeLength < ApprvlCdLngth>	[01]	Quantity		383
	MaxScriptLength < MxScrptLngth>	[01]	Quantity		384
	CardCaptureCapable < CardCaptrCpbl>	[01]	Indicator		384
	OnLineCapabilities < OnLineCpblties>	[01]	CodeSet		384
	MessageCapabilities < MsgCpblties>	[0*]			384
	Destination <i><dstn></dstn></i>	[1*]	CodeSet		384
	AvailableFormat < AvIblFrmt>	[0*]	CodeSet		385
	NumberOfLines < NbOfLines>	[01]	Quantity		385
	LineWidth <linewidth></linewidth>	[01]	Quantity		385
	AvailableLanguage < AvlblLang>	[0*]	CodeSet	C6	385

10.1.7.12.1 CardReadingCapabilities < CardRdngCpblties>

Presence: [0..*]

Definition: Card reading capabilities of the POI (Point Of Interaction) performing the transaction.

Datatype: "CardDataReading8Code" on page 482

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.)

10.1.7.12.2 CardholderVerificationCapabilities < CrdhldrVrfctnCpblties>

Presence: [0..*]

Definition: Cardholder verification capabilities of the POI (Point Of Interaction) performing the

transaction.

Datatype: "CardholderVerificationCapability4Code" on page 483

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.

10.1.7.12.3 PINLengthCapabilities <PINLngthCpblties>

Presence: [0..1]

Definition: Maximum number of digits the POI is able to accept when the cardholder enters its PIN.

Datatype: "PositiveNumber" on page 520

10.1.7.12.4 ApprovalCodeLength < ApprvlCdLngth>

Presence: [0..1]

Definition: Maximum number of characters of the approval code the POI is able to manage.

Datatype: "PositiveNumber" on page 520

10.1.7.12.5 MaxScriptLength < MxScrptLngth>

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 520

10.1.7.12.6 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.12.7 OnLineCapabilities < OnLineCpblties>

Presence: [0..1]

Definition: On-line and off-line capabilities of the POI (Point Of Interaction).

Datatype: "OnLineCapability1Code" on page 497

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.

10.1.7.12.8 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

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Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Destination <i><dstn></dstn></i>	[1*]	CodeSet		384
	AvailableFormat < AvIbIFrmt>	[0*]	CodeSet		385
	NumberOfLines < NbOfLines>	[01]	Quantity		385
	LineWidth <linewidth></linewidth>	[01]	Quantity		385
	AvailableLanguage < AvlblLang>	[0*]	CodeSet	C6	385

10.1.7.12.8.1 Destination < Dstn>

Presence: [1..*]

Definition: Destination of the message to present.

Datatype: "UserInterface4Code" on page 517

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.

10.1.7.12.8.2 AvailableFormat <AvIbIFrmt>

Presence: [0..*]

Definition: Available message format.

Datatype: "OutputFormat1Code" on page 497

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.

10.1.7.12.8.3 NumberOfLines < NbOfLines>

Presence: [0..1]

Definition: Number of lines of the display.

Datatype: "Number" on page 519

10.1.7.12.8.4 LineWidth <LineWidth>

Presence: [0..1]

Definition: Number of columns of the display or printer.

Datatype: "Number" on page 519

10.1.7.12.8.5 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 493

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.1.7.13 Vehicle1

Definition: Information related to a vehicle used during a transaction.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	VehicleNumber < VhclNb>	[01]	Text		386
	TrailerNumber < TrlrNb>	[01]	Text		387
	VehicleTag < <i>VhclTag</i> >	[01]	Text		387
	VehicleTagEntryMode < VhclTagNtryMd>	[01]	CodeSet		387
	UnitNumber < UnitNb>	[01]	Text		387
	ReplacementCar < RplcmntCar>	[01]	Indicator		387
	Odometer < Odmtr>	[01]	Quantity		388
	Hubometer <hbmtr></hbmtr>	[01]	Quantity		388
	TrailerHours < TrlrHrs>	[01]	Text		388
	ReferHours < RefrHrs>	[01]	Text		388
	MaintenanceIdentification < MntncId>	[01]	Text		388
	DriverOrVehicleCard < DrvrOrVhclCard>	[01]			388
	PAN < <i>PAN</i> >	[01]	Text		389
	Track1 < Trck1>	[01]	Text		389
	Track2 < Trck2>	[01]	Text		389
	Track3 < Trck3>	[01]	Text		389
	AdditionalCardData < AddtlCardData >	[0*]	Text		389
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		389
	AdditionalVehicleData < AddtlVhclData>	[0*]			390
	Type <tp></tp>	[01]	Text		390
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		390
	Data < Data >	[11]	Text		391

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10.1.7.13.1 VehicleNumber < VhcINb>

Presence: [0..1]

Definition: Number assigned to the vehicle for identification.

Datatype: "Max35NumericText" on page 523

10.1.7.13.2 TrailerNumber <TrlrNb>

Presence: [0..1]

Definition: Number assigned to the vehicle trailer for identification.

Datatype: "Max35NumericText" on page 523

10.1.7.13.3 VehicleTag < VhclTag>

Presence: [0..1]

Definition: Registration tag of the vehicle.

Datatype: "Max35Text" on page 523

10.1.7.13.4 VehicleTagEntryMode < VhclTagNtryMd>

Presence: [0..1]

Definition: Entry mode of the registration tag.

Datatype: "CardDataReading5Code" on page 482

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.

10.1.7.13.5 UnitNumber <UnitNb>

Presence: [0..1]

Definition: Identification of the vehicle in the fleet.

Datatype: "Max35NumericText" on page 523

10.1.7.13.6 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 519):

· Meaning When True: True

· Meaning When False: False

10.1.7.13.7 Odometer < Odmtr>

Presence: [0..1]

Definition: Odometer reading value indicating the distance travelled by the vehicle.

Datatype: "DecimalNumber" on page 519

10.1.7.13.8 Hubometer <Hbmtr>

Presence: [0..1]

Definition: Hubometer reading value indicating the distance travelled by the trailer.

Datatype: "DecimalNumber" on page 519

10.1.7.13.9 TrailerHours <TrlrHrs>

Presence: [0..1]

Definition: Number of hours the trailer has been in operation.

Datatype: "Max35Text" on page 523

10.1.7.13.10 ReferHours <RefrHrs>

Presence: [0..1]

Definition: Number of hours the refer unit has been in operation.

Datatype: "Max35Text" on page 523

10.1.7.13.11 MaintenanceIdentification < MntncId>

Presence: [0..1]

Definition: Identification assigned to the vehicle related to maintenance.

Datatype: "Max35Text" on page 523

10.1.7.13.12 DriverOrVehicleCard < DrvrOrVhclCard>

Presence: [0..1]

Definition: Second card presented for the payment transaction.

DriverOrVehicleCard <DrvrOrVhclCard> contains the following PlainCardData17 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	PAN < <i>PAN</i> >	[01]	Text		389
	Track1 < Trck1>	[01]	Text		389
	Track2 < Trck2>	[01]	Text		389
	Track3 < Trck3>	[01]	Text		389
	AdditionalCardData < AddtlCardData >	[0*]	Text		389
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		389

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10.1.7.13.12.1 PAN <PAN>

Presence: [0..1]

Definition: Primary Account Number (PAN) of the card.

Datatype: "Min8Max28NumericText" on page 526

10.1.7.13.12.2 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 525

10.1.7.13.12.3 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 524

10.1.7.13.12.4 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 521

10.1.7.13.12.5 AdditionalCardData < AddtlCardData >

Presence: [0..*]

Definition: Additional card issuer specific data.

Datatype: "Max35Text" on page 523

10.1.7.13.12.6 EntryMode < NtryMd>

Presence: [0..1]

Definition: Entry mode of the card.

Datatype: "CardDataReading5Code" on page 482

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.

CodeName	Name	Definition
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.

10.1.7.13.13 AdditionalVehicleData <AddtlVhclData>

Presence: [0..*]

Definition: Additional information related to the vehicle.

AdditionalVehicleData < AddtlVhclData > contains the following Vehicle2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Type < <i>Tp</i> >	[01]	Text		390
	EntryMode <ntrymd></ntrymd>	[01]	CodeSet		390
	Data < Data >	[11]	Text		391

10.1.7.13.13.1 Type <Tp>

Presence: [0..1]

Definition: Type of information related to the vehicle.

Datatype: "Max35Text" on page 523

10.1.7.13.13.2 EntryMode < NtryMd>

Presence: [0..1]

Definition: Entry mode of the information.

Datatype: "CardDataReading5Code" on page 482

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.

10.1.7.13.13.3 Data < Data >

Presence: [1..1]

Definition: Information related to the vehicle.

Datatype: "Max35Text" on page 523

10.1.7.14 EncapsulatedContent3

Definition: Data to authenticate.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		391
	Content <cntt></cntt>	[01]	Binary		391

10.1.7.14.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been authenticated.

Datatype: "ContentType2Code" on page 485

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: idenvelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

10.1.7.14.2 Content <Cntt>

Presence: [0..1]

Definition: Actual data to authenticate.

Datatype: "Max100KBinary" on page 465

10.1.7.15 MaintenanceIdentificationAssociation1

Definition: Association of the TM identifier and the MTM identifier of an entity.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	MasterTMIdentification < MstrTMId>	[11]	Text		392
	TMIdentification < TMId>	[11]	Text		392

10.1.7.15.1 MasterTMIdentification < MstrTMId>

Presence: [1..1]

Definition: Identifier for the master terminal manager.

Datatype: "Max35Text" on page 523

10.1.7.15.2 TMIdentification <TMId>

Presence: [1..1]

Definition: Identifier for the terminal manager requesting the delegation.

Datatype: "Max35Text" on page 523

10.1.8 Monitoring

10.1.8.1 Traceability8

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

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Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelayIdentification < RlayId>	[11]	±		392
	ProtocolName < PrtcolNm>	[01]	Text		393
	ProtocolVersion < PrtcolVrsn>	[01]	Text		393
	TraceDateTimeIn < TracDtTmIn>	[11]	DateTime		393
	TraceDateTimeOut < TracDtTmOut>	[11]	DateTime		393

10.1.8.1.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see <u>"GenericIdentification177" on page 253</u> for details)

Or	MessageElement< <i>XML Tag></i>	Mult.	Туре	Constr. No.	Page
	Identification <id></id>	[11]	Text		254
	Type < <i>Tp</i> >	[01]	CodeSet		254
	Issuer	[01]	CodeSet		255
	Country < Ctry>	[01]	Text		255
	ShortName <shrtnm></shrtnm>	[01]	Text		255
	RemoteAccess < RmotAccs>	[01]	±		256
	Geolocation < Glctn>	[01]			256
	GeographicCoordinates < GeogcCordints>	[01]			256
	Latitude <lat></lat>	[11]	Text		257
	Longitude <i><long></long></i>	[11]	Text		257
	UTMCoordinates < UTMCordints>	[01]			257
	UTMZone < <i>UTMZon</i> e>	[11]	Text		257
	UTMEastward < <i>UTMEstwrd</i> >	[11]	Text		257
	UTMNorthward < <i>UTMNrthwrd</i> >	[11]	Text		258

10.1.8.1.2 ProtocolName < PrtcolNm>

Presence: [0..1]

Definition: Name of the outgoing protocol used by the node.

Datatype: "Max35Text" on page 523

10.1.8.1.3 ProtocolVersion < PrtcolVrsn>

Presence: [0..1]

Definition: Version of the protocol.

Datatype: "Max6Text" on page 525

10.1.8.1.4 TraceDateTimeIn <TracDtTmIn>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 517

10.1.8.1.5 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

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Datatype: "ISODateTime" on page 517

10.1.8.2 TMSEvent9

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

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	TimeStamp < TmStmp>	[11]	DateTime		394
	Result <rslt></rslt>	[11]	CodeSet		394
	ActionIdentification < Actnld>	[11]			395
	ActionType <actntp></actntp>	[11]	CodeSet		395
	DataSetIdentification < DataSetId>	[01]	±		396
	AdditionalErrorInformation <addtlerrinf></addtlerrinf>	[01]	Text		396
	TerminalManagerIdentification < TermnIMgrId>	[01]	Text		396
	DeviceResponse < DvcRspn>	[01]	±		396

10.1.8.2.1 TimeStamp <TmStmp>

Presence: [1..1]

Definition: Date time of the terminal management action performed by the point of interaction.

Datatype: "ISODateTime" on page 517

10.1.8.2.2 Result <Rslt>

Presence: [1..1]

Definition: Final result of the processed terminal management action.

Datatype: "TerminalManagementActionResult5Code" on page 513

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.
WARN	SuccessWithWarning	Action was performed but some warnings arose.
SYNE	SyntaxError	Data transferred has a wrong syntax.
TIMO	Timeout	Timeout expired during the data transfer.

CodeName	Name	Definition
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.
SUCC	Success	Action was successfully performed.

10.1.8.2.3 ActionIdentification <ActnId>

Presence: [1..1]

Definition: Identification of the terminal management action performed by the point of interaction.

ActionIdentification <ActnId> contains the following TMSActionIdentification8 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ActionType < <i>ActnTp</i> >	[11]	CodeSet		395
	DataSetIdentification < DataSetId>	[01]	±		396

10.1.8.2.3.1 ActionType <ActnTp>

Presence: [1..1]

Definition: Types of terminal management action performed by a point of interaction.

Datatype: "TerminalManagementAction5Code" on page 512

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.

CodeName	Name	Definition
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.
DEVR	DeviceRequest	Request to execute a device request.

10.1.8.2.3.2 DataSetIdentification < DataSetId>

Presence: [0..1]

Definition: Data set on which the action has been performed.

DataSetIdentification <DataSetId> contains the following elements (see "DataSetIdentification9" on page 280 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name <nm></nm>	[01]	Text		280
	Type < <i>Tp</i> >	[11]	CodeSet		280
	Version < Vrsn>	[01]	Text		281
	CreationDateTime < CreDtTm>	[01]	DateTime		281

10.1.8.2.4 AdditionalErrorInformation <AddtlErrInf>

Presence: [0..1]

Definition: Additional information related to a failure.

Datatype: "Max70Text" on page 525

10.1.8.2.5 TerminalManagerIdentification <TermnIMgrId>

Presence: [0..1]

Definition: Identification of the terminal management system (TMS) used with the action.

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Datatype: "Max35Text" on page 523

10.1.8.2.6 DeviceResponse < DvcRspn>

Presence: [0..1]

Definition: Response of a device request done previously.

DeviceResponse <DvcRspn> contains the following elements (see "DeviceResponse5" on page 172 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Environment <envt></envt>	[01]	±		174
	Context <cntxt></cntxt>	[01]	±		180
	ServiceContent <svccntt></svccntt>	[11]	CodeSet		183
	DisplayResponse <i><disprspn></disprspn></i>	[01]			183
	OutputResult < OutptRslt>	[1*]			184
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		184
	InformationQualifier < InfQlfr>	[11]	CodeSet		184
	Response <rspn></rspn>	[11]	±		185
	InputResponse <inptrspn></inptrspn>	[01]			185
	OutputResult < OutptRslt>	[01]			186
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		186
	InformationQualifier < InfQlfr>	[11]	CodeSet		187
	Response < Rspn>	[11]	±		188
	InputResult <inptrsit></inptrsit>	[11]			188
	DeviceType <i><dvctp></dvctp></i>	[11]	CodeSet		188
	InformationQualifier < InfQlfr>	[11]	CodeSet		189
	InputResultData < InptRsltData>	[11]			189
	InputCommand <inptcmd></inptcmd>	[11]	CodeSet		190
	ConfirmedFlag < ConfdFlg>	[01]	Indicator		191
	FunctionKey < FctnKey>	[01]	Quantity		191
	InputMessage <inptmsg></inptmsg>	[01]	Text		191
	Password < Pwd>	[01]	±		191
	ImageCapturedSignature < ImgCaptrdSgntr>	[01]			192
	ImageFormat < ImgFrmt>	[11]	Text		192
	ImageData < <i>ImgData</i> >	[01]	Binary		192
	ImageReference < ImgRef>	[01]	Text		192
	AdditionalInformation < AddtlInf>	[01]	Text		192
	PrintResponse < PrtRspn>	[01]			192
	DocumentQualifier < DocQlfr>	[11]	CodeSet		192
	SecureInputResponse < ScrInptRspn>	[01]			193

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	CardholderPIN < CrdhldrPIN>	[01]			193
	EncryptedPINBlock < NcrptdPINBlck>	[11]	±		194
	PINFormat < PINFrmt>	[11]	CodeSet		194
	AdditionalInput < AddtlInpt>	[01]	Text		194
	InitialisationCardReaderResponse InitlstnCardRdrRspn>	[01]			194
	CardEntryMode < CardNtryMd>	[01]	CodeSet		195
	ICCResetData	[01]			195
	ATRValue < <i>ATRVal</i> >	[01]	Binary		196
	CardStatus < CardSts>	[01]	Binary		196
	AdditionalInformation < AddtlInf>	[01]	Binary		196
	CardReaderApplicationProtocolDataUnitResponse <cardrdrapplprtcoldataunitrspn></cardrdrapplprtcoldataunitrspn>	[01]			196
	Data < Data >	[01]	Binary		196
	CardStatus < CardSts>	[11]	Binary		196
	TransmissionResponse < TrnsmssnRspn>	[01]			197
	ReceivedMessage < RcvdMsg>	[01]	Binary		197
	Response < Rspn>	[11]	±		197
	SupplementaryData <splmtrydata></splmtrydata>	[0*]	±	C5	197

10.1.8.3 ErrorAction5

Definition: Action to perform in case of error on the related action in progress.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ActionResult < ActnRslt>	[1*]	CodeSet		398
	ActionToProcess <actntoprc></actntoprc>	[11]	CodeSet		399

10.1.8.3.1 ActionResult <ActnRsIt>

Presence: [1..*]

Definition: List of error action result codes.

Datatype: "TerminalManagementActionResult5Code" on page 513

CodeName	Name	Definition
ACCD	AccessDenied	Access is denied while performing the action.
CNTE	ConnectionError	Problem to connect while performing the action.

CodeName	Name	Definition
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.
WARN	SuccessWithWarning	Action was performed but some warnings arose.
SYNE	SyntaxError	Data transferred has a wrong syntax.
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.
SUCC	Success	Action was successfully performed.

10.1.8.3.2 ActionToProcess <ActnToPrc>

Presence: [1..1]

Definition: Action to be processed for the related errors.

Datatype: "TerminalManagementErrorAction2Code" on page 515

CodeName	Name	Definition
SDSR	SendStatusReport	Send a status report immediately.
STOP	StopSequence	Stop the current sequence of terminal management actions without any action, and do not notice the error with a status report.

10.1.9 Network Access

10.1.9.1 NetworkParameters7

Definition: Parameters to communicate with a host.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Address < Adr >	[1*]			400
	NetworkType <i><ntwktp></ntwktp></i>	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400
	UserName < UsrNm>	[01]	Text		401
	AccessCode <accscd></accscd>	[01]	Binary		401
	ServerCertificate <svrcert></svrcert>	[0*]	Binary		401
	ServerCertificateIdentifier < SvrCertIdr>	[0*]	Binary		401
	ClientCertificate < CIntCert>	[0*]	Binary		401
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		401

10.1.9.1.1 Address <Adr>

Presence: [1..*]

Definition: Network addresses of the host.

Address <Adr> contains the following NetworkParameters9 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	NetworkType < <i>NtwkTp</i> >	[11]	CodeSet		400
	AddressValue <adrval></adrval>	[11]	Text		400

10.1.9.1.1.1 NetworkType <NtwkTp>

Presence: [1..1]

Definition: Type of communication network.

Datatype: "NetworkType1Code" on page 496

CodeName	Name	Definition
IPNW	InternetProtocol	Protocol of an IP network.
PSTN	PublicTelephone	Protocol of a Public Switched Telephone Network (PSTN).

10.1.9.1.1.2 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 524

10.1.9.1.2 UserName <UsrNm>

Presence: [0..1]

Definition: User name identifying the client.

Datatype: "Max35Text" on page 523

10.1.9.1.3 AccessCode <AccsCd>

Presence: [0..1]

Definition: Password authenticating the client.

Datatype: "Max35Binary" on page 467

10.1.9.1.4 ServerCertificate <SvrCert>

Presence: [0..*]

Definition: X.509 Certificate required to authenticate the server.

Datatype: "Max10KBinary" on page 466

10.1.9.1.5 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 466

10.1.9.1.6 ClientCertificate <CIntCert>

Presence: [0..*]

Definition: X.509 Certificate required to authenticate the client.

Datatype: "Max10KBinary" on page 466

10.1.9.1.7 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the set of security elements to access the host.

Datatype: "Max35Text" on page 523

10.1.10 Postal Address

10.1.10.1 PostalAddress22

Definition: Information that locates and identifies a specific address, as defined by postal services.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	AddressType < <i>AdrTp</i> >	[01]	CodeSet		402
	Department < Dept>	[01]	Text		402
	SubDepartment <subdept></subdept>	[01]	Text		402
	AddressLine < AdrLine>	[02]	Text		402
	StreetName <strtnm></strtnm>	[01]	Text		403
	BuildingNumber <i><bldgnb></bldgnb></i>	[01]	Text		403
	PostCode <pstcd></pstcd>	[01]	Text		403
	TownName < TwnNm>	[01]	Text		403
	CountrySubDivision < CtrySubDvsn>	[02]	Text		403
	CountryCode < CtryCd>	[01]	Text		403

10.1.10.1.1 AddressType <AdrTp>

Presence: [0..1]

Definition: Identifies the nature of the postal address.

Datatype: "AddressType2Code" on page 468

CodeName	Name	Definition		
ADDR	Postal	Address is the complete postal address.		
РВОХ	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.		

402

10.1.10.1.2 Department < Dept>

Presence: [0..1]

Definition: Identification of a division of a large organisation or building.

Datatype: "Max70Text" on page 525

10.1.10.1.3 SubDepartment <SubDept>

Presence: [0..1]

Definition: Identification of a sub-division of a large organisation or building.

Datatype: "Max70Text" on page 525

10.1.10.1.4 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 525

10.1.10.1.5 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 525

10.1.10.1.6 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 522

10.1.10.1.7 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 522

10.1.10.1.8 TownName < TwnNm>

Presence: [0..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max70Text" on page 525

10.1.10.1.9 CountrySubDivision < CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country such as state, region, county.

Datatype: "Max35Text" on page 523

10.1.10.1.10 CountryCode <CtryCd>

Presence: [0..1]

Definition: Nation with its own government.

Datatype: "Min2Max3AlphaText" on page 526

10.1.11 Secure Element

10.1.11.1 DigestedData5

Definition: Digest computed on the identified data.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		404
	DigestAlgorithm < DgstAlgo>	[11]	±		404
	EncapsulatedContent < NcpsltdCntt>	[11]	±		404
	Digest < Dgst>	[11]	Binary		404

10.1.11.1.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.1.2 DigestAlgorithm < DgstAlgo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

DigestAlgorithm <DgstAlgo> contains the following elements (see <u>"AlgorithmIdentification21" on page 453 for details)</u>

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		453

10.1.11.1.3 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data on which the digest is computed.

EncapsulatedContent <NcpsItdCntt> contains the following elements (see <u>"EncapsulatedContent3"</u> on page 391 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		391
	Content <cntt></cntt>	[01]	Binary		391

10.1.11.1.4 Digest <Dgst>

Presence: [1..1]

Definition: Result of data-digesting process.

Datatype: "Max140Binary" on page 466

10.1.11.2 AuthenticatedData8

Definition: Message authentication code (MAC), computed on the data to protect with an encryption key.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr.	Page
	Version < Vrsn>	[01]	Quantity		405
	Recipient <rcpt></rcpt>	[1*]			405
{Or	KeyTransport < KeyTrnsprt>	[11]			406
	Version < Vrsn>	[01]	Quantity		407
	RecipientIdentification < RcptId>	[11]			407
{Or	IssuerAndSerialNumber	[11]			407
	Issuer < Issr>	[11]			408
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			408
	AttributeType <attrtp></attrtp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		409
	EncryptedKey < NcrptdKey>	[11]	Binary		410
Or	KEK < <i>KEK</i> >	[11]			410
	Version < Vrsn>	[01]	Quantity		410
	KEKIdentification < KEKId>	[11]	±		410
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		411
	EncryptedKey < NcrptdKey>	[01]	Binary		411
Or}	Keyldentifier < Keyldr>	[11]	±		411
	MACAlgorithm < MACAlgo>	[11]	±		412
	EncapsulatedContent < NcpsltdCntt>	[11]	±		412
	MAC <mac></mac>	[11]	Binary		412

10.1.11.2.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.2.2 Recipient <Rcpt>

Presence: [1..*]

Definition: Session key or protection key identification used by the recipient.

Recipient <Rcpt> contains one of the following Recipient11Choice elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
{Or	KeyTransport <keytrnsprt></keytrnsprt>	[11]			406
	Version < Vrsn>	[01]	Quantity		407
	RecipientIdentification < RcptId>	[11]			407
{Or	IssuerAndSerialNumber < IssrAndSrlNb>	[11]			407
	Issuer < Issr>	[11]			408
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			408
	AttributeType <i><attrtp></attrtp></i>	[11]	CodeSet		408
	AttributeValue <attrval></attrval>	[11]	Text		409
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		409
	EncryptedKey <ncrptdkey></ncrptdkey>	[11]	Binary		410
Or	KEK < <i>KEK</i> >	[11]			410
	Version < Vrsn>	[01]	Quantity		410
	KEKIdentification < KEKId>	[11]	±		410
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		411
	EncryptedKey <ncrptdkey></ncrptdkey>	[01]	Binary		411
Or}	Keyldentifier < Keyldr>	[11]	±		411

10.1.11.2.2.1 KeyTransport <KeyTrnsprt>

Presence: [1..1]

Definition: Encryption key using previously distributed asymmetric public key.

KeyTransport < KeyTrnsprt> contains the following **KeyTransport8** elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		407
	RecipientIdentification < RcptId>	[11]			407
{Or	IssuerAndSerialNumber	[11]			407
	Issuer	[11]			408
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			408
	AttributeType < AttrTp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		409
	EncryptedKey < NcrptdKey>	[11]	Binary		410

10.1.11.2.2.1.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.2.2.1.2 RecipientIdentification <RcptId>

Presence: [1..1]

Definition: Identification of a cryptographic asymmetric key for the recipient.

RecipientIdentification <RcptId> contains one of the following Recipient12Choice elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			407
	Issuer	[11]			408
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			408
	AttributeType <attrtp></attrtp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409

407

10.1.11.2.2.1.2.1 IssuerAndSerialNumber <IssrAndSrINb>

Presence: [1..1]

Definition: Certificate issuer name and serial number (see ITU X.509).

IssuerAndSerialNumber <IssrAndSrINb> contains the following IssuerAndSerialNumber2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Issuer	[11]			408
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			408
	AttributeType <attrtp></attrtp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		409

10.1.11.2.2.1.2.1.1 Issuer < lssr>

Presence: [1..1]

Definition: Certificate issuer name (see X.509).

Issuer <Issr> contains the following CertificateIssuer1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			408
	AttributeType < AttrTp>	[11]	CodeSet		408
	AttributeValue <attrval></attrval>	[11]	Text		409

10.1.11.2.2.1.2.1.1.1 RelativeDistinguishedName <RItvDstngshdNm>

Presence: [1..*]

Definition: Relative distinguished name inside a X.509 certificate.

RelativeDistinguishedName <RItvDstngshdNm> contains the following RelativeDistinguishedName1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AttributeType < <i>AttrTp</i> >	[11]	CodeSet		408
	AttributeValue <attrval></attrval>	[11]	Text		409

10.1.11.2.2.1.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 476

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-atorganizationName).	
OUAT	UAT OrganisationUnitName Organization unit name of (ASN.1 Object Identifier: organizationalUnitName)		
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).	

10.1.11.2.2.1.2.1.1.1.2 AttributeValue <AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 522

10.1.11.2.2.1.2.1.2 SerialNumber <SrlNb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max500Binary" on page 467

10.1.11.2.2.1.2.2 Keyldentifier < Keyldr>

Presence: [1..1]

Definition: Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

Keyldentifier <Keyldr> contains the following elements (see "KEKIdentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.2.2.1.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see

"AlgorithmIdentification19" on page 454 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		454
	Parameter < <i>Param</i> >	[01]			454
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		455
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		455
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]	±		456

10.1.11.2.2.1.4 EncryptedKey < NcrptdKey>

Presence: [1..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max5000Binary" on page 467

10.1.11.2.2.2 KEK <KEK>

Presence: [1..1]

Definition: Key encryption key using previously distributed symmetric key.

KEK <KEK> contains the following KEK8 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		410
	KEKIdentification < KEKId>	[11]	±		410
	KeyEncryptionAlgorithm <keyncrptnalgo></keyncrptnalgo>	[11]	±		411
	EncryptedKey <ncrptdkey></ncrptdkey>	[01]	Binary		411

410

10.1.11.2.2.2.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.2.2.2.2 KEKIdentification < KEKId>

Presence: [1..1]

Definition: Identification of the key encryption key (KEK).

KEKIdentification <KEKId> contains the following elements (see "KEKIdentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.2.2.2.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see

"AlgorithmIdentification29" on page 446 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		446
	Parameter < Param>	[01]			448
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		449
	InitialisationVector < InitlstnVctr>	[01]	Binary		449
	BytePadding <bpddg></bpddg>	[01]	CodeSet		449

10.1.11.2.2.2.4 EncryptedKey < NcrptdKey>

Presence: [0..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max500Binary" on page 467

10.1.11.2.2.3 Keyldentifier <Keyldr>

Presence: [1..1]

Definition: Identification of a protection key without a session key, shared and previously exchanged between the initiator and the recipient.

Keyldentifier <Keyldr> contains the following elements (see "KEKldentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.2.3 MACAlgorithm < MACAlgo>

Presence: [1..1]

Definition: Algorithm to compute message authentication code (MAC).

MACAlgorithm <MACAlgo> contains the following elements (see <u>"AlgorithmIdentification22" on page 450 for details)</u>

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		450
	Parameter < Param>	[01]			452
	InitialisationVector < InitlstnVctr>	[01]	Binary		452
	BytePadding < <i>BPddg</i> >	[01]	CodeSet		452

10.1.11.2.4 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data to authenticate.

EncapsulatedContent <NcpsItdCntt> contains the following elements (see <u>"EncapsulatedContent3"</u> on page 391 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		391
	Content <cntt></cntt>	[01]	Binary		391

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10.1.11.2.5 MAC <MAC>

Presence: [1..1]

Definition: Message authentication code value.

Datatype: "Max140Binary" on page 466

10.1.11.3 EnvelopedData9

Definition: Encrypted data with encryption key.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		413
	OriginatorInformation < OrgtrInf>	[01]			414
	Certificate < Cert>	[0*]	Binary		414
	Recipient <rcpt></rcpt>	[1*]			414
{Or	KeyTransport < KeyTrnsprt>	[11]			415
	Version < Vrsn>	[01]	Quantity		416
	RecipientIdentification < RcptId>	[11]			416
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			416
	Issuer < Issr>	[11]			417
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			417
	AttributeType <attrtp></attrtp>	[11]	CodeSet		417
	AttributeValue < AttrVal>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418
Or}	Keyldentifier < Keyldr>	[11]	±		418
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		418
	EncryptedKey < NcrptdKey>	[11]	Binary		419
Or	KEK < <i>KEK</i> >	[11]			419
	Version < Vrsn>	[01]	Quantity		419
	KEKIdentification < KEKId>	[11]	±		419
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		420
	EncryptedKey < NcrptdKey>	[01]	Binary		420
Or}	Keyldentifier < Keyldr>	[11]	±		420
	EncryptedContent < NcrptdCntt>	[01]			421
	ContentType <cntttp></cntttp>	[11]	CodeSet		421
	ContentEncryptionAlgorithm < CnttNcrptnAlgo>	[01]	±		421
	EncryptedData < NcrptdData>	[11]	Binary		422

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10.1.11.3.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.3.2 OriginatorInformation <OrgtrInf>

Presence: [0..1]

Definition: Provides certificates of the originator.

OriginatorInformation <OrgtrInf> contains the following OriginatorInformation1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Certificate < Cert>	[0*]	Binary		414

10.1.11.3.2.1 Certificate < Cert>

Presence: [0..*]

Definition: It may contain originator certificates associated with several different key management

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algorithms.

Datatype: "Max5000Binary" on page 467

10.1.11.3.3 Recipient < Rcpt>

Presence: [1..*]

Definition: Session key or identification of the protection key used by the recipient.

Recipient <Rcpt> contains one of the following Recipient11Choice elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
{Or	KeyTransport <keytrnsprt></keytrnsprt>	[11]			415
	Version < Vrsn>	[01]	Quantity		416
	RecipientIdentification < RcptId>	[11]			416
{Or	IssuerAndSerialNumber < IssrAndSrlNb>	[11]			416
	Issuer < Issr>	[11]			417
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			417
	AttributeType <i><attrtp></attrtp></i>	[11]	CodeSet		417
	AttributeValue <attrval></attrval>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418
Or}	Keyldentifier < Keyldr>	[11]	±		418
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		418
	EncryptedKey <ncrptdkey></ncrptdkey>	[11]	Binary		419
Or	KEK < <i>KEK</i> >	[11]			419
	Version < Vrsn>	[01]	Quantity		419
	KEKIdentification < KEKId>	[11]	±		419
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		420
	EncryptedKey <ncrptdkey></ncrptdkey>	[01]	Binary		420
Or}	Keyldentifier < Keyldr>	[11]	±		420

10.1.11.3.3.1 KeyTransport <KeyTrnsprt>

Presence: [1..1]

Definition: Encryption key using previously distributed asymmetric public key.

KeyTransport < KeyTrnsprt> contains the following **KeyTransport8** elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		416
	RecipientIdentification < RcptId>	[11]			416
{Or	IssuerAndSerialNumber	[11]			416
	Issuer	[11]			417
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			417
	AttributeType < AttrTp>	[11]	CodeSet		417
	AttributeValue <attrval></attrval>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418
Or}	Keyldentifier < Keyldr>	[11]	±		418
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		418
	EncryptedKey < NcrptdKey>	[11]	Binary		419

10.1.11.3.3.1.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.3.3.1.2 RecipientIdentification <RcptId>

Presence: [1..1]

Definition: Identification of a cryptographic asymmetric key for the recipient.

RecipientIdentification <RcptId> contains one of the following Recipient12Choice elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			416
	Issuer	[11]			417
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			417
	AttributeType <attrtp></attrtp>	[11]	CodeSet		417
	AttributeValue < AttrVal>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418
Or}	Keyldentifier <keyldr></keyldr>	[11]	±		418

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10.1.11.3.3.1.2.1 IssuerAndSerialNumber <IssrAndSrINb>

Presence: [1..1]

Definition: Certificate issuer name and serial number (see ITU X.509).

IssuerAndSerialNumber <IssrAndSrINb> contains the following IssuerAndSerialNumber2 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Issuer	[11]			417
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			417
	AttributeType <attrtp></attrtp>	[11]	CodeSet		417
	AttributeValue < AttrVal>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418

10.1.11.3.3.1.2.1.1 Issuer < lssr>

Presence: [1..1]

Definition: Certificate issuer name (see X.509).

Issuer <Issr> contains the following CertificateIssuer1 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			417
	AttributeType < AttrTp>	[11]	CodeSet		417
	AttributeValue < AttrVal>	[11]	Text		418

10.1.11.3.3.1.2.1.1.1 RelativeDistinguishedName <RItvDstngshdNm>

Presence: [1..*]

Definition: Relative distinguished name inside a X.509 certificate.

RelativeDistinguishedName <RItvDstngshdNm> contains the following RelativeDistinguishedName1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AttributeType < <i>AttrTp</i> >	[11]	CodeSet		417
	AttributeValue <attrval></attrval>	[11]	Text		418

10.1.11.3.3.1.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 476

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-atorganizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-atorganizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

10.1.11.3.3.1.2.1.1.1.2 AttributeValue < AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 522

10.1.11.3.3.1.2.1.2 SerialNumber <SrlNb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max500Binary" on page 467

10.1.11.3.3.1.2.2 Keyldentifier < Keyldr>

Presence: [1..1]

Definition: Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

Keyldentifier <Keyldr> contains the following elements (see "KEKIdentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

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10.1.11.3.3.1.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see

"AlgorithmIdentification19" on page 454 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		454
	Parameter < <i>Param</i> >	[01]			454
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		455
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		455
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]	±		456

10.1.11.3.3.1.4 EncryptedKey < NcrptdKey>

Presence: [1..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max5000Binary" on page 467

10.1.11.3.3.2 KEK <KEK>

Presence: [1..1]

Definition: Key encryption key using previously distributed symmetric key.

KEK <KEK> contains the following KEK8 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		419
	KEKIdentification < KEKId>	[11]	±		419
	KeyEncryptionAlgorithm <keyncrptnalgo></keyncrptnalgo>	[11]	±		420
	EncryptedKey <ncrptdkey></ncrptdkey>	[01]	Binary		420

10.1.11.3.3.2.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.3.3.2.2 KEKIdentification <KEKId>

Presence: [1..1]

Definition: Identification of the key encryption key (KEK).

KEKIdentification <KEKId> contains the following elements (see "KEKIdentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.3.3.2.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <KeyNcrptnAlgo> contains the following elements (see

"AlgorithmIdentification29" on page 446 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		446
	Parameter < Param>	[01]			448
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		449
	InitialisationVector < InitlstnVctr>	[01]	Binary		449
	BytePadding <bpddg></bpddg>	[01]	CodeSet		449

10.1.11.3.3.2.4 EncryptedKey < NcrptdKey>

Presence: [0..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max500Binary" on page 467

10.1.11.3.3.3 Keyldentifier <Keyldr>

Presence: [1..1]

Definition: Identification of a protection key without a session key, shared and previously exchanged between the initiator and the recipient.

Keyldentifier <Keyldr> contains the following elements (see "KEKIdentifier7" on page 136 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.3.4 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=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		421
	ContentEncryptionAlgorithm < CnttNcrptnAlgo>	[01]	±		421
	EncryptedData <ncrptddata></ncrptddata>	[11]	Binary		422

10.1.11.3.4.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been encrypted.

Datatype: "ContentType2Code" on page 485

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: idenvelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

10.1.11.3.4.2 ContentEncryptionAlgorithm <CnttNcrptnAlgo>

Presence: [0..1]

Definition: Algorithm used to encrypt the data.

ContentEncryptionAlgorithm <CnttNcrptnAlgo> contains the following elements (see

"AlgorithmIdentification29" on page 446 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		446
	Parameter < Param>	[01]			448
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		449
	InitialisationVector < InitlstnVctr>	[01]	Binary		449
	BytePadding <bpddg></bpddg>	[01]	CodeSet		449

10.1.11.3.4.3 EncryptedData <NcrptdData>

Presence: [1..1]

Definition: Encrypted data, result of the content encryption.

Datatype: "Max100KBinary" on page 465

10.1.11.4 SignedData7

Definition: Digital signatures of data from one or several signers.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		422
	DigestAlgorithm < DgstAlgo>	[0*]	±		423
	EncapsulatedContent <ncpsltdcntt></ncpsltdcntt>	[01]	±		423
	Certificate <cert></cert>	[0*]	Binary		423
	Signer <sgnr></sgnr>	[0*]			423
	Version < Vrsn>	[01]	Quantity		424
	SignerIdentification <sgnrid></sgnrid>	[01]			424
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			425
	Issuer	[11]			425
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType <attrtp></attrtp>	[11]	CodeSet		426
	AttributeValue < AttrVal>	[11]	Text		426
	SerialNumber < SrlNb>	[11]	Binary		426
Or}	Keyldentifier < Keyldr>	[11]	±		426
	DigestAlgorithm < DgstAlgo>	[11]	±		427
	SignedAttributes <sgndattrbts></sgndattrbts>	[0*]			427
	Name <nm></nm>	[11]	Text		427
	Value < <i>Val</i> >	[01]	Text		427
	SignatureAlgorithm <sgntralgo></sgntralgo>	[11]	±		427
	Signature <sgntr></sgntr>	[11]	Binary		428

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10.1.11.4.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 519

10.1.11.4.2 DigestAlgorithm < DgstAlgo>

Presence: [0..*]

Definition: Identification of digest algorithm applied before signature.

DigestAlgorithm <DgstAlgo> contains the following elements (see "AlgorithmIdentification21" on page 453 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		453

10.1.11.4.3 EncapsulatedContent <NcpsltdCntt>

Presence: [0..1]

Definition: Data to sign.

EncapsulatedContent <NcpsItdCntt> contains the following elements (see <u>"EncapsulatedContent3"</u> on page 391 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType <cntttp></cntttp>	[11]	CodeSet		391
	Content <cntt></cntt>	[01]	Binary		391

10.1.11.4.4 Certificate <Cert>

Presence: [0..*]

Definition: Chain of X.509 certificates.

Datatype: "Max5000Binary" on page 467

10.1.11.4.5 Signer <Sgnr>

Presence: [0..*]

Definition: Digital signature and identification of a signer.

Signer <Sgnr> contains the following Signer6 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		424
	SignerIdentification <sgnrid></sgnrid>	[01]			424
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			425
	Issuer	[11]			425
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType <attrtp></attrtp>	[11]	CodeSet		426
	AttributeValue < AttrVal>	[11]	Text		426
	SerialNumber <srlnb></srlnb>	[11]	Binary		426
Or}	Keyldentifier < Keyldr>	[11]	±		426
	DigestAlgorithm < DgstAlgo>	[11]	±		427
	SignedAttributes <sgndattrbts></sgndattrbts>	[0*]			427
	Name < <i>Nm</i> >	[11]	Text		427
	Value < <i>Val</i> >	[01]	Text		427
	SignatureAlgorithm <sgntralgo></sgntralgo>	[11]	±		427
	Signature <sgntr></sgntr>	[11]	Binary		428

10.1.11.4.5.1 Version < Vrsn>

Presence: [0..1]

Definition: Version of the Cryptographic Message Syntax (CMS) data structure.

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Datatype: "Number" on page 519

10.1.11.4.5.2 SignerIdentification <Sgnrld>

Presence: [0..1]

Definition: Identification of the entity who has signed the data.

SignerIdentification <SgnrId> contains one of the following Recipient12Choice elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
{Or	IssuerAndSerialNumber < IssrAndSrlNb>	[11]			425
	Issuer	[11]			425
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType <attrtp></attrtp>	[11]	CodeSet		426
	AttributeValue < AttrVal>	[11]	Text		426
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		426
Or}	Keyldentifier <keyldr></keyldr>	[11]	±		426

10.1.11.4.5.2.1 IssuerAndSerialNumber <IssrAndSrINb>

Presence: [1..1]

Definition: Certificate issuer name and serial number (see ITU X.509).

IssuerAndSerialNumber <IssrAndSrINb> contains the following IssuerAndSerialNumber2 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Issuer	[11]			425
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType < AttrTp>	[11]	CodeSet		426
	AttributeValue <attrval></attrval>	[11]	Text		426
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		426

10.1.11.4.5.2.1.1 Issuer < Issr>

Presence: [1..1]

Definition: Certificate issuer name (see X.509).

Issuer <Issr> contains the following CertificateIssuer1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType < AttrTp>	[11]	CodeSet		426
	AttributeValue < AttrVal>	[11]	Text		426

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10.1.11.4.5.2.1.1.1 RelativeDistinguishedName <RItvDstngshdNm>

Presence: [1..*]

Definition: Relative distinguished name inside a X.509 certificate.

RelativeDistinguishedName <RItvDstngshdNm> contains the following RelativeDistinguishedName1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	AttributeType < <i>AttrTp</i> >	[11]	CodeSet		426
	AttributeValue <attrval></attrval>	[11]	Text		426

10.1.11.4.5.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

Definition: Type of attribute of a distinguished name (see X.500).

Datatype: "AttributeType1Code" on page 476

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-atorganizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-atorganizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

10.1.11.4.5.2.1.1.1.2 AttributeValue < AttrVal>

Presence: [1..1]

Definition: Value of the attribute of a distinguished name (see X.500).

Datatype: "Max140Text" on page 522

10.1.11.4.5.2.1.2 SerialNumber <SrlNb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max500Binary" on page 467

10.1.11.4.5.2.2 Keyldentifier < Keyldr>

Presence: [1..1]

Definition: Identifier of a cryptographic asymmetric key, previously exchanged between initiator and

recipient.

Keyldentifier <Keyldr> contains the following elements (see "KEKldentifier7" on page 136 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Keyldentification < Keyld>	[11]	Text		136
	KeyVersion < KeyVrsn>	[11]	Text		136
	SequenceNumber <seqnb></seqnb>	[01]	Quantity		136
	DerivationIdentification < DerivtnId>	[01]	Binary		136

10.1.11.4.5.3 DigestAlgorithm < DgstAlgo>

Presence: [1..1]

Definition: Identification of a digest algorithm to apply before signature.

DigestAlgorithm <DgstAlgo> contains the following elements (see <u>"AlgorithmIdentification21" on page 453</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm <i><algo></algo></i>	[11]	CodeSet		453

10.1.11.4.5.4 SignedAttributes <SgndAttrbts>

Presence: [0..*]

Definition: Collection of attributes that are signed.

SignedAttributes <SgndAttrbts> contains the following GenericInformation1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Name < <i>Nm</i> >	[11]	Text		427
	Value <val></val>	[01]	Text		427

427

10.1.11.4.5.4.1 Name < Nm>

Presence: [1..1]

Definition: Name of the generic information to exchange.

Datatype: "Max70Text" on page 525

10.1.11.4.5.4.2 Value <Val>

Presence: [0..1]

Definition: Value of the generic information to exchange.

Datatype: "Max140Text" on page 522

10.1.11.4.5.5 SignatureAlgorithm <SgntrAlgo>

Presence: [1..1]

Definition: Cryptographic digital signature algorithm.

SignatureAlgorithm <SgntrAlgo> contains the following elements (see "AlgorithmIdentification30" on page 442 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		442
	Parameter <param/>	[01]			443
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		444
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]			445
	Algorithm <i><algo></algo></i>	[11]	CodeSet		445
	Parameter < Param>	[01]			445
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		445
	SaltLength <saltlngth></saltlngth>	[01]	Quantity		446
	TrailerField < <i>TrlrFld</i> >	[01]	Quantity		446
	OIDCurveName < OIDCrvNm>	[01]	Text		446

10.1.11.4.5.6 Signature <Sgntr>

Presence: [1..1]

Definition: Digital signature.

Datatype: "Max3000Binary" on page 466

10.1.11.5 ContentInformationType32

Definition: General cryptographic message syntax (CMS) containing encrypted data.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		428
	EnvelopedData < EnvlpdData >	[11]	±		429

10.1.11.5.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 485

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: idenvelopedData).

CodeName	Name	Definition
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

10.1.11.5.2 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 <u>"EnvelopedData9" on page 412</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		413
	OriginatorInformation < OrgtrInf>	[01]			414
	Certificate < Cert>	[0*]	Binary		414
	Recipient <rcpt></rcpt>	[1*]			414
{Or	KeyTransport <keytrnsprt></keytrnsprt>	[11]			415
	Version < Vrsn>	[01]	Quantity		416
	RecipientIdentification < RcptId>	[11]			416
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			416
	Issuer < Issr>	[11]			417
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			417
	AttributeType <attrtp></attrtp>	[11]	CodeSet		417
	AttributeValue <attrval></attrval>	[11]	Text		418
	SerialNumber <srlnb></srlnb>	[11]	Binary		418
Or}	Keyldentifier < Keyldr>	[11]	±		418
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		418
	EncryptedKey < NcrptdKey>	[11]	Binary		419
Or	KEK < <i>KEK</i> >	[11]			419
	Version < Vrsn>	[01]	Quantity		419
	KEKIdentification < KEKId>	[11]	±		419
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		420
	EncryptedKey < NcrptdKey>	[01]	Binary		420
Or}	Keyldentifier < Keyldr>	[11]	±		420
	EncryptedContent < NcrptdCntt>	[01]			421
	ContentType <cntttp></cntttp>	[11]	CodeSet		421
	ContentEncryptionAlgorithm < CnttNcrptnAlgo>	[01]	±		421
	EncryptedData < NcrptdData >	[11]	Binary		422
$\overline{}$	1				1

10.1.11.6 ContentInformationType30

Definition: General cryptographic message syntax (CMS) containing protected data.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

10.1.11.6.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 485

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: idenvelopedData).
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).

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10.1.11.6.2 EnvelopedData < EnvlpdData >

Presence: [0..1]

Definition: Data protection by encryption, with a session key.

EnvelopedData <EnvlpdData> contains the following elements (see <u>"EnvelopedData9" on page 412</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		413
	OriginatorInformation < OrgtrInf>	[01]			414
	Certificate < Cert>	[0*]	Binary		414
	Recipient <rcpt></rcpt>	[1*]			414
{Or	KeyTransport <keytrnsprt></keytrnsprt>	[11]			415
	Version < Vrsn>	[01]	Quantity		416
	RecipientIdentification < RcptId>	[11]			416
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			416
	Issuer < Issr>	[11]			417
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			417
	AttributeType <attrtp></attrtp>	[11]	CodeSet		417
	AttributeValue <attrval></attrval>	[11]	Text		418
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		418
Or}	Keyldentifier < Keyldr>	[11]	±		418
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		418
	EncryptedKey < NcrptdKey>	[11]	Binary		419
Or	KEK < <i>KEK</i> >	[11]			419
	Version < Vrsn>	[01]	Quantity		419
	KEKIdentification < KEKId>	[11]	±		419
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		420
	EncryptedKey < NcrptdKey>	[01]	Binary		420
Or}	Keyldentifier < Keyldr>	[11]	±		420
	EncryptedContent < NcrptdCntt>	[01]			421
	ContentType <cntttp></cntttp>	[11]	CodeSet		421
	ContentEncryptionAlgorithm < CnttNcrptnAlgo>	[01]	±		421
	EncryptedData < NcrptdData>	[11]	Binary		422
	I				1

10.1.11.6.3 AuthenticatedData < AuthntcdData >

Presence: [0..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see <u>"AuthenticatedData8" on page 404</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		405
	Recipient <rcpt></rcpt>	[1*]			405
{Or	KeyTransport < KeyTrnsprt>	[11]			406
	Version < Vrsn>	[01]	Quantity		407
	RecipientIdentification < RcptId>	[11]			407
{Or	IssuerAndSerialNumber	[11]			407
	Issuer	[11]			408
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			408
	AttributeType <attrtp></attrtp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber <srlnb></srlnb>	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		409
	EncryptedKey < NcrptdKey>	[11]	Binary		410
Or	KEK < <i>KEK</i> >	[11]			410
	Version < <i>Vrsn></i>	[01]	Quantity		410
	KEKIdentification < KEKId>	[11]	±		410
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		411
	EncryptedKey < NcrptdKey>	[01]	Binary		411
Or}	Keyldentifier < Keyldr>	[11]	±		411
	MACAlgorithm < MACAlgo>	[11]	±		412
	EncapsulatedContent < NcpsltdCntt>	[11]	±		412
	MAC <mac></mac>	[11]	Binary		412

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10.1.11.6.4 SignedData <SgndData>

Presence: [0..1]

Definition: Data protected by a digital signatures.

SignedData <SgndData> contains the following elements (see "SignedData7" on page 422 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		422
	DigestAlgorithm < DgstAlgo>	[0*]	±		423
	EncapsulatedContent < NcpsltdCntt>	[01]	±		423
	Certificate < Cert>	[0*]	Binary		423
	Signer < Sgnr>	[0*]			423
	Version < Vrsn>	[01]	Quantity		424
	SignerIdentification <sgnrid></sgnrid>	[01]			424
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			425
	Issuer	[11]			425
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			425
	AttributeType <attrtp></attrtp>	[11]	CodeSet		426
	AttributeValue <attrval></attrval>	[11]	Text		426
	SerialNumber < SrlNb>	[11]	Binary		426
Or}	Keyldentifier < Keyldr>	[11]	±		426
	DigestAlgorithm < DgstAlgo>	[11]	±		427
	SignedAttributes < SgndAttrbts>	[0*]			427
	Name <nm></nm>	[11]	Text		427
	Value < <i>Val</i> >	[01]	Text		427
	SignatureAlgorithm < SgntrAlgo>	[11]	±		427
	Signature <i><sgntr></sgntr></i>	[11]	Binary		428

10.1.11.6.5 DigestedData < DgstdData >

Presence: [0..1]

Definition: Data protected by a digest.

DigestedData <DgstdData> contains the following elements (see "DigestedData5" on page 403 for details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		404
	DigestAlgorithm < DgstAlgo>	[11]	±		404
	EncapsulatedContent < NcpsltdCntt>	[11]	±		404
	Digest < Dgst>	[11]	Binary		404

10.1.11.7 ContentInformationType29

Definition: General cryptographic message syntax (CMS) containing data. protected by a MAC or a digital signature.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ContentType < CnttTp>	[11]	CodeSet		435
	AuthenticatedData < AuthntcdData >	[01]	±		435
	SignedData < SgndData >	[01]	±		436

10.1.11.7.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 485

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: idenvelopedData).
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).

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10.1.11.7.2 AuthenticatedData < AuthntcdData >

Presence: [0..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see <u>"AuthenticatedData8" on page 404</u> for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		405
	Recipient <rcpt></rcpt>	[1*]			405
{Or	KeyTransport < KeyTrnsprt>	[11]			406
	Version < Vrsn>	[01]	Quantity		407
	RecipientIdentification < RcptId>	[11]			407
{Or	IssuerAndSerialNumber	[11]			407
	Issuer	[11]			408
	RelativeDistinguishedName < RltvDstngshdNm>	[1*]			408
	AttributeType <attrtp></attrtp>	[11]	CodeSet		408
	AttributeValue < AttrVal>	[11]	Text		409
	SerialNumber <srlnb></srlnb>	[11]	Binary		409
Or}	Keyldentifier < Keyldr>	[11]	±		409
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		409
	EncryptedKey < NcrptdKey>	[11]	Binary		410
Or	KEK < <i>KEK</i> >	[11]			410
	Version < <i>Vrsn></i>	[01]	Quantity		410
	KEKIdentification < KEKId>	[11]	±		410
	KeyEncryptionAlgorithm < KeyNcrptnAlgo>	[11]	±		411
	EncryptedKey < NcrptdKey>	[01]	Binary		411
Or}	Keyldentifier < Keyldr>	[11]	±		411
	MACAlgorithm < MACAlgo>	[11]	±		412
	EncapsulatedContent < NcpsltdCntt>	[11]	±		412
	MAC <mac></mac>	[11]	Binary		412

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10.1.11.7.3 SignedData <SgndData>

Presence: [0..1]

Definition: Data protected by a digital signatures.

SignedData <SgndData> contains the following elements (see "SignedData7" on page 422 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Version < Vrsn>	[01]	Quantity		422
	DigestAlgorithm < DgstAlgo>	[0*]	±		423
	EncapsulatedContent < NcpsltdCntt>	[01]	±		423
	Certificate <cert></cert>	[0*]	Binary		423
	Signer <sgnr></sgnr>	[0*]			423
	Version < Vrsn>	[01]	Quantity		424
	SignerIdentification <sgnrid></sgnrid>	[01]			424
{Or	IssuerAndSerialNumber < IssrAndSrINb>	[11]			425
	Issuer <issr></issr>	[11]			425
	RelativeDistinguishedName <rltvdstngshdnm></rltvdstngshdnm>	[1*]			425
	AttributeType <attrtp></attrtp>	[11]	CodeSet		426
	AttributeValue < AttrVal>	[11]	Text		426
	SerialNumber < <i>SrlNb</i> >	[11]	Binary		426
Or}	Keyldentifier < Keyldr>	[11]	±		426
	DigestAlgorithm < DgstAlgo>	[11]	±		427
	SignedAttributes <sgndattrbts></sgndattrbts>	[0*]			427
	Name <nm></nm>	[11]	Text		427
	Value < <i>Val</i> >	[01]	Text		427
	SignatureAlgorithm <sgntralgo></sgntralgo>	[11]	±		427
	Signature <sgntr></sgntr>	[11]	Binary		428
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10.1.11.8 CryptographicKey16

Definition: Cryptographic Key.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Identification	[11]	Text		438
	AdditionalIdentification < AddtlId>	[01]	Binary		438
	Name <nm></nm>	[01]	Text		438
	SecurityProfile <sctyprfl></sctyprfl>	[01]	Text		439
	ItemNumber	[01]	Text		439
	Version < Vrsn>	[11]	Text		439
	Type <tp></tp>	[01]	CodeSet		439
	Function <fctn></fctn>	[0*]	CodeSet		440
	ActivationDate <actvtndt></actvtndt>	[01]	DateTime		440
	DeactivationDate < DeactvtnDt>	[01]	DateTime		440
	KeyValue <keyval></keyval>	[01]	±		441
	KeyCheckValue <keychckval></keychckval>	[01]	Binary		441
	AdditionalManagementInformation < AddtlMgmtInf>	[0*]			441
	Name < <i>Nm</i> >	[11]	Text		441
	Value < <i>Val</i> >	[01]	Text		441

10.1.11.8.1 Identification <Id>

Presence: [1..1]

Definition: Name of the cryptographic key. *Datatype:* "Max350Text" on page 523

10.1.11.8.2 AdditionalIdentification <Addtlld>

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.

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Datatype: "Max35Binary" on page 467

10.1.11.8.3 Name < Nm>

Presence: [0..1]

Definition: Name of the Cryptographic Element.

Datatype: "Max256Text" on page 522

10.1.11.8.4 SecurityProfile <SctyPrfl>

Presence: [0..1]

Definition: Identification of the set of security elements to which this element belongs.

Datatype: "Max35Text" on page 523

10.1.11.8.5 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 523

10.1.11.8.6 Version < Vrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max256Text" on page 522

10.1.11.8.7 Type <Tp>

Presence: [0..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 486

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).

10.1.11.8.8 Function <Fctn>

Presence: [0..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 493

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.

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10.1.11.8.9 ActivationDate <ActvtnDt>

Presence: [0..1]

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

Datatype: "ISODateTime" on page 517

10.1.11.8.10 DeactivationDate <DeactvtnDt>

Presence: [0..1]

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

Datatype: "ISODateTime" on page 517

10.1.11.8.11 KeyValue <KeyVal>

Presence: [0..1]

Definition: Encrypted cryptographic key.

KeyValue <KeyVal> contains the following elements (see "ContentInformationType30" on page 430 for

details)

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	ContentType < <i>CnttTp</i> >	[11]	CodeSet		431
	EnvelopedData < EnvlpdData>	[01]	±		431
	AuthenticatedData < AuthntcdData >	[01]	±		432
	SignedData < SgndData>	[01]	±		433
	DigestedData < DgstdData >	[01]	±		434

10.1.11.8.12 KeyCheckValue <KeyChckVal>

Presence: [0..1]

Definition: Value for checking a cryptographic key security parameter.

Datatype: "Max35Binary" on page 467

10.1.11.8.13 AdditionalManagementInformation <AddtIMgmtInf>

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

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(Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
		Name <nm></nm>	[11]	Text		441
		Value < Val>	[01]	Text		441

10.1.11.8.13.1 Name < Nm>

Presence: [1..1]

Definition: Name of the generic information to exchange.

Datatype: "Max70Text" on page 525

10.1.11.8.13.2 Value <Val>

Presence: [0..1]

Definition: Value of the generic information to exchange.

Datatype: "Max140Text" on page 522

10.1.11.9 AlgorithmIdentification30

Definition: Identification of a cryptographic algorithm and parameters for digital signatures.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		442
	Parameter < Param>	[01]			443
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		444
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]			445
	Algorithm <i><algo></algo></i>	[11]	CodeSet		445
	Parameter < Param>	[01]			445
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		445
	SaltLength <saltlngth></saltlngth>	[01]	Quantity		446
	TrailerField < TrlrFld>	[01]	Quantity		446
	OIDCurveName < OIDCrvNm>	[01]	Text		446

10.1.11.9.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the algorithm.

Datatype: "Algorithm25Code" on page 474

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).
ERS3	SHA3-256WithRSA	Signature algorithms with RSA, using SHA3-256 digest algorithm. (ASN.1 Object Identifier: id-rsassa-pkcs1-v1-5-with-sha3-256).
ED32	EcdsaSha3-256	Elliptic Curve Digital Signature Algorithm coupled with SHA3-256 Digest Algorithm.
ED33	EcdsaSha3-384	Elliptic Curve Digital Signature Algorithm coupled with SHA3-384 Digest Algorithm.

CodeName	Name	Definition
ED35	EcdsaSha3-512	Elliptic Curve Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ED23	EcdsaSha384	Elliptic Curve Digital Signature Algorithm coupled with SHA2-384 Digest Algorithm.
ED25	EcdsaSha512	Elliptic Curve Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ES22	EcsdsaSha256	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-256 Digest Algorithm.
ES32	EcsdaSha3-256	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA3-256 Digest Algorithm.
ES33	EcsdsaSha3-384	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA3-384 Digest Algorithm.
ES35	EcsdsaSha3-512	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ES23	EcsdsaSha384	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-384 Digest Algorithm.
ES25	EcsdsaSha512	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ED22	EcdsaSha256	Elliptic Curve Digital Signature Algorithm coupled with SHA2-256 Digest Algorithm.

10.1.11.9.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters of the RSASSA-PSS digital signature algorithm (RSA signature algorithm with

443

appendix: Probabilistic Signature Scheme).

Parameter <Param> contains the following Parameter15 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		444
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]			445
	Algorithm < Algo>	[11]	CodeSet		445
	Parameter < Param >	[01]			445
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		445
	SaltLength <saltlngth></saltlngth>	[01]	Quantity		446
	TrailerField < <i>TrlrFld</i> >	[01]	Quantity		446
	OIDCurveName < OIDCrvNm>	[01]	Text		446

10.1.11.9.2.1 DigestAlgorithm < DgstAlgo>

Presence: [0..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 469

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: idsha1).
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		Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

10.1.11.9.2.2 MaskGeneratorAlgorithm < MskGnrtrAlgo>

Presence: [0..1]

Definition: Mask generator function cryptographic algorithm and parameters.

MaskGeneratorAlgorithm <MskGnrtrAlgo> contains the following AlgorithmIdentification12

elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		445
	Parameter < Param>	[01]			445
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		445

10.1.11.9.2.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 475

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA igital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

10.1.11.9.2.2.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the mask generator function cryptographic algorithm.

Parameter <Param> contains the following Parameter5 elements

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		445

10.1.11.9.2.2.2.1 DigestAlgorithm < DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm11Code" on page 468

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: idsha1).

10.1.11.9.2.3 SaltLength <SaltLngth>

Presence: [0..1]

Definition: Length of the salt to include in the signature.

Datatype: "Number" on page 519

10.1.11.9.2.4 TrailerField <TrlrFld>

Presence: [0..1]

Definition: Trailer field number.

Datatype: "Number" on page 519

10.1.11.9.2.5 OIDCurveName < OIDCrvNm>

Presence: [0..1]

Definition: Name of the Elliptic Curve according to the OID notation.

Datatype: "Max140Text" on page 522

10.1.11.10 AlgorithmIdentification29

Definition: Cryptographic algorithm and parameters for the protection of the transported key.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		446
	Parameter < Param>	[01]			448
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		449
	InitialisationVector < InitlstnVctr>	[01]	Binary		449
	BytePadding <bpddg></bpddg>	[01]	CodeSet		449

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10.1.11.10.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the algorithm.

Datatype: "Algorithm24Code" on page 472

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 - 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.

CodeName	Name	Definition
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: descbc).
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).

10.1.11.10.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the encryption algorithm.

Parameter <Param> contains the following Parameter12 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		449
	InitialisationVector < InitlstnVctr>	[01]	Binary		449
	BytePadding <bpddg></bpddg>	[01]	CodeSet		449

10.1.11.10.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat2Code" on page 489

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.
1238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

10.1.11.10.2.2 InitialisationVector <InitIstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 467

10.1.11.10.2.3 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 481

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.

10.1.11.11 AlgorithmIdentification22

Definition: Identification of a cryptographic algorithm and parameters for the MAC computation.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		450
	Parameter <param/>	[01]			452
	InitialisationVector < InitlstnVctr>	[01]	Binary		452
	BytePadding < <i>BPddg</i> >	[01]	CodeSet		452

10.1.11.11.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the MAC algorithm.

Datatype: "Algorithm17Code" on page 470

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

CodeName	Name	Definition
		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 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.

CodeName	Name	Definition
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 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).

10.1.11.11.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the MAC algorithm.

Parameter <Param> contains the following Parameter7 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	InitialisationVector < InitlstnVctr>	[01]	Binary		452
	BytePadding < <i>BPddg</i> >	[01]	CodeSet		452

10.1.11.11.2.1 InitialisationVector <InitIstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

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Datatype: "Max500Binary" on page 467

10.1.11.11.2.2 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 481

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.

10.1.11.12 AlgorithmIdentification21

Definition: Cryptographic algorithm and parameters of digests.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm <i><algo></algo></i>	[11]	CodeSet		453

10.1.11.12.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 469

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: idsha1).
SH31	SHA3-224	Message digest algorithm SHA3-224 as defined in FIPS 202 - (ASN.1 Object Identifier: id-sha3-224).

CodeName	Name	Definition
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).

10.1.11.13 AlgorithmIdentification19

Definition: Cryptographic algorithms and parameters for the protection of transported keys by an asymmetric key.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		454
	Parameter < Param>	[01]			454
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		455
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		455
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]	±		456

10.1.11.13.1 Algorithm <Algo>

Presence: [1..1]

Definition: Asymmetric encryption algorithm of a transport key.

Datatype: "Algorithm7Code" on page 475

CodeName	Name	Definition
ERSA	RSAEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSAO	RSAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

10.1.11.13.2 Parameter < Param>

Presence: [0..1]

Definition: Parameters of the encryption algorithm.

Parameter <Param> contains the following Parameter10 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	EncryptionFormat <ncrptnfrmt></ncrptnfrmt>	[01]	CodeSet		455
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		455
	MaskGeneratorAlgorithm < MskGnrtrAlgo>	[01]	±		456

10.1.11.13.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat2Code" on page 489

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.
1238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

10.1.11.13.2.2 DigestAlgorithm < DgstAlgo>

Presence: [0..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm16Code" on page 469

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: idsha1).
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).

10.1.11.13.2.3 MaskGeneratorAlgorithm < MskGnrtrAlgo>

Presence: [0..1]

Definition: Mask generator function cryptographic algorithm and parameters.

MaskGeneratorAlgorithm < MskGnrtrAlgo > contains the following elements (see

"AlgorithmIdentification18" on page 456 for details)

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		456
	Parameter < <i>Param</i> >	[01]			457
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		457

10.1.11.14 AlgorithmIdentification18

Definition: Mask generator function cryptographic algorithm and parameters.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Algorithm < Algo>	[11]	CodeSet		456
	Parameter < <i>Param</i> >	[01]			457
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		457

10.1.11.14.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 475

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA igital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

10.1.11.14.2 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=""></xml>	Mult.	Туре	Constr. No.	Page
	DigestAlgorithm < DgstAlgo>	[01]	CodeSet		457

10.1.11.14.2.1 DigestAlgorithm < DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm16Code" on page 469

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: idsha1).
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).

Structured Postal Address 10.1.12

10.1.12.1 PostalAddress2

Definition: Address of a party expressed in a formal structure, usually according to the country's postal services specifications.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StreetName <strtnm></strtnm>	[01]	Text		458
	PostCodeIdentification < PstCdId>	[11]	Text		458
	TownName < TwnNm>	[11]	Text		458
	CountrySubDivision < CtrySubDvsn>	[01]	Text		458
	Country < Ctry>	[11]	CodeSet	C3	458

10.1.12.1.1 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 525

10.1.12.1.2 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 522

10.1.12.1.3 TownName < TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 523

10.1.12.1.4 CountrySubDivision <CtrySubDvsn>

Presence: [0..1]

Definition: Identifies a subdivision of a country for example, state, region, county.

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Datatype: "Max35Text" on page 523

10.1.12.1.5 Country < Ctry>

Presence: [1..1]

Definition: Nation with its own government.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 485

Constraints

Country

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

10.1.13 Synchronisation

10.1.13.1 ProcessRetry3

Definition: Definition of retry process if activation of an action fails.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	Delay < Dely>	[11]	Text		459
	MaximumNumber < MaxNb>	[01]	Quantity		459
	UnitOfTime < UnitOfTm>	[01]	CodeSet		459

10.1.13.1.1 Delay <Dely>

Presence: [1..1]

Definition: Time period to wait for a retry in months, days, hours and minutes, leading zeros could be

omitted.

Datatype: "Max9NumericText" on page 526

10.1.13.1.2 MaximumNumber <MaxNb>

Presence: [0..1]

Definition: Maximum number of retries.

Datatype: "Number" on page 519

10.1.13.1.3 UnitOfTime <UnitOfTm>

Presence: [0..1]

Definition: Identification of the minimum unit of time used by time configuration parameters.

Datatype: "TimeUnit1Code" on page 515

CodeName	Name	Definition
DAYC	CalendarDay	Time unit is calendar day.
HOUR	Hour	Time unit is hour.
MINU	Minute	Time unit is minute.
MNTH	Month	Time unit is month.
SECO	Second	Time unit is second.
WEEK	Week	Time unit is week.
YEAR	Year	Time unit is year.

10.1.13.2 ProcessTiming6

Definition: Parameters defining the timing conditions to process an action.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	StartTime <starttm></starttm>	[01]	DateTime		460
	EndTime < <i>EndTm</i> >	[01]	DateTime		460
	Period < <i>Prd</i> >	[01]	Text		460
	UnitOfTime < UnitOfTm>	[01]	CodeSet		460

10.1.13.2.1 StartTime <StartTm>

Presence: [0..1]

Definition: Date and time to start the action.

Datatype: "ISODateTime" on page 517

10.1.13.2.2 EndTime < EndTm>

Presence: [0..1]

Definition: Date and time after which the action cannot be processed.

Datatype: "ISODateTime" on page 517

10.1.13.2.3 Period <Prd>

Presence: [0..1]

Definition: Period delay between cyclic action activation in months, days, hours and minutes, leading

zeros could be omitted.

Datatype: "Max9NumericText" on page 526

10.1.13.2.4 UnitOfTime <UnitOfTm>

Presence: [0..1]

Definition: Identification of the minimum unit of time used by time configuration parameters.

Datatype: "TimeUnit1Code" on page 515

CodeName	Name	Definition
DAYC	CalendarDay	Time unit is calendar day.
HOUR	Hour	Time unit is hour.
MINU	Minute	Time unit is minute.
MNTH	Month	Time unit is month.
SECO	Second	Time unit is second.
WEEK	Week	Time unit is week.
YEAR	Year	Time unit is year.

10.1.13.3 ProcessTiming5

Definition: Parameters defining the timing conditions to process an action.

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	WaitingTime < <i>WtgTm</i> >	[01]	Text		461
	StartTime < <i>StartTm</i> >	[01]	DateTime		461
	EndTime < <i>EndTm</i> >	[01]	DateTime		461
	Period < <i>Prd</i> >	[01]	Text		461
	MaximumNumber < MaxNb>	[01]	Quantity		461
	UnitOfTime < UnitOfTm>	[01]	CodeSet		461

10.1.13.3.1 WaitingTime < WtgTm>

Presence: [0..1]

Definition: Waiting time after the previous action in months, days, hours and minutes, leading zeros

could be omitted.

Datatype: "Max9NumericText" on page 526

10.1.13.3.2 StartTime <StartTm>

Presence: [0..1]

Definition: Date and time to start the action.

Datatype: "ISODateTime" on page 517

10.1.13.3.3 EndTime <EndTm>

Presence: [0..1]

Definition: Date and time after which the action cannot be processed.

Datatype: "ISODateTime" on page 517

10.1.13.3.4 Period < Prd>

Presence: [0..1]

Definition: Period delay between cyclic action activation in months, days, hours and minutes, leading

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zeros could be omitted.

Datatype: "Max9NumericText" on page 526

10.1.13.3.5 MaximumNumber < MaxNb>

Presence: [0..1]

Definition: Maximum number of cyclic calls.

Datatype: "Number" on page 519

10.1.13.3.6 UnitOfTime <UnitOfTm>

Presence: [0..1]

Definition: Identification of the minimum unit of time used by time configuration parameters.

Datatype: "TimeUnit1Code" on page 515

CodeName	Name	Definition
DAYC	CalendarDay	Time unit is calendar day.
HOUR	Hour	Time unit is hour.
MINU	Minute	Time unit is minute.
MNTH	Month	Time unit is month.
SECO	Second	Time unit is second.
WEEK	Week	Time unit is week.
YEAR	Year	Time unit is year.

10.1.14 Token

10.1.14.1 Token1

Definition: Unencrypted sensitive data of a token.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	PaymentToken < PmtTkn>	[01]	Text		462
	TokenExpiryDate < TknXpryDt>	[01]	Text		462
	TokenRequestorIdentification < TknRqstrld>	[01]	Text		462
	TokenAssuranceData < TknAssrncData >	[01]	Text		463
	TokenAssuranceMethod < TknAssrncMtd>	[01]	Text		463
	TokenInitiatedIndicator < TknInittdInd>	[01]	Indicator		463

10.1.14.1.1 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Surrogate value of the PAN.

Datatype: "Max19NumericText" on page 522

10.1.14.1.2 TokenExpiryDate <TknXpryDt>

Presence: [0..1]

Definition: Expiry date of the payment token.

ISO 8583 bit 14.

Datatype: "Exact4NumericText" on page 521

10.1.14.1.3 TokenRequestorIdentification <TknRqstrld>

Presence: [0..1]

Definition: Identification of a party requesting a token.

Datatype: "Max11NumericText" on page 521

10.1.14.1.4 TokenAssuranceData <TknAssrncData>

Presence: [0..1]

Definition: Supporting information for the Token Assurance Method.

Datatype: "Max140Text" on page 522

10.1.14.1.5 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 523

10.1.14.1.6 TokenInitiatedIndicator <TknInittdInd>

Presence: [0..1]

Definition: Original transaction was initiated by Token.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

10.1.14.2 MerchantToken2

Definition: Merchant token information.

Or	MessageElement< <i>XML Tag</i> >	Mult.	Туре	Constr. No.	Page
	Token < <i>Tkn</i> >	[01]	Text		463
	TokenExpiryDate < TknXpryDt>	[01]	Text		464
	TokenCharacteristic < TknChrtc>	[0*]	Text		464
	TokenRequestor < TknRqstr>	[01]			464
	ProviderIdentification < Prvdrld>	[11]	Text		464
	RequestorIdentification < Rqstrld>	[11]	Text		464
	TokenAssuranceLevel < TknAssrncLvl>	[01]	Quantity		464
	TokenAssuranceData < TknAssrncData>	[01]	Binary		464
	TokenAssuranceMethod < TknAssrncMtd>	[01]	Text		465
	TokenInitiatedIndicator < TknInittdInd>	[01]	Indicator		465

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10.1.14.2.1 Token <Tkn>

Presence: [0..1]

Definition: Surrogate value of the PAN. Datatype: "Max35Text" on page 523

10.1.14.2.2 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 521

10.1.14.2.3 TokenCharacteristic <TknChrtc>

Presence: [0..*]

Definition: Additional payment token information.

Datatype: "Max35Text" on page 523

10.1.14.2.4 TokenRequestor <TknRqstr>

Presence: [0..1]

Definition: Identifier of a token provider requestor.

TokenRequestor <TknRqstr> contains the following PaymentTokenIdentifiers1 elements

Or	MessageElement <xml tag=""></xml>	Mult.	Туре	Constr. No.	Page
	ProviderIdentification < Prvdrld>	[11]	Text		464
	RequestorIdentification < Rqstrld>	[11]	Text		464

10.1.14.2.4.1 ProviderIdentification < Prvdrld>

Presence: [1..1]

Definition: Identifier of the token provider.

Datatype: "Max35Text" on page 523

10.1.14.2.4.2 RequestorIdentification <Rqstrld>

Presence: [1..1]

Definition: Identifier of the token requestor.

Datatype: "Max35Text" on page 523

10.1.14.2.5 TokenAssuranceLevel <TknAssrncLvl>

Presence: [0..1]

Definition: Level of confidence resulting of the identification and authentication of the cardholder

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performed and the entity that performed it.

Datatype: "Number" on page 519

10.1.14.2.6 TokenAssuranceData < TknAssrncData >

Presence: [0..1]

Definition: Information about the identification and verification of the cardholder.

Datatype: "Max500Binary" on page 467

10.1.14.2.7 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 523

10.1.14.2.8 TokenInitiatedIndicator <TknInittdInd>

Presence: [0..1]

Definition: Original transaction was initiated by Token.

Datatype: One of the following values must be used (see "TrueFalseIndicator" on page 519):

• Meaning When True: True

· Meaning When False: False

10.2 Message Datatypes

10.2.1 Amount

10.2.1.1 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

10.2.2 Binary

10.2.2.1 Max10000Binary

Definition: Specifies a binary string with a maximum length of 10000 binary bytes.

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Type: Binary

Format

minLength 1 10000

10.2.2.2 Max100KBinary

Definition: Binary data of 100K maximum.

Type: Binary

Format

minLength 1

maxLength 102400

10.2.2.3 Max10KBinary

Definition: Binary data of 10K maximum.

Type: Binary

Format

minLength 1

maxLength 10240

10.2.2.4 Max140Binary

Definition: Specifies a binary string with a maximum length of 140 binary bytes.

Type: Binary

Format

minLength

maxLength 140

10.2.2.5 Max2KBinary

Definition: Binary data of 2K maximum.

Type: Binary

Format

minLength 1

maxLength 2048

10.2.2.6 Max2MBBinary

Definition: Binary data of 2MB maximum.

Type: Binary

Format

minLength 1

maxLength 2097152

10.2.2.7 Max3000Binary

Definition: Specifies a binary string with a maximum length of 3000 binary bytes.

Type: Binary

Format

minLength 1

maxLength 3000

10.2.2.8 Max35Binary

Definition: Specifies a binary string with a maximum length of 35 binary bytes.

Type: Binary

Format

minLength 1 maxLength 35

10.2.2.9 Max5000Binary

Definition: Specifies a binary string with a maximum length of 5000 binary bytes.

Type: Binary

Format

minLength

maxLength 5000

10.2.2.10 Max500Binary

Definition: Specifies a binary string with a maximum length of 500 binary bytes.

Type: Binary

Format

minLength 1

maxLength 500

10.2.2.11 Min1Max256Binary

Definition: Specifies a binary string with a minimum length of 1 byte, and a maximum length of 256

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bytes.

Type: Binary

Format

minLength 1

maxLength 256

10.2.2.12 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

10.2.3 CodeSet

10.2.3.1 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.

10.2.3.2 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.

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10.2.3.3 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: idsha1).

10.2.3.4 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: idsha1).
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		Message digest algorithm SHAKE-256 as defined in FIPS 202 - (ASN.1 Object Identifier: id-shake256).

10.2.3.5 Algorithm17Code

Definition: Cryptographic algorithms for the MAC (Message Authentication Code).

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.

CodeName	Name	Definition
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 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

CodeName	Name	Definition
		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).

10.2.3.6 Algorithm24Code

Definition: Cryptographic algorithms for the protection of transported keys.

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

CodeName	Name	Definition
		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 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

CodeName	Name	Definition
		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: descbc).
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).

10.2.3.7 Algorithm25Code

Definition: Cryptographic algorithms for digital signatures.

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).
ERS3	SHA3-256WithRSA	Signature algorithms with RSA, using SHA3-256 digest algorithm. (ASN.1 Object Identifier: id-rsassa-pkcs1-v1-5-with-sha3-256).
ED32	EcdsaSha3-256	Elliptic Curve Digital Signature Algorithm coupled with SHA3-256 Digest Algorithm.
ED33	EcdsaSha3-384	Elliptic Curve Digital Signature Algorithm coupled with SHA3-384 Digest Algorithm.

CodeName	Name	Definition
ED35	EcdsaSha3-512	Elliptic Curve Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ED23	EcdsaSha384	Elliptic Curve Digital Signature Algorithm coupled with SHA2-384 Digest Algorithm.
ED25	EcdsaSha512	Elliptic Curve Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ES22	EcsdsaSha256	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-256 Digest Algorithm.
ES32	EcsdaSha3-256	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA3-256 Digest Algorithm.
ES33	EcsdsaSha3-384	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA3-384 Digest Algorithm.
ES35	EcsdsaSha3-512	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ES23	EcsdsaSha384	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-384 Digest Algorithm.
ES25	EcsdsaSha512	Elliptic Curve Schnorr Digital Signature Algorithm coupled with SHA2-512 Digest Algorithm.
ED22	EcdsaSha256	Elliptic Curve Digital Signature Algorithm coupled with SHA2-256 Digest Algorithm.

10.2.3.8 Algorithm7Code

Definition: Asymmetric encryption algorithm of a transport key.

Type: CodeSet

CodeName	Name	Definition
ERSA	RSAEncryption	RSA encryption algorithm - (ASN.1 Object Identifier: rsaEncryption).
RSAO	RSAES-OAEP	RSA encryption scheme based on Optimal Asymmetric Encryption scheme (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-RSAES-OAEP).

10.2.3.9 Algorithm8Code

Definition: Mask generator functions of the RSAES-OAEP encryption algorithm (RSA Encryption Scheme: Optimal Asymmetric Encryption Padding).

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CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA igital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

10.2.3.10 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.

10.2.3.11 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.

10.2.3.12 AttributeType1Code

Definition: Type of attribute of a distinguished name (DN).

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-atorganizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-atorganizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

10.2.3.13 AttributeType2Code

Definition: Attributes of certificate extensions.

Type: CodeSet

CodeName	Name	Definition
EMAL	EmailAddress	Email address of the certificate subject.
CHLG	ChallengePassword	Password by which an entity may request certificate revocation.

10.2.3.14 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.

10.2.3.15 AuthenticationMethod6Code

Definition: Methods used to authenticate a person or a card.

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.

CodeName	Name	Definition
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.
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.

10.2.3.16 AuthenticationMethod8Code

Definition: Method to authenticate the customer or its card.

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.

CodeName	Name	Definition
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.
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.

10.2.3.17 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.

CodeName	Name	Definition
UCRP	WithoutCryptogram	Authentication succeeded without a cryptogram.

10.2.3.18 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.
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.

10.2.3.19 BatchTransactionType1Code

Definition: Type of transactions to include in a batch transfer.

Type: CodeSet

CodeName	Name	Definition
DTCT	DebitCredit	Debit and credit transactions.
CNCL	Cancellation	Cancellation of a previous transaction.
FAIL	Failed	Failed transactions.
DCLN	Declined	Declined transactions.

10.2.3.20 BusinessArea1Code

Definition: Specifies the business context of the transaction

CodeName	Name	Definition
AIBD	ArtificialIntelligenceBasedDecision	The payment is initiated by an artificial intelligence based decision.

CodeName	Name	Definition
ОРМТ	Openpayment	The card is used in a Transit business case where the fare amount is not known when the transaction is initiated.
PPAY	PlainPayment	The card is used to perform a plain payment.
TKNF	TransitKnownFare	The card is used in a Transit business case where the fare amount is known when the transaction is initiated.

10.2.3.21 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.

10.2.3.22 CancellationProcess2Code

Definition: Configuration of the exchanges to perform the cancellation of a payment transaction.

CodeName	Name	Definition
ADVC	Advice	Card payment transaction may be cancelled by an advice only before closure of the reconciliation period or before the capture by batch.
NALW	NotAllowed	Card payment transaction cannot be cancelled by the acquirer.
REQU	Request	Card payment transaction may also be cancelled after the closure of the reconciliation period or after the capture by batch. In this case a cancellation request exchange is required.
APPL	ApplicationLevel	Cancellation of the Card payment transaction is defined by the payment application.

10.2.3.23 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.

10.2.3.24 CardDataReading8Code

Definition: Type of reading of the card data.

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.)

10.2.3.25 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.

10.2.3.26 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.

CodeName	Name	Definition
NOVF	NoCapabilities	No cardholder verification capability.
OTHR	Other	Other cardholder verification capabilities.

10.2.3.27 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.

10.2.3.28 CardPaymentServiceType10Code

Definition: Requested certificate management service.

Type: CodeSet

CodeName	Name	Definition
CRTC	CreateCertificate	Creation of an X.509 certificate with the public key and the information of the owner of the asymmetric key provided by the requestor.
CRTR	RenewCerificate	Renewal of an X.509 certificate, protected by the certificate to renew.
CRTK	RevokeCertificate	Revocation of an active X.509 certificate.
WLSR	RemoveWhiteList	Remove a POI from the white list of the terminal manager.
WLSA	AddWhiteList	Add a POI in the white list of the terminal manager.

10.2.3.29 CardProductType1Code

Definition: Type of card product.

Type: CodeSet

CodeName	Name	Definition
СОММ	CommercialCard	Cards issued as a means of business expenditure, for instance business card

CodeName	Name	Definition
		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.

10.2.3.30 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.

10.2.3.31 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: idenvelopedData).
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

10.2.3.32 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).

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).

10.2.3.33 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).

10.2.3.34 DataSetCategory10Code

Definition: Maintenance services provided by a terminal manager.

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.
MTMG	MasterTerminalManager	The terminal manager is the master.

CodeName	Name	Definition
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
MTOR	Monitoring	Monitoring of the terminal estate.
SCPR	SecurityParameters	Point of interaction parameters related to the security of software application and application protocol.
SWPK	SoftwareModule	Software module.
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.

10.2.3.35 DataSetCategory16Code

Definition: Maintenance service to delegate.

Type: CodeSet

CodeName	Name	Definition
ACQP	AcquirerProtocolParameters	Configuration parameters of the payment acquirer protocol.
APPR	ApplicationParameters	Payment application specific configuration parameters for the point of interaction (POI) system.
APSB	ApplicationParametersSubsetCreation	Creation of a subset of the configuration parameters of an application.
KDWL	KeyDownload	Download of cryptographic keys with the related information.
KMGT	KeyManagement	Activate, deactivate or revoke loaded cryptographic keys.
RPRT	Reporting	Reporting on activity, status and error of a point of interaction.
SWPK	SoftwareModule	Software module.
TMSP	TMSProtocolParameters	Configuration parameters for the TMS protocol.
MRPR	MerchantParameters	Merchant configuration parameters for the point of interaction (POI).
TRPR	TerminalParameters	Point of interaction parameters attached to the terminal as serial number or physical capabilities.
CRTF	CertificateParameters	Certificate provided by a terminal manager.
SACP	SaleComponent	Component of the Sale system.
SAPR	SaleToPOIProtocolParameters	Parameters related to the Sale to POI protocol.

CodeName	Name	Definition
LOGF	LogFile	Any repository used for recording log traces.
RPFL	ReportFile	Report file generated by the POI.
CONF	ConfigurationFile	Configuration file relevant for the POI.
SPRP	ServiceProviderParameters	Service Provider specific parameters for the point of interaction (POI) system.

10.2.3.36 DataSetCategory17Code

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.

CodeName	Name	Definition
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.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

10.2.3.37 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.

10.2.3.38 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.
1238	ISO20038KeyWrap	Format of a cryptographic key specified by the ISO20038 standard.

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10.2.3.39 ExchangePolicy2Code

Definition: Exchange policy between parties.

Type: CodeSet

CodeName	Name	Definition
ONDM	OnDemand	Exchange is performed if requested by the acquirer in a previous exchange, or at any time by the acceptor.
IMMD	Immediately	Exchange is performed just after the transaction completion.
ASAP	AsSoonAsPossible	As soon as the acquirer is contacted, for example with the next on-line transaction.
AGRP	AsGroup	Exchanges are performed after reaching a maximum number of transaction or time period.
NBLT	NumberLimit	Exchange is performed after reaching a number of transactions without exchanges with the acquirer.
TTLT	TotalLimit	Exchange is performed after reaching a cumulative amount of transactions without exchanges with the acquirer.
CYCL	Cyclic	Cyclic exchanges based on the related time conditions.
NONE	None	No exchange.
BLCK	Blocking	All pending process must be paused until exchange is exclusively performed just after the transaction completion.

10.2.3.40 Exemption1Code

Definition: Strong customer authentication exemption.

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.
TRAE	TransactionRiskAnalysisExemption	According to the transaction risk analysis the strong customer authentication is not mandated.
PKGE	TransportFareOrParkingFeeUnattendedPayme ntExemption	Payment is processed in a environment where strong customer authentication is inappropriate.

CodeName	Name	Definition
TMBE	, ,	Cardholder has enrolled the Card Acceptor in the exemption list of strong customer authentication.

10.2.3.41 FinancialCapture1Code

Definition: Mode for the financial capture of the transaction by the acquirer.

Type: CodeSet

CodeName	Name	Definition
AUTH	Authorisation	Financial capture of the transaction is performed by the acquirer during the authorisation exchange.
COMP	Completion	Financial capture of the transaction is performed by the acquirer during the completion exchange.
втсн	Batch	Financial capture of the transaction is performed by the acquirer at the reception of a batch transfer.

10.2.3.42 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 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.

CodeName	Name	Definition
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.

10.2.3.43 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 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.

10.2.3.44 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}

10.2.3.45 KeyUsage1Code

Definition: Allowed usages of the key.

Type: CodeSet

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

10.2.3.46 LanguageCode

Definition: Specifies a language.

Constraints

ValidationByTable

Must be a valid terrestrial language.

10.2.3.47 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.

10.2.3.48 LocationCategory4Code

Definition: Indicates the type of integration of the POI terminal in the sale environment.

Type: CodeSet

CodeName	Name	Definition
ABRD	Aboard	Aboard is used when the sale is done in a vehicle (e.g a bus, train, ship, airplane, taxi, etc).
NMDC	Nomadic	Nomadic is used when the merchant is
		traveling to different locations (e.g fair or
		sport events, home delivery, food truck).
FIXD	PhysicalShop	Fixed location, for example in a shop.
VIRT	VirtualShop	Virtual Shop is used for any ecommerce solution.

10.2.3.49 LoyaltyHandling1Code

Definition: Possible types of Loyalty processing.

Type: CodeSet

CodeName	Name	Definition
ALLO		The loyalty is accepted, but the POI has not to require or ask a loyalty card. The

CodeName	Name	Definition
		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.

10.2.3.50 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.

10.2.3.51 MessageFunction43Code

Definition: Type of message supporting a service.

CodeName	Name	Definition
FAUQ	FinancialAuthorisationRequest	Request for authorisation with financial capture.
CCAQ	CancellationRequest	Request for cancellation.
CMPV	CompletionAdvice	Advice for completion without financial capture.
DGNP	DiagnosticRequest	Request for diagnostic.
RCLQ	ReconciliationRequest	Request for reconciliation.
CCAV	CancellationAdvice	Advice for cancellation.

CodeName	Name	Definition
втсн	BatchTransfer	Transfer the financial data as a collection of transction.
FRVA	FinancialReversalAdvice	Advice for reversal with financial capture.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
FCMV	FinancialCompletionAdvice	Advice for completion with financial capture.
DCCQ	CurrencyConversionRequest	Request for dynamic currency conversion.
RVRA	ReversalAdvice	Advice for reversal without financial capture.
DCAV	CurrencyConversionAdvice	Advice for dynamic currency conversion.
TRNA	TransactionAdvice	Advise of the transaction's processing.
NFRQ	NonFinancialRequest	Initiator of the message requests additional information to the receiver.
TRPQ	TransactionReportRequest	Request to receive of a report of transaction from the issuer to the receiver.

10.2.3.52 MessageItemCondition1Code

Definition: Rule to apply for the presence of a message item.

Type: CodeSet

CodeName	Name	Definition
MNDT	Mandatory	Message item must be present.
CFVL	ConfiguredValue	Message item must be present with the configured value.
DFLT	DefaultValue	Message item has the configured value if the item is absent.
ALWV	AllowedValues	Message item must have one of the configured values.
IFAV	IfAvailable	Message item has to be present if available.
COPY	Сору	Message item is present if it was present in a previous related message with the same value.
UNSP	NotSupported	Message item is not supported and has to be absent.

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10.2.3.53 NetworkType1Code

Definition: Type of communication network.

CodeName	Name	Definition
IPNW	InternetProtocol	Protocol of an IP network.
PSTN	PublicTelephone	Protocol of a Public Switched Telephone Network (PSTN).

10.2.3.54 NetworkType2Code

Definition: Type of proxy.

Type: CodeSet

CodeName	Name	Definition
SCK5	Sock5	Sock5 proxy.
SCK4	Sock4	Sock4 proxy.
HTTP	НТТР	HTTP proxy.

10.2.3.55 NonFinancialRequestType1Code

Definition: Type of non financial request that could be processed between an Acceptor and an Intermediary Agent or an Acquirer.

Type: CodeSet

CodeName	Name	Definition
ACQR	AcquirerSelection	According to several parameters of a transaction, an Intermediary Agent helps an Acceptor to identify the more relevant Acquirer to process the transaction.
PARQ	ParRequest	The Intermediary Agent or Acquirer provides the PaymentAccountReference to use to process the transaction.
RISK	RiskManagement	The Intermediary Agent or Acquirer helps the Acceptor to assess the risk management of the transaction.
TOKN	TokenRequest	The Intermediary Agent or Acquirer provides the token to use to process the transaction.

10.2.3.56 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.

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10.2.3.57 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.

10.2.3.58 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.

10.2.3.59 PartyType15Code

Definition: Party involved by the data set.

Type: CodeSet

CodeName	Name	Definition
PGRP	POIGroup	Configuration to apply to a subset of the whole POI system.
PSYS	POISystem	Configuration to apply to the whole POI system.
PSNG	SinglePOI	Configuration to apply to a single POI terminal.

10.2.3.60 PartyType33Code

Definition: Identification of the type of entity involved in a transaction.

CodeName	Name	Definition
OPOI		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	DelegateIssuer	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.

10.2.3.61 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	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.

10.2.3.62 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.

CodeName	Name	Definition
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.

10.2.3.63 PartyType5Code

Definition: Identification of the type of entity involved in a maintenance operation.

Type: CodeSet

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACQR	Acquirer	Entity acquiring card transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
MTMG	MasterTerminalManager	Responsible for the maintenance of a card payment acceptance terminal.
TMGT	TerminalManager	Responsible for one or several maintenance functions of a card payment acceptance terminal.

10.2.3.64 PartyType7Code

Definition: Party that communicate with a POI component (Point of Interaction), using a communication device.

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.

10.2.3.65 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.

10.2.3.66 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.
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.

10.2.3.67 POICommunicationType2Code

Definition: Low level communication of the hardware or software component toward another component or an external entity.

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.

CodeName	Name	Definition
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.

10.2.3.68 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.
CERT	Certification	Certification number delivered by a certification body.
EVAL	Evaluation	Evaluation by a lab or a tool.

10.2.3.69 POIComponentStatus1Code

Definition: Status of a component belonging to a POI Terminal (Point of Interaction).

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.

10.2.3.70 POIComponentType6Code

Definition: Type of component belonging to a POI (Point of Interaction) Terminal.

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.
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.

CodeName	Name	Definition
SOFT	Soft	Payment or other software application.
CONF	ConfigurationFile	Configuration file relevant for the POI.
RPFL	ReportFile	Report file generated by the POI.

10.2.3.71 ProcessingPosition2Code

Definition: Specifies the processing position.

Type: CodeSet

CodeName	Name	Definition
AFTE	After	Specifies that the transaction/instruction is to be executed after the linked transaction/instruction.
WITH	With	Specifies that the transaction/instruction is to be executed with the linked transaction/instruction.
BEFO	Before	Specifies that the transaction/instruction is to be executed before the linked transaction/instruction.
INFO	Information	Specifies that the transactions/ instructions are linked for information purposes only.

10.2.3.72 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.

10.2.3.73 QRCodeErrorCorrection1Code

Definition: Error Correction mode of Quick Response Code.

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%

10.2.3.74 ReconciliationCriteria1Code

Definition: Available criterion to group transactions when a reconliation is made.

Type: CodeSet

CodeName	Name	Definition
BRND	CardBrand	The set is defined by transactions made with cards belonging to the same brand.
PROF	CardProductProfile	The set is defined by transactions made with cards sharing the same CardProductProfile.
GRUP	PoiGroup	The set is defined by transactions processed by POIs identified with the same POIGroup.

10.2.3.75 RejectReason2Code

Definition: Reason of transmission of a rejection message in response to a request or an advice.

Type: CodeSet

CodeName	Name	Definition
UNPR	UnableToProcess	Not possible to process the message, for instance the security module is unavailable, the hardware is unavailable, or there is a problem of resource.
IMSG	InvalidMessage	Invalid envelope of the message.
PARS	ParsingError	Invalid message: At least one of the data element or data structure is not present, the format, or the content of one data element or one data structure is not correct.
SECU	Security	Security error (for example an invalid key or an incorrect MAC value).
INTP	InitiatingParty	Invalid identification data for the sender.
RCPP	RecipientParty	Invalid identification data for the the receiver.
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.

10.2.3.76 ResourceAction1Code

Definition: Type of action to perform on a media resource.

CodeName	Name	Definition
PAUS	Pause	Pause the media resource in progress as specified in the message.
STAS	Play	Start the media resource as specified in the message.

CodeName	Name	Definition
LOOP	PlayInLoop	Play in a loop the media resource as specified in the message.
RESU	Resume	Resume the progress of the media resource as specified in the message.
DVOL	SetDefaultVolume	Set the default volume of sounds.
STOS	Stop	Stop the media resource in progress.

10.2.3.77 ResourceType1Code

Definition: Type of resource.

Type: CodeSet

CodeName	Name	Definition
TEXT	TextToSpeech	Voice synthesis.
URLI	UniformResourceIdentifier	String of characters that unambiguously identifies a particular resource.

10.2.3.78 Response11Code

Definition: Result of the processing of the message

Type: CodeSet

CodeName	Name	Definition
WARN	Warning	An additional Response Code, mainly a functional one, should be considered to identify the outcome of the request.
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.
SUCC	Success	Processing OK. Information related to the result of the processing is contained in other parts of the response message.

10.2.3.79 Response2Code

Definition: Response to a request of service.

Type: CodeSet

CodeName	Name	Definition
APPR	Approved	Service has been successfuly provided.
DECL	Declined	Service is declined.

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10.2.3.80 ResponseMode2Code

Definition: Message response awaited by the initiator of the Request.

Type: CodeSet

CodeName	Name	Definition
SEND	EndOfPlay	The Response is required at the end of play.
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.

10.2.3.81 ResultDetail3Code

Definition: Detail of the response.

Type: CodeSet

CodeName	Name	Definition
CRTU	UnknownCertificate	The certificate is unknown.
SVSU	UnsupportedService	Requested service not supported.

10.2.3.82 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.
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).

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CodeName	Name	Definition
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.

10.2.3.83 RetailerService8Code

Definition: List of specific services for DeviceRequest.

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.

CodeName	Name	Definition
DCAQ	DeviceSendApplicationProtocolDataUnitCardRe aderRequest	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.

10.2.3.84 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.
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	DeviceSendApplicationProtocolDataUnitCardRe aderResponse	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.

10.2.3.85 SaleCapabilities1Code

Definition: Hardware capabilities of the Sale Terminal.

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

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.
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.
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.

10.2.3.86 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).

10.2.3.87 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.

10.2.3.88 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.

10.2.3.89 StoredValueAccountType1Code

Definition: Type of stored value account.

CodeName	Name	Definition
BNKA	BankPrepaidAccount	Prepaid account managed by a financial institution for low income customers.
CWVC	CarwashVoucher	Car wash specific account.
СРҮА	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.

CodeName	Name	Definition
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.

10.2.3.90 SupportedPaymentOption2Code

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).
INSI	IssuerInstalment	The sender support IssuerInstalment proposals to the Cardholder.
PINQ	PINRequest	The sender is able to support Single Tap transaction.

10.2.3.91 TerminalManagementAction3Code

Definition: Type of action to perform.

Type: CodeSet

CodeName	Name	Definition
CREA	Create	Request to create or add the element identified inside the message exchange.
DELT	Delete	Request to delete the element identified inside the message exchange.
UPDT	Update	Request to update the element identified inside the message exchange.

10.2.3.92 TerminalManagementAction5Code

Definition: Types of terminal management action to be performed by a point of interaction.

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.

CodeName	Name	Definition
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.
DEVR	DeviceRequest	Request to execute a device request.

10.2.3.93 TerminalManagementActionResult5Code

Definition: Final result of the processed terminal management action.

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.
WARN	SuccessWithWarning	Action was performed but some warnings arose.
SYNE	SyntaxError	Data transferred has a wrong syntax.
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.

CodeName	Name	Definition
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.
SUCC	Success	Action was successfully performed.

10.2.3.94 TerminalManagementActionTrigger1Code

Definition: Event to start a terminal management action by the point of interaction (POI).

Type: CodeSet

CodeName	Name	Definition
DATE	DateTime	Date and time trigger the terminal management action.
HOST	HostEvent	Acquirer triggers the terminal management action.
MANU	Manual	Acceptor triggers the terminal management action.
SALE	SaleEvent	Sale system triggers the terminal management action.

10.2.3.95 TerminalManagementAdditionalProcess1Code

Definition: Additional process to perform before starting or after a terminal management action by the point of interaction (POI).

CodeName	Name	Definition
MANC	ManualConfirmation	Manual confirmation of the merchant before the terminal management action.
RCNC	Reconciliation	Acquirer reconciliation to be performed before the terminal management action.
RSRT	RestartSystem	Restart the system after performing the terminal management action.

10.2.3.96 TerminalManagementErrorAction2Code

Definition: Action to perform in case of error during the maintenance action in progress.

Type: CodeSet

CodeName	Name	Definition
SDSR	SendStatusReport	Send a status report immediately.
STOP	StopSequence	Stop the current sequence of terminal management actions without any action, and do not notice the error with a status report.

10.2.3.97 TimeUnit1Code

Definition: Unit of time associated with the contract.

Type: CodeSet

CodeName	Name	Definition
DAYC	CalendarDay	Time unit is calendar day.
HOUR	Hour	Time unit is hour.
MINU	Minute	Time unit is minute.
MNTH	Month	Time unit is month.
SECO	Second	Time unit is second.
WEEK	Week	Time unit is week.
YEAR	Year	Time unit is year.

10.2.3.98 TrackFormat1Code

Definition: Use to identify format of a track on a card or other documents like checks.

CodeName	Name	Definition
AAMV	AAMVAFormat	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.

10.2.3.99 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.
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.

10.2.3.100 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.

10.2.3.101 TypeOfAmount8Code

Definition: Qualifies the amount associated with the transaction.

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.
RESD	Reserved	Reserved or updated reserved amount for reservation.

10.2.3.102 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.

10.2.3.103 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.

10.2.4 Date

10.2.4.1 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

10.2.5 DateTime

10.2.5.1 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.

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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

10.2.6 IdentifierSet

10.2.6.1 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.

10.2.6.2 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}

10.2.6.3 IBAN2007Identifier

Definition: The International Bank Account Number is a code used internationally by financial institutions to uniquely identify the account of a customer at a financial institution as described in the 2007 edition of the ISO 13616 standard "Banking and related financial services - International Bank Account Number (IBAN)" and replaced by the more recent edition of the standard.

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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.

10.2.6.4 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}

10.2.7 Indicator

10.2.7.1 TrueFalseIndicator

Definition: A flag indicating a True or False value.

Type: Indicator

Meaning When True: True
Meaning When False: False

10.2.8 Quantity

10.2.8.1 DecimalNumber

Definition: Number of objects represented as a decimal number, for example 0.75 or 45.6.

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Type: Quantity

Format

totalDigits 18 fractionDigits 17

10.2.8.2 Number

Definition: Number of objects represented as an integer.

Type: Quantity

Format

totalDigits 18 fractionDigits 0

10.2.8.3 PositiveNumber

Definition: Number of objects represented as a positive integer.

Type: Quantity

Format

minInclusive 1
totalDigits 18
fractionDigits 0

10.2.9 Rate

10.2.9.1 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

10.2.10 Text

10.2.10.1 Exact3AlphaNumericText

Definition: Specifies an alphanumeric string with a length of exact 3 characters.

520

Type: Text

Format

pattern [a-zA-Z0-9]{3}

10.2.10.2 Exact3NumericText

Definition: Specifies a numeric string with an exact length of 3 digits.

Type: Text

Format

pattern [0-9]{3}

10.2.10.3 Exact4NumericText

Definition: Specifies a numeric string with an exact length of 4 digits.

Type: Text

Format

pattern [0-9]{4}

10.2.10.4 Max1025Text

Definition: Specifies a character string with a maximum length of 1025 characters.

Type: Text

Format

minLength 1

maxLength 1025

10.2.10.5 Max104Text

Definition: Specifies a character string with a maximum length of 104 characters.

Type: Text

Format

minLength 1

maxLength 104

10.2.10.6 Max10Text

Definition: Specifies a character string with a maximum length of 10 characters.

Type: Text

Format

minLength 1

maxLength 10

10.2.10.7 Max11NumericText

Definition: Specifies a numeric string with a maximum length of 11 digits.

521

Type: Text

Format

pattern [0-9]{1,11}

10.2.10.8 Max140Text

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

Type: Text

Format

1 minLength

maxLength 140

10.2.10.9 Max15NumericText

Definition: Specifies a numeric string with a maximum length of 15 digits.

Type: Text

Format

pattern [0-9]{1,15}

10.2.10.10 Max16Text

Definition: Specifies a character string with a maximum length of 16 characters.

Type: Text

Format

minLength 1

maxLength 16

10.2.10.11 Max19NumericText

Definition: Specifies a numeric string with a maximum length of 19 digits.

Type: Text

Format

[0-9]{1,19} pattern

10.2.10.12 Max20000Text

Definition: Specifies a character string with a maximum length of 20, 000 characters.

Type: Text

Format

minLength 1

20000 maxLength

10.2.10.13 Max256Text

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

522

Type: Text

Format

minLength 1 maxLength 256

10.2.10.14 Max2NumericText

Definition: Specifies a numeric string with a maximum length of 2 digits.

Type: Text

Format

pattern [0-9]{1,2}

10.2.10.15 Max30Text

Definition: Specifies a character string with a maximum length of 30 characters.

Type: Text

Format

maxLength 30

10.2.10.16 Max350Text

Definition: Specifies a character string with a maximum length of 350 characters.

Type: Text

Format

minLength 1 maxLength 350

10.2.10.17 Max35NumericText

Definition: Specifies a numeric string with a maximum length of 35 digits.

Type: Text

Format

pattern [0-9]{1,35}

10.2.10.18 Max35Text

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

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Type: Text

Format

minLength 1

maxLength 35

10.2.10.19 Max37Text

Definition: Specifies a character string with a maximum length of 37 characters.

Type: Text

Format

minLength 1 maxLength 37

10.2.10.20 Max3Text

Definition: Specifies a character string with a maximum length of 3 characters.

Type: Text

Format

minLength 1 maxLength 3

10.2.10.21 Max45Text

Definition: Specifies a character string with a maximum length of 45 characters.

Type: Text

Format

minLength 1 maxLength 45

10.2.10.22 Max500Text

Definition: Specifies a character string with a maximum length of 500 characters.

Type: Text

Format

minLength 1 maxLength 500

10.2.10.23 Max5NumericText

Definition: Specifies a numeric string with a maximum length of 5 digits.

Type: Text

Format

pattern [0-9]{1,5}

10.2.10.24 Max6Text

Definition: Specifies a character string with a maximum length of 6 characters.

Type: Text

Format

minLength 1 maxLength 6

10.2.10.25 Max70Text

Definition: Specifies a character string with a maximum length of 70characters.

Type: Text

Format

minLength 1
maxLength 70

10.2.10.26 Max76Text

Definition: Specifies a character string with a maximum length of 76 characters.

Type: Text

Format

minLength 1 maxLength 76

10.2.10.27 Max8000Text

Definition: Specifies a character string with a maximum length of 8000 characters.

Type: Text

Format

minLength 1 8000

10.2.10.28 Max8Text

Definition: Specifies a character string with a maximum length of 8 characters.

525

Type: Text

Format

minLength 1 maxLength 8

10.2.10.29 Max9NumericText

Definition: Specifies a numeric string with a maximum length of 9 digits.

Type: Text

Format

pattern [0-9]{1,9}

10.2.10.30 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}

10.2.10.31 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}

10.2.10.32 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

10.2.10.33 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}

10.2.10.34 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}

10.2.11 Time

10.2.11.1 ISOTime

Definition: A particular point in the progression of time in a calendar day expressed in either UTC time format (hh:mm:ss.sssZ), local time with UTC offset format (hh:mm:ss.sss+/-hh:mm), or local time format (hh: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.

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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.

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Type: Time