

ISO 20022

Acquirer to Issuer Card Messages (ATICA)

Message Definition Report - Part 2

Approved by the Cards and Related Retail Financial Services SEG

This document provides details of the Message Definitions for Acquirer to Issuer Card Messages (ATICA).

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1 Message Set Overview

Introduction

Messages that support any card related Automated Teller Machine (ATM) transactions and services between an ATM equipment and an ATM acquirer. These services include cash withdrawals, kiosk functions and card account management transactions.

1.1 List of MessageDefinitions

The following table lists all MessageDefinitions described in this book.

MessageDefinition	Definition
cain.001.001.01 AcquirerAuthorisationInitiation	The AcquirerAuthorisationInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the approval of a card transaction.
cain.002.001.01 AcquirerAuthorisationResponse	The AcquirerAuthorisationResponse message is sent by an issuer or an agent to answer to an AcquirerAuthorisationInitiation message.
cain.003.001.01 AcquirerFinancialInitiation	The AcquirerFinancialInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the approval and the clearing of a card transaction.
cain.004.001.01 AcquirerFinancialResponse	The AcquirerFinancialResponse message is sent by an issuer or an agent to answer to an AcquirerFinancialInitiation message.
cain.005.001.01 AcquirerReversalInitiation	The AcquirerReversalInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the reversal of a card transaction.
cain.006.001.01 AcquirerReversalResponse	The AcquirerReversalResponse message is sent by an issuer or an agent to answer to an AcquirerReversalInitiation message.
cain.007.001.01 ReconciliationInitiation	The ReconciliationInitiation message is sent by an acquirer or an agent to an issuer or an agent, to initiate an exchange of totals to be reconciled for debits, credits, chargebacks and other transactions.
cain.008.001.01 ReconciliationResponse	The ReconciliationResponse message is sent by an issuer or an agent to return the reconciled totals for debits, credits, chargebacks and other transactions.
cain.009.001.01 NetworkManagementInitiation	The NetworkManagementInitiation message covers the range of activities to control the operating condition of the network and may be initiated by any party to an acquirer, an issuer or an agent.
cain.010.001.01 NetworkManagementResponse	The NetworkManagementResponse message is sent by an acquirer, an issuer or an agent to answer to an NetworkManagementInitiation message.
cain.011.001.01 KeyExchangeInitiation	The KeyExchangeInitiation message is sent by any party to an acquirer, an issuer or an agent, to initiate a cryptographic key exchange.
cain.012.001.01 KeyExchangeResponse	The KeyExchangeResponse message is sent by an acquirer, an issuer or an agent to answer to a

MessageDefinition	Definition
	KeyExchangeInitiation message and complete a cryptographic key exchange.
cain.013.001.01 AcquirerRejection	The AcquirerRejection message is sent by any party, to reject an Acquirer to Issuer message.

2 cain.001.001.01

AcquirerAuthorisationInitiation

2.1 MessageDefinition Functionality

The AcquirerAuthorisationInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the approval of a card transaction.

Outline

The AcquirerAuthorisationInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

A. Header

Information related to the protocol management.

B. AuthorisationInitiation

Information related to the authorisation initiation.

C. SecurityTrailer

Trailer of the message containing a MAC.

It corresponds patially to ISO 8583 field number 53, completed by the field number 64 or 128.

2.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <AcqrrAuthstnInitn>	[1..1]			
	Header <Hdr>	[1..1]			9
	MessageFunction <MsgFctn>	[1..1]	CodeSet		9
	ProtocolVersion <PrctolVrsn>	[1..1]	Text		10
	ExchangeIdentification <XchgId>	[1..1]	Text		11
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		11
	CreationDateTime <CreDtTm>	[1..1]	DateTime		11
	InitiatingParty <InitgPty>	[1..1]	±		11
	RecipientParty <RcptPty>	[0..1]	±		11
	Traceability <Tracblt>	[0..*]			12
	RelayIdentification <RlayId>	[1..1]	±		12
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		12
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		13
	AuthorisationInitiation <AuthstnInitn>	[1..1]			13
	Environment <Envnt>	[1..1]			15
	Acquirer <Acqrr>	[1..1]	±		15
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		15
	Acceptor <Accptr>	[0..1]	±		15
	Terminal <Termnl>	[0..1]	±		16
	Card <Card>	[1..1]	±		16
	CustomerDevice <CstmrDvc>	[0..1]	±		17
	Wallet <Wllt>	[0..1]	±		17
	PaymentToken <PmtTkn>	[0..1]	±		18
	Cardholder <Crdhldr>	[0..1]	±		18
	ProtectedCardholderData <PrctcdCrdhldrData>	[0..1]	±		20
	Context <Cntxt>	[1..1]			20
	TransactionContext <TxCntxt>	[1..1]	±		20
	SaleContext <SaleCntxt>	[0..1]	±		21
	Transaction <Tx>	[1..1]			22
	TransactionType <TxTp>	[1..1]	CodeSet		22

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		23
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		24
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		24
	Reconciliation <Rcncltn>	[0..1]	±		25
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		25
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		25
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		25
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		25
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		26
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		26
	OriginalTransaction <OrgnlTx>	[0..1]	±		26
	TransactionDetails <TxDtls>	[1..1]	±		26
	AuthorisationResult <AuthstnRslt>	[0..1]	±		29
	SecurityTrailer <SctyTrlr>	[0..1]			30
	ContentType <CnttTp>	[1..1]	CodeSet		30
	AuthenticatedData <AuthntcdData>	[1..1]	±		31

2.3 Constraints

C1 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters. (Algorithm)

C2 Country

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

C3 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN. (Algorithm)

C4 ValidationByTable

(Algorithm)

C5 ValidationByTable

(Algorithm)

2.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

2.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		9
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		10
	ExchangeIdentification <XchgId>	[1..1]	Text		11
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		11
	CreationDateTime <CreDtTm>	[1..1]	DateTime		11
	InitiatingParty <InitgPty>	[1..1]	±		11
	RecipientParty <RcptPty>	[0..1]	±		11
	Traceability <Tracblt>	[0..*]			12
	RelayIdentification <RlayId>	[1..1]	±		12
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		12
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		13

2.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.

CodeName	Name	Definition
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

2.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

2.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

2.4.1.4 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

2.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

2.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

2.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

2.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		12
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		12
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		13

2.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

2.4.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

2.4.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

2.4.2 AuthorisationInitiation <AuthstnInitn>

Presence: [1..1]

Definition: Information related to the authorisation initiation.

AuthorisationInitiation <AuthstnInitn> contains the following **AcquirerAuthorisationInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			15
	Acquirer <Acqrr>	[1..1]	±		15
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		15
	Acceptor <Accptr>	[0..1]	±		15
	Terminal <Termnl>	[0..1]	±		16
	Card <Card>	[1..1]	±		16
	CustomerDevice <CstmrDvc>	[0..1]	±		17
	Wallet <Wlft>	[0..1]	±		17
	PaymentToken <PmtTkn>	[0..1]	±		18
	Cardholder <Crhdldr>	[0..1]	±		18
	ProtectedCardholderData <PrtctdCrhdldrData>	[0..1]	±		20
	Context <Cntxt>	[1..1]			20
	TransactionContext <TxCntxt>	[1..1]	±		20
	SaleContext <SaleCntxt>	[0..1]	±		21
	Transaction <Tx>	[1..1]			22
	TransactionType <TxTp>	[1..1]	CodeSet		22
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		23
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		24
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		24
	Reconciliation <Rcncltn>	[0..1]	±		25
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		25
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		25
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		25
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		25
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		26
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		26
	OriginalTransaction <OrgnlTx>	[0..1]	±		26
	TransactionDetails <TxDtls>	[1..1]	±		26
	AuthorisationResult <AuthstnRslt>	[0..1]	±		29

2.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[1..1]	±		15
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		15
	Acceptor <Accptr>	[0..1]	±		15
	Terminal <Termnl>	[0..1]	±		16
	Card <Card>	[1..1]	±		16
	CustomerDevice <CstmrDvc>	[0..1]	±		17
	Wallet <Wlt>	[0..1]	±		17
	PaymentToken <PmtTkn>	[0..1]	±		18
	Cardholder <Crhdldr>	[0..1]	±		18
	ProtectedCardholderData <PrctcdCrhdldrData>	[0..1]	±		20

2.4.2.1.1 Acquirer <Acqrr>

Presence: [1..1]

Definition: Acquirer of the card transaction.

Acquirer <Acqrr> contains the following elements (see "Acquirer6" on page 410 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		411
	Issuer <Issr>	[0..1]	Text		411
	CountryCode <CtryCd>	[0..1]	CodeSet		411

2.4.2.1.2 CardSchemeIdentification <CardSchmeld>

Presence: [0..1]

Definition: Identification of the interconnected card scheme from which the request is coming.

Datatype: "Max35Text" on page 471

2.4.2.1.3 Acceptor <Accptr>

Presence: [0..1]

Definition: Acceptor performing the card transaction.

Acceptor <Acptr> contains the following elements (see "Organisation18" on page 407 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		408
	CommonName <CmonNm>	[1..1]	Text		408
	Location <Lctn>	[1..1]	±		408
	SelectedLanguage <SelctdLang>	[0..1]	CodeSet		409
	SchemeData <SchmeData>	[0..1]	Text		409

2.4.2.1.4 Terminal <Termnl>

Presence: [0..1]

Definition: Payment terminal or ATM performing the transaction.

Terminal <Termnl> contains the following elements (see "CardAcceptorTerminal1" on page 376 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		376
	Location <Lctn>	[0..1]			376
	AddressLine <AdrLine>	[0..2]	Text		377
	StreetName <StrtNm>	[0..1]	Text		377
	BuildingNumber <BldgNb>	[0..1]	Text		377
	PostCode <PstCd>	[0..1]	Text		377
	TownName <TwnNm>	[1..1]	Text		377
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		377
	Country <Ctry>	[1..1]	CodeSet		378
	Capabilities <Cpblties>	[1..1]	±		378

2.4.2.1.5 Card <Card>

Presence: [1..1]

Definition: Card performing the transaction.

Card <Card> contains the following elements (see "PaymentCard12" on page 416 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		416
	PlainCardData <PlainCardData>	[0..1]			416
	PAN <PAN>	[1..1]	Text		417
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		417
	EffectiveDate <FctvDt>	[0..1]	Text		417
	ExpiryDate <XpryDt>	[0..1]	Text		417
	ServiceCode <SvcCd>	[0..1]	Text		417
	TrackData <TrckData>	[0..*]			418
	TrackNumber <TrckNb>	[0..1]	Text		418
	TrackValue <TrckVal>	[1..1]	Text		418
	CardholderName <CrdhldrNm>	[0..1]	Text		418
	IssuerBIN <IssrBIN>	[0..1]	Text		418
	CardCountryCode <CardCtryCd>	[0..1]	Text		418
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		418
	AdditionalCardData <AddtlCardData>	[0..1]	Text		418

2.4.2.1.6 CustomerDevice <CstmrDvc>

Presence: [0..1]

Definition: Container of tenders used by the customer to perform the payment.

CustomerDevice <CstmrDvc> contains the following elements (see "CustomerDevice1" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

2.4.2.1.7 Wallet <Wllt>

Presence: [0..1]

Definition: Container of tenders used by the customer to perform the payment.

Wallet <Wlt> contains the following elements (see "CustomerDevice1" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

2.4.2.1.8 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "CardPaymentToken4" on page 411 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		411
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		412
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		412
	TokenCharacteristic <TknChrtc>	[0..*]	Text		412
	TokenRequestor <TknRqstr>	[0..1]			412
	ProviderIdentification <PrvdrlId>	[1..1]	Text		412
	RequestorIdentification <RqstrId>	[1..1]	Text		412
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		412
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		413

2.4.2.1.9 Cardholder <Crhdldr>

Presence: [0..1]

Definition: Cardholder involved in the card transaction.

It correspond partially to the ISO 8583:2003, field number 49-71.

Cardholder <Crdhldr> contains the following elements (see "Cardholder9" on page 364 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		366
	Name <Nm>	[0..1]	Text		366
	Language <Lang>	[0..1]	CodeSet		366
	BillingAddress <BllgAdr>	[0..1]			367
	AddressLine <AdrLine>	[0..2]	Text		367
	StreetName <StrtNm>	[0..1]	Text		367
	BuildingNumber <BldgNb>	[0..1]	Text		367
	PostCode <PstCd>	[0..1]	Text		367
	TownName <TwnNm>	[1..1]	Text		367
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		368
	Country <Ctry>	[1..1]	CodeSet		368
	ShippingAddress <ShppgAdr>	[0..1]			368
	AddressLine <AdrLine>	[0..2]	Text		368
	StreetName <StrtNm>	[0..1]	Text		368
	BuildingNumber <BldgNb>	[0..1]	Text		368
	PostCode <PstCd>	[0..1]	Text		369
	TownName <TwnNm>	[1..1]	Text		369
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		369
	Country <Ctry>	[1..1]	CodeSet		369
	Authentication <Authntcn>	[0..*]			369
	AuthenticationMethod <AuthntcnMtd>	[1..1]	CodeSet		370
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		371
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		371
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			371
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		371
	PINFormat <PINFrmt>	[1..1]	CodeSet		372
	AdditionalInput <AddtlInpt>	[0..1]	Text		372
	CardholderIdentification <CrdhldrId>	[0..1]	±		372
	AddressVerification <AdrVrfctn>	[0..1]			373
	AddressDigits <AdrDgts>	[0..1]	Text		373
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		373

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			373
	Method <Mtd>	[1..1]	CodeSet		374
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		375
	Result <Rslt>	[0..1]	CodeSet		375
	AdditionalResult <AddtlRslt>	[0..1]	Text		375
	PersonalData <PrsnlData>	[0..1]	Text		376

2.4.2.1.10 ProtectedCardholderData <PrctcdCrdhldrData>

Presence: [0..1]

Definition: Protection of cardholder sensitive data by a digital envelope using a cryptographic key.

ProtectedCardholderData <PrctcdCrdhldrData> contains the following elements (see "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

2.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed.

Context <Cntxt> contains the following **CardTransactionContext1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		20
	SaleContext <SaleCntxt>	[0..1]	±		21

2.4.2.2.1 TransactionContext <TxCntxt>

Presence: [1..1]

Definition: Context of the card transaction.

TransactionContext <TxCntxt> contains the following elements (see "[CardTransactionContext2](#)" on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardPresent <CardPres>	[0..1]	Indicator		359
	CardholderPresent <CrdhldrPres>	[0..1]	Indicator		359
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		360
	AttendanceContext <AttnDncCntxt>	[0..1]	CodeSet		360
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		360
	HostingCategory <HstgCtgy>	[0..1]	CodeSet		360
	TransactionChannel <TxChanl>	[0..1]	CodeSet		361
	CardDataEntryMode <CardDataNtryMd>	[1..1]	CodeSet		361
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		362
	SupportedOption <SpprtOptn>	[0..*]	CodeSet		362
	SpecialConditions <SpclConds>	[0..*]			362
	Program <Prgm>	[1..1]	Text		363
	Value <Val>	[0..1]	Text		363
	RiskIndicator <RskInd>	[0..*]			363
	Reason <Rsn>	[0..*]	CodeSet		363
	Level <Lv>	[1..1]	Quantity		364
	RecommendedAction <RcmmnddActn>	[0..*]	CodeSet		364

2.4.2.2.2 SaleContext <SaleCntxt>

Presence: [0..1]

Definition: Context of the sale involving the card payment transaction.

SaleContext <SaleCntxt> contains the following elements (see "[SaleContext1](#)" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleIdentification <SaleId>	[0..1]	Text		388
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		388
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		388
	CashierIdentification <CshrId>	[0..1]	Text		388
	ShiftNumber <ShftNb>	[0..1]	Text		388
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		388

2.4.2.3 Transaction <Tx>

Presence: [1..1]

Definition: Card transaction for which the authorisation is requested.

Transaction <Tx> contains the following **CardTransaction15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		22
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		23
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		24
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		24
	Reconciliation <Rcncltn>	[0..1]	±		25
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		25
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		25
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		25
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		25
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		26
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		26
	OriginalTransaction <OrgnlTx>	[0..1]	±		26
	TransactionDetails <TxDtls>	[1..1]	±		26
	AuthorisationResult <AuthstnRslt>	[0..1]	±		29

2.4.2.3.1 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583 field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.

CodeName	Name	Definition
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

2.4.2.3.2 AdditionalService <AddtlSvc>

Presence: [0..*]

Definition: Service in addition to the main service.

It correspond partially to the ISO 8583:2003 field number 22-3.

Datatype: "CardPaymentServiceType8Code" on page 445

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
CSHB	CashBack	Card payment with cash-back.
CSWD	ChosenWithdrawal	Amount and notes values are chosen by the customer.
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.

CodeName	Name	Definition
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.
AUWS	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel (amount could be absent).
PFWD	ProfileWithdrawal	Amount and Notes Values are pre-defined by the customer profile.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
SDWD	StandardWithdrawal	Customer pressed a button associated with a withdrawal of unique amount and notes mix.
VCAU	VoiceAuthorisation	Voice authorisation.
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.
INST	Instant	Instant transaction

2.4.2.3.3 ServiceAttribute <SvcAttr>

Presence: [0..1]

Definition: Additional attribute of the service type.

It correspond partially to the ISO 8583:2003 field number 22-3.

Datatype: "CardPaymentServiceType3Code" on page 444

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

2.4.2.3.4 MerchantCategoryCode <MrchntCtgyCd>

Presence: [0..1]

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

It correspond to the ISO 8583 field number 18 for the version 87, field numbers 18 and 26 for the version 93, and field number 26 for the version 2003.

Datatype: "Min3Max4NumericText" on page 473

2.4.2.3.5 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see ["TransactionIdentifier2"](#) on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

2.4.2.3.6 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583 field number 12.

Datatype: ["ISODatetime"](#) on page 467

2.4.2.3.7 AcceptorTransactionIdentification <AccptrTxId>

Presence: [1..1]

Definition: Unique transaction identification generated by the acceptor or the acquirer transported unchanged by the acquirer from the card acceptor to the issuer. It is used to assist locating the original source information. Eventually it could be included in the cardholder statement. It corresponds to ISO 8583, field 37 and CAPE data element TransactionIdentification/TransactionReference.

Datatype: ["Max35Text"](#) on page 471

2.4.2.3.8 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: ["Max35Text"](#) on page 471

2.4.2.3.9 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: ["Max35Text"](#) on page 471

2.4.2.3.10 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>*Presence:* [0..1]*Definition:* Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003, field number 21.

Datatype: "Number" on page 469**2.4.2.3.11 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>***Presence:* [0..1]*Definition:* Total number of transactions under the same life cycle transaction sequence number.*Datatype:* "Number" on page 469**2.4.2.3.12 OriginalTransaction <OrgnlTx>***Presence:* [0..1]*Definition:* Identification of the original transaction.

It corresponds to ISO 8583 field number 90 for the version 87, and field number 56 for the other versions.

OriginalTransaction <OrgnlTx> contains the following elements (see "CardTransaction3" on page 357 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		357
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		358
	InitiatorIdentification <InitrId>	[1..1]	Text		358

2.4.2.3.13 TransactionDetails <TxDtls>*Presence:* [1..1]*Definition:* Details of the card transaction.

TransactionDetails <TxDtIs> contains the following elements (see "CardTransactionDetail1" on page 332 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			335
	TotalAmount <TtlAmt>	[1..1]	Amount		336
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		336
	CardholderBillingTransactionAmount <CrhdldrBllgTxAmt>	[0..1]			336
	Amount <Amt>	[1..1]	Amount		337
	ExchangeRate <XchgRate>	[1..1]	Rate		337
	QuotationDate <QtnDt>	[0..1]	DateTime		337
	Label <Lbl>	[0..1]	Text		337
	DetailedAmount <DtldAmt>	[0..*]			337
	Type <Tp>	[1..1]	CodeSet		338
	AdditionalType <AddtlTp>	[0..1]	Text		338
	Amount <Amt>	[1..1]	Amount		338
	Label <Lbl>	[0..1]	Text		338
	AdditionalAmounts <AddtlAmts>	[0..*]			339
	Type <Tp>	[1..1]	CodeSet		339
	AdditionalType <AddtlTp>	[0..1]	Text		340
	Amount <Amt>	[1..1]	Amount		340
	Label <Lbl>	[0..1]	Text		340
	MessageReason <MsgRsn>	[0..1]	CodeSet		340
	ValidityDate <VldtyDt>	[0..1]	Date		342
	UnattendedLevelCategory <UattnddLvlCtgy>	[0..1]	Text		342
	AccountFrom <AcctFr>	[0..1]			342
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		343
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		344
	AccountName <AcctNm>	[0..1]	Text		344
	AccountOwner <AcctOwnr>	[0..1]			344
	Name <Nm>	[1..1]	Text		345
	Address <Adr>	[1..1]	±		345
	AccountIdentifier <AcctIdr>	[0..1]			345
{Or	Card <Card>	[1..1]	Text		346

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	MSISDN <MSISDN>	[1..1]	Text		346
Or	EMail <EMail>	[1..1]	Text		346
Or	IBAN <IBAN>	[1..1]	IdentifierSet		346
Or	BBAN <BBAN>	[1..1]	IdentifierSet		346
Or	UPIC <UPIC>	[1..1]	IdentifierSet		347
Or	Domestic <Dmst>	[1..1]	Text		347
Or}	Other <Othr>	[1..1]	Text		347
	Servicer <Svcr>	[0..1]			347
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		347
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		347
	AccountTo <AcctTo>	[0..1]			348
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		348
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		349
	AccountName <AcctNm>	[0..1]	Text		350
	AccountOwner <AcctOwnr>	[0..1]			350
	Name <Nm>	[1..1]	Text		350
	Address <Adr>	[1..1]	±		350
	AccountIdentifier <AcctIdr>	[0..1]			350
{Or	Card <Card>	[1..1]	Text		351
Or	MSISDN <MSISDN>	[1..1]	Text		351
Or	EMail <EMail>	[1..1]	Text		351
Or	IBAN <IBAN>	[1..1]	IdentifierSet		351
Or	BBAN <BBAN>	[1..1]	IdentifierSet		351
Or	UPIC <UPIC>	[1..1]	IdentifierSet		352
Or	Domestic <Dmst>	[1..1]	Text		352
Or}	Other <Othr>	[1..1]	Text		352
	Servicer <Svcr>	[0..1]			352
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		352
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		352
	Instalment <Instlmt>	[0..1]	±		353
	AntiMoneyLaundering <AML>	[0..1]			353

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SenderName <SndrNm>	[0..1]	Text		354
	SenderAddress <SndrAdr>	[0..1]			354
	AddressLine <AdrLine>	[0..2]	Text		355
	StreetName <StrtNm>	[0..1]	Text		355
	BuildingNumber <BldgNb>	[0..1]	Text		355
	PostCode <PstCd>	[0..1]	Text		355
	TownName <TwnNm>	[1..1]	Text		355
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		355
	Country <Ctry>	[1..1]	CodeSet		356
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		356
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		356
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		356
	PassportIssuingCountry <PsptIssgCtry>	[0..1]	Text		356
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		356
	TaxCountry <TaxCtry>	[0..1]	Text		356
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		356
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		357
	ReceiverName <RcvrNm>	[0..1]	Text		357
	TransactionReference <TxRef>	[0..1]	Text		357
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		357

2.4.2.3.14 AuthorisationResult <AuthstnRsIt>

Presence: [0..1]

Definition: Outcome of the authorisation.

AuthorisationResult <AuthstnRslt> contains the following elements (see "AuthorisationResult7" on page 328 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			329
	Identification <Id>	[0..1]	Text		329
	Type <Tp>	[1..1]	CodeSet		329
	Issuer <Issr>	[0..1]	CodeSet		330
	Country <Ctry>	[0..1]	Text		330
	ShortName <ShrtNm>	[0..1]	Text		330
	TransactionResponse <TxRspn>	[1..1]	±		331
	AuthorisationCode <AuthstnCd>	[0..1]	Text		331
	AdditionalInformation <AddtlInf>	[0..*]			331
	Destination <Dstn>	[1..1]	CodeSet		331
	Format <Frmt>	[0..1]	CodeSet		331
	Content <Cntt>	[1..1]	Text		332

2.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

It corresponds partially to ISO 8583 field number 53, completed by the field number 64 or 128.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		30
	AuthenticatedData <AuthntcdData>	[1..1]	±		31

2.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

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

2.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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AcquirerAuthorisationResponse

3.1 MessageDefinition Functionality

The AcquirerAuthorisationResponse message is sent by an issuer or an agent to answer to an AcquirerAuthorisationInitiation message.

Outline

The AcquirerAuthorisationResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. AuthorisationResponse
Information related to the response of an authorisation.
- C. SecurityTrailer
Trailer of the message containing a MAC.

3.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <AcqrrAuthstnRspn>	[1..1]			
	Header <Hdr>	[1..1]			34
	MessageFunction <MsgFctn>	[1..1]	CodeSet		35
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		36
	ExchangeIdentification <XchgId>	[1..1]	Text		36
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		36
	CreationDateTime <CreDtTm>	[1..1]	DateTime		37
	InitiatingParty <InitgPty>	[1..1]	±		37
	RecipientParty <RcptPty>	[0..1]	±		37
	Traceability <Tracblt>	[0..*]			37
	RelayIdentification <RlayId>	[1..1]	±		38
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		38
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		38
	AuthorisationResponse <AuthstnRspn>	[1..1]			38
	Environment <Envnt>	[1..1]			39
	AcquirerIdentification <Acqrrld>	[1..1]	Text		40
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		40
	AcceptorIdentification <Accptrld>	[0..1]	Text		40
	TerminalIdentification <Termnlld>	[0..1]	Text		40
	Card <Card>	[1..1]	±		41
	PaymentToken <PmtTkn>	[0..1]	±		41
	ShippingAddress <ShppgAdr>	[0..1]			41
	AddressLine <AdrLine>	[0..2]	Text		42
	StreetName <StrtNm>	[0..1]	Text		42
	BuildingNumber <BldgNb>	[0..1]	Text		42
	PostCode <PstCd>	[0..1]	Text		42
	TownName <TwnNm>	[1..1]	Text		42
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		42
	Country <Ctry>	[1..1]	CodeSet	C3	43
	Context <Cntxt>	[0..1]			43

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		43
	Transaction <Tx>	[0..1]	±		43
	SecurityTrailer <SctyTrlr>	[0..1]			44
	ContentType <CnttTp>	[1..1]	CodeSet		44
	AuthenticatedData <AuthntcdData>	[1..1]	±		45

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. (Algorithm)

C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters. (Algorithm)

C3 Country

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

C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN. (Algorithm)

C5 ValidationByTable

(Algorithm)

3.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

3.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		35
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		36
	ExchangeIdentification <XchgId>	[1..1]	Text		36
	ReTransmissionCounter <ReTrnsmssnCnt>	[0..1]	Text		36
	CreationDateTime <CreDtTm>	[1..1]	DateTime		37
	InitiatingParty <InitgPty>	[1..1]	±		37
	RecipientParty <RcptPty>	[0..1]	±		37
	Traceability <Tracblt>	[0..*]			37
	RelayIdentification <RlayId>	[1..1]	±		38
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		38
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		38

3.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.

CodeName	Name	Definition
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTV	NetworkManagementRequest	Request of a network management service.

3.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

3.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

3.4.1.4 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

3.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

3.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

3.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

3.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		38
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		38
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		38

3.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

3.4.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

3.4.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

3.4.2 AuthorisationResponse <AuthstnRspn>

Presence: [1..1]

Definition: Information related to the response of an authorisation.

AuthorisationResponse <AuthstnRspn> contains the following **AcquirerAuthorisationResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			39
	AcquirerIdentification <Acqrrld>	[1..1]	Text		40
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		40
	AcceptorIdentification <Accptrld>	[0..1]	Text		40
	TerminalIdentification <Termnlld>	[0..1]	Text		40
	Card <Card>	[1..1]	±		41
	PaymentToken <PmtTkn>	[0..1]	±		41
	ShippingAddress <ShppgAdr>	[0..1]			41
	AddressLine <AdrLine>	[0..2]	Text		42
	StreetName <StrtNm>	[0..1]	Text		42
	BuildingNumber <BldgNb>	[0..1]	Text		42
	PostCode <PstCd>	[0..1]	Text		42
	TownName <TwnNm>	[1..1]	Text		42
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		42
	Country <Ctry>	[1..1]	CodeSet	C3	43
	Context <Cntxt>	[0..1]			43
	TransactionContext <TxCntxt>	[1..1]	±		43
	Transaction <Tx>	[0..1]	±		43

3.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquirerIdentification <Acqrrld>	[1..1]	Text		40
	CardSchemelIdentification <CardSchmeld>	[0..1]	Text		40
	AcceptorIdentification <Accptrld>	[0..1]	Text		40
	TerminalIdentification <Termnlld>	[0..1]	Text		40
	Card <Card>	[1..1]	±		41
	PaymentToken <PmtTkn>	[0..1]	±		41
	ShippingAddress <ShppgAdr>	[0..1]			41
	AddressLine <AdrLine>	[0..2]	Text		42
	StreetName <StrtNm>	[0..1]	Text		42
	BuildingNumber <BldgNb>	[0..1]	Text		42
	PostCode <PstCd>	[0..1]	Text		42
	TownName <TwnNm>	[1..1]	Text		42
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		42
	Country <Ctry>	[1..1]	CodeSet	C3	43

3.4.2.1.1 AcquirerIdentification <Acqrrld>

Presence: [1..1]

Definition: Acquirer identification of the transaction.

Datatype: "Max35Text" on page 471

3.4.2.1.2 CardSchemelIdentification <CardSchmeld>

Presence: [0..1]

Definition: Identification of the interconnected card scheme from which the response is coming.

Datatype: "Max35Text" on page 471

3.4.2.1.3 AcceptorIdentification <Accptrld>

Presence: [0..1]

Definition: Identification of the card acceptor performing the transaction.

Datatype: "Max35Text" on page 471

3.4.2.1.4 TerminalIdentification <Termnlld>

Presence: [0..1]

Definition: Identification of the card terminal performing the transaction.

Datatype: "Max35Text" on page 471

3.4.2.1.5 Card <Card>

Presence: [1..1]

Definition: Card performing the transaction.

Card <Card> contains the following elements (see "PaymentCard13" on page 413 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		413
	PlainCardData <PlainCardData>	[0..1]			413
	PAN <PAN>	[1..1]	Text		414
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		414
	EffectiveDate <FctvDt>	[0..1]	Text		414
	ExpiryDate <XpryDt>	[1..1]	Text		414
	ServiceCode <SvcCd>	[0..1]	Text		414
	TrackData <TrckData>	[0..*]			414
	TrackNumber <TrckNb>	[0..1]	Text		415
	TrackValue <TrckVal>	[1..1]	Text		415
	MaskedPAN <MskdPAN>	[0..1]	Text		415
	CardProductType <CardPdctTp>	[0..1]	CodeSet		415
	CardProductName <CardPdctNm>	[0..1]	Text		415

3.4.2.1.6 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "CardPaymentToken2" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TokenCharacteristic <TknChrtc>	[0..*]	Text		209
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		209

3.4.2.1.7 ShippingAddress <ShppgAdr>

Presence: [0..1]

Definition: Postal address for delivery of goods or services.

ShippingAddress <ShppgAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		42
	StreetName <StrtNm>	[0..1]	Text		42
	BuildingNumber <BldgNb>	[0..1]	Text		42
	PostCode <PstCd>	[0..1]	Text		42
	TownName <TwnNm>	[1..1]	Text		42
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		42
	Country <Ctry>	[1..1]	CodeSet	C3	43

3.4.2.1.7.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

3.4.2.1.7.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

3.4.2.1.7.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

3.4.2.1.7.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

3.4.2.1.7.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

3.4.2.1.7.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

3.4.2.1.7.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 449

Constraints

- **Country**

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

3.4.2.2 Context <Cntxt>

Presence: [0..1]

Definition: Context in which the card transaction is performed.

Context <Cntxt> contains the following **CardTransactionContext3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		43

3.4.2.2.1 TransactionContext <TxCntxt>

Presence: [1..1]

Definition: Context of the card transaction.

TransactionContext <TxCntxt> contains the following elements (see "CardTransactionContext4" on page 313 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SpecialConditions <SpclConds>	[0..*]			313
	Program <Prgm>	[1..1]	Text		314
	Value <Val>	[0..1]	Text		314

3.4.2.3 Transaction <Tx>

Presence: [0..1]

Definition: Card transaction for which the authorisation has been requested.

Transaction <Tx> contains the following elements (see "CardTransaction4" on page 307 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		308
	Reconciliation <Rcncltn>	[0..1]	±		308
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		309
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		309
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		309
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		309
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		309
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		310
	TransactionDetails <TxDtIs>	[1..1]	±		310
	AuthorisationResult <AuthstnRsIt>	[0..1]	±		312

3.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		44
	AuthenticatedData <AuthntcdData>	[1..1]	±		45

3.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

CodeName	Name	Definition
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

3.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData4" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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AcquirerFinancialInitiation

4.1 MessageDefinition Functionality

The AcquirerFinancialInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the approval and the clearing of a card transaction.

Outline

The AcquirerFinancialInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. FinancialInitiation
Information related to financial authorisation.
- C. SecurityTrailer
Trailer of the message containing a MAC.

4.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <AcqrrFinInitn>	[1..1]			
	Header <Hdr>	[1..1]			48
	MessageFunction <MsgFctn>	[1..1]	CodeSet		49
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		50
	ExchangeIdentification <XchgId>	[1..1]	Text		50
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		50
	CreationDateTime <CreDtTm>	[1..1]	DateTime		51
	InitiatingParty <InitgPty>	[1..1]	±		51
	RecipientParty <RcptPty>	[0..1]	±		51
	Traceability <Tracblt>	[0..*]			51
	RelayIdentification <RlayId>	[1..1]	±		52
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		52
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		52
	FinancialInitiation <FinInitn>	[1..1]			52
	Environment <Envnt>	[1..1]			53
	Acquirer <Acqrr>	[1..1]	±		54
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		54
	Acceptor <Accptr>	[0..1]	±		54
	Terminal <Termnl>	[0..1]	±		54
	Card <Card>	[1..1]	±		55
	CustomerDevice <CstmrDvc>	[0..1]	±		56
	Wallet <Wllt>	[0..1]	±		56
	PaymentToken <PmtTkn>	[0..1]	±		57
	Cardholder <Crdhldr>	[0..1]	±		57
	ProtectedCardholderData <PrtctdCrdhldrData>	[0..1]	±		59
	Context <Cntxt>	[1..1]			59
	TransactionContext <TxCntxt>	[1..1]	±		59
	SaleContext <SaleCntxt>	[0..1]	±		60
	Transaction <Tx>	[1..1]	±		61
	SecurityTrailer <SctyTrlr>	[1..1]			65

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		65
	AuthenticatedData <AuthntcdData>	[1..1]	±		66

4.3 Constraints

C1 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters. (Algorithm)

C2 Country

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

C3 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN. (Algorithm)

C4 ValidationByTable

(Algorithm)

C5 ValidationByTable

(Algorithm)

4.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

4.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		49
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		50
	ExchangeIdentification <XchgId>	[1..1]	Text		50
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		50
	CreationDateTime <CreDtTm>	[1..1]	DateTime		51
	InitiatingParty <InitgPty>	[1..1]	±		51
	RecipientParty <RcptPty>	[0..1]	±		51
	Traceability <Tracblt>	[0..*]			51
	RelayIdentification <RlayId>	[1..1]	±		52
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		52
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		52

4.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.

CodeName	Name	Definition
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTV	NetworkManagementRequest	Request of a network management service.

4.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

4.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

4.4.1.4 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

4.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

4.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

4.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

4.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		52
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		52
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		52

4.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

4.4.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

4.4.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

4.4.2 FinancialInitiation <Finlnitn>

Presence: [1..1]

Definition: Information related to financial authorisation.

FinancialInitiation <FinInitn> contains the following **AcquirerFinancialInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			53
	Acquirer <Acqrr>	[1..1]	±		54
	CardSchemeldentification <CardSchmeld>	[0..1]	Text		54
	Acceptor <Acptr>	[0..1]	±		54
	Terminal <Termnl>	[0..1]	±		54
	Card <Card>	[1..1]	±		55
	CustomerDevice <CstmrDvc>	[0..1]	±		56
	Wallet <Wllt>	[0..1]	±		56
	PaymentToken <PmtTkn>	[0..1]	±		57
	Cardholder <Crdhldr>	[0..1]	±		57
	ProtectedCardholderData <PrtctdCrdhldrData>	[0..1]	±		59
	Context <Cntxt>	[1..1]			59
	TransactionContext <TxCntxt>	[1..1]	±		59
	SaleContext <SaleCntxt>	[0..1]	±		60
	Transaction <Tx>	[1..1]	±		61

4.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[1..1]	±		54
	CardSchemeldentification <CardSchmeld>	[0..1]	Text		54
	Acceptor <Acptr>	[0..1]	±		54
	Terminal <Termnl>	[0..1]	±		54
	Card <Card>	[1..1]	±		55
	CustomerDevice <CstmrDvc>	[0..1]	±		56
	Wallet <Wllt>	[0..1]	±		56
	PaymentToken <PmtTkn>	[0..1]	±		57
	Cardholder <Crdhldr>	[0..1]	±		57
	ProtectedCardholderData <PrtctdCrdhldrData>	[0..1]	±		59

4.4.2.1.1 Acquirer <Acqrr>*Presence:* [1..1]*Definition:* Acquirer of the card transaction.**Acquirer <Acqrr>** contains the following elements (see "[Acquirer6](#)" on page 410 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		411
	Issuer <Issr>	[0..1]	Text		411
	CountryCode <CtryCd>	[0..1]	CodeSet		411

4.4.2.1.2 CardSchemeIdentification <CardSchmeld>*Presence:* [0..1]*Definition:* Identification of the interconnected card scheme from which the request is coming.*Datatype:* "[Max35Text](#)" on page 471**4.4.2.1.3 Acceptor <Accptr>***Presence:* [0..1]*Definition:* Acceptor performing the card transaction.**Acceptor <Accptr>** contains the following elements (see "[Organisation18](#)" on page 407 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		408
	CommonName <CmonNm>	[1..1]	Text		408
	Location <Lctn>	[1..1]	±		408
	SelectedLanguage <SelctdLang>	[0..1]	CodeSet		409
	SchemeData <SchmeData>	[0..1]	Text		409

4.4.2.1.4 Terminal <Termnl>*Presence:* [0..1]*Definition:* Payment terminal or ATM performing the transaction.

Terminal <Termnl> contains the following elements (see "CardAcceptorTerminal1" on page 376 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		376
	Location <Lctn>	[0..1]			376
	AddressLine <AdrLine>	[0..2]	Text		377
	StreetName <StrtNm>	[0..1]	Text		377
	BuildingNumber <BldgNb>	[0..1]	Text		377
	PostCode <PstCd>	[0..1]	Text		377
	TownName <TwnNm>	[1..1]	Text		377
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		377
	Country <Ctry>	[1..1]	CodeSet		378
	Capabilities <Cpblties>	[1..1]	±		378

4.4.2.1.5 Card <Card>

Presence: [1..1]

Definition: Card performing the transaction.

Card <Card> contains the following elements (see "PaymentCard12" on page 416 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		416
	PlainCardData <PlainCardData>	[0..1]			416
	PAN <PAN>	[1..1]	Text		417
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		417
	EffectiveDate <FctvDt>	[0..1]	Text		417
	ExpiryDate <XpryDt>	[0..1]	Text		417
	ServiceCode <SvcCd>	[0..1]	Text		417
	TrackData <TrckData>	[0..*]			418
	TrackNumber <TrckNb>	[0..1]	Text		418
	TrackValue <TrckVal>	[1..1]	Text		418
	CardholderName <CrdhldrNm>	[0..1]	Text		418
	IssuerBIN <IssrBIN>	[0..1]	Text		418
	CardCountryCode <CardCtryCd>	[0..1]	Text		418
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		418
	AdditionalCardData <AddtlCardData>	[0..1]	Text		418

4.4.2.1.6 CustomerDevice <CstmrDvc>

Presence: [0..1]

Definition: Container of tenders used by the customer to perform the payment.

CustomerDevice <CstmrDvc> contains the following elements (see "CustomerDevice1" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

4.4.2.1.7 Wallet <Wllt>

Presence: [0..1]

Definition: Container of tenders used by the customer to perform the payment.

Wallet <Wlt> contains the following elements (see "CustomerDevice1" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

4.4.2.1.8 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "CardPaymentToken4" on page 411 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		411
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		412
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		412
	TokenCharacteristic <TknChrtc>	[0..*]	Text		412
	TokenRequestor <TknRqstr>	[0..1]			412
	ProviderIdentification <PrvdrlId>	[1..1]	Text		412
	RequestorIdentification <RqstrId>	[1..1]	Text		412
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		412
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		413

4.4.2.1.9 Cardholder <Crhdldr>

Presence: [0..1]

Definition: Cardholder involved in the card transaction.

It correspond partially to the ISO 8583:2003, field number 49-71.

Cardholder <Crdhldr> contains the following elements (see "Cardholder9" on page 364 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		366
	Name <Nm>	[0..1]	Text		366
	Language <Lang>	[0..1]	CodeSet		366
	BillingAddress <BllgAdr>	[0..1]			367
	AddressLine <AdrLine>	[0..2]	Text		367
	StreetName <StrtNm>	[0..1]	Text		367
	BuildingNumber <BldgNb>	[0..1]	Text		367
	PostCode <PstCd>	[0..1]	Text		367
	TownName <TwnNm>	[1..1]	Text		367
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		368
	Country <Ctry>	[1..1]	CodeSet		368
	ShippingAddress <ShppgAdr>	[0..1]			368
	AddressLine <AdrLine>	[0..2]	Text		368
	StreetName <StrtNm>	[0..1]	Text		368
	BuildingNumber <BldgNb>	[0..1]	Text		368
	PostCode <PstCd>	[0..1]	Text		369
	TownName <TwnNm>	[1..1]	Text		369
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		369
	Country <Ctry>	[1..1]	CodeSet		369
	Authentication <Authntcn>	[0..*]			369
	AuthenticationMethod <AuthntcnMtd>	[1..1]	CodeSet		370
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		371
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		371
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			371
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		371
	PINFormat <PINFrmt>	[1..1]	CodeSet		372
	AdditionalInput <AddtlInpt>	[0..1]	Text		372
	CardholderIdentification <CrdhldrId>	[0..1]	±		372
	AddressVerification <AdrVrfctn>	[0..1]			373
	AddressDigits <AdrDgts>	[0..1]	Text		373
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		373

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			373
	Method <Mtd>	[1..1]	CodeSet		374
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		375
	Result <Rslt>	[0..1]	CodeSet		375
	AdditionalResult <AddtlRslt>	[0..1]	Text		375
	PersonalData <PrsnlData>	[0..1]	Text		376

4.4.2.1.10 ProtectedCardholderData <PrctcdCrhdldrData>

Presence: [0..1]

Definition: Protection of cardholder sensitive data by a digital envelope using a cryptographic key.

ProtectedCardholderData <PrctcdCrhdldrData> contains the following elements (see "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

4.4.2.2 Context <Cntxt>

Presence: [1..1]

Definition: Context in which the transaction is performed.

Context <Cntxt> contains the following **CardTransactionContext1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		59
	SaleContext <SaleCntxt>	[0..1]	±		60

4.4.2.2.1 TransactionContext <TxCntxt>

Presence: [1..1]

Definition: Context of the card transaction.

TransactionContext <TxCntxt> contains the following elements (see "CardTransactionContext2" on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardPresent <CardPres>	[0..1]	Indicator		359
	CardholderPresent <CrdhldrPres>	[0..1]	Indicator		359
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		360
	AttendanceContext <AttnDncCntxt>	[0..1]	CodeSet		360
	TransactionEnvironment <TxEnvnt>	[0..1]	CodeSet		360
	HostingCategory <HstgCtgy>	[0..1]	CodeSet		360
	TransactionChannel <TxChanI>	[0..1]	CodeSet		361
	CardDataEntryMode <CardDataNtryMd>	[1..1]	CodeSet		361
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		362
	SupportedOption <SpprtOptn>	[0..*]	CodeSet		362
	SpecialConditions <SpclConds>	[0..*]			362
	Program <Prgm>	[1..1]	Text		363
	Value <Val>	[0..1]	Text		363
	RiskIndicator <RskInd>	[0..*]			363
	Reason <Rsn>	[0..*]	CodeSet		363
	Level <LvI>	[1..1]	Quantity		364
	RecommendedAction <RcmmnddActn>	[0..*]	CodeSet		364

4.4.2.2.2 SaleContext <SaleCntxt>

Presence: [0..1]

Definition: Context of the sale involving the card payment transaction.

SaleContext <SaleCntxt> contains the following elements (see "SaleContext1" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleIdentification <SaleId>	[0..1]	Text		388
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		388
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		388
	CashierIdentification <CshrId>	[0..1]	Text		388
	ShiftNumber <ShftNb>	[0..1]	Text		388
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		388

4.4.2.3 Transaction <Tx>

Presence: [1..1]

Definition: Card transaction for which the financial authorisation has been requested.

Transaction <Tx> contains the following elements (see "CardTransaction5" on page 251 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		255
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		256
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		257
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		257
	Reconciliation <Rcncltn>	[0..1]	±		257
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		258
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		258
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		258
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		258
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		258
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		259
	AcquirerTransactionReference <AcqrrTxRef>	[0..1]	Text		259
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		259
	OriginalTransaction <OrgnlTx>	[0..1]	±		259
	TransactionDetails <TxDtls>	[1..1]			259
	TransactionAmounts <TxAmts>	[1..1]			263
	TotalAmount <TtlAmt>	[1..1]	Amount		263
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		263
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			264
	Amount <Amt>	[1..1]	Amount		264
	ExchangeRate <XchgRate>	[1..1]	Rate		264
	QuotationDate <QtnDt>	[0..1]	DateTime		264
	Label <Labl>	[0..1]	Text		265
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			265
	Amount <Amt>	[1..1]	Amount		265
	ExchangeRate <XchgRate>	[1..1]	Rate		265
	QuotationDate <QtnDt>	[0..1]	DateTime		265
	Label <Labl>	[0..1]	Text		265
	DetailedAmount <DtldAmt>	[0..*]			266

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		266
	AdditionalType <AddtlTp>	[0..1]	Text		266
	Amount <Amt>	[1..1]	Amount		266
	Label <Lbl>	[0..1]	Text		267
	TransactionFees <TxFees>	[0..*]			267
	Type <Tp>	[1..1]	CodeSet		267
	AdditionalType <AddtlTp>	[0..1]	Text		267
	Amount <Amt>	[1..1]	±		267
	OriginalAmount <OrgnlAmt>	[0..1]	±		268
	AdditionalAmounts <AddtlAmts>	[0..*]			268
	Type <Tp>	[1..1]	CodeSet		268
	AdditionalType <AddtlTp>	[0..1]	Text		269
	Amount <Amt>	[1..1]	Amount		269
	Label <Lbl>	[0..1]	Text		269
	MessageReason <MsgRsn>	[0..1]	CodeSet		269
	ValidityDate <VldtyDt>	[0..1]	Date		271
	UnattendedLevelCategory <UattnddLv/Ctgy>	[0..1]	Text		271
	AccountFrom <AcctFr>	[0..1]			271
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		272
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		273
	AccountName <AcctNm>	[0..1]	Text		273
	AccountOwner <AcctOwnr>	[0..1]			273
	Name <Nm>	[1..1]	Text		274
	Address <Adr>	[1..1]	±		274
	AccountIdentifier <AcctIdr>	[0..1]			274
{Or	Card <Card>	[1..1]	Text		275
Or	MSISDN <MSISDN>	[1..1]	Text		275
Or	EMail <EMail>	[1..1]	Text		275
Or	IBAN <IBAN>	[1..1]	IdentifierSet		275
Or	BBAN <BBAN>	[1..1]	IdentifierSet		275
Or	UPIC <UPIC>	[1..1]	IdentifierSet		276

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	Domestic <Dmst>	[1..1]	Text		276
Or}	Other <Othr>	[1..1]	Text		276
	Servicer <Svcr>	[0..1]			276
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		276
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		276
	AccountTo <AcctTo>	[0..1]			277
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		277
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		278
	AccountName <AcctNm>	[0..1]	Text		279
	AccountOwner <AcctOwnr>	[0..1]			279
	Name <Nm>	[1..1]	Text		279
	Address <Adr>	[1..1]	±		279
	AccountIdentifier <AcctIdr>	[0..1]			279
{Or	Card <Card>	[1..1]	Text		280
Or	MSISDN <MSISDN>	[1..1]	Text		280
Or	EMail <EMail>	[1..1]	Text		280
Or	IBAN <IBAN>	[1..1]	IdentifierSet		280
Or	BBAN <BBAN>	[1..1]	IdentifierSet		280
Or	UPIC <UPIC>	[1..1]	IdentifierSet		281
Or	Domestic <Dmst>	[1..1]	Text		281
Or}	Other <Othr>	[1..1]	Text		281
	Servicer <Svcr>	[0..1]			281
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		281
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		281
	Instalment <Instlmt>	[0..1]	±		282
	AntiMoneyLaundering <AML>	[0..1]			282
	SenderName <SndrNm>	[0..1]	Text		283
	SenderAddress <SndrAdr>	[0..1]			283
	AddressLine <AdrLine>	[0..2]	Text		284
	StreetName <StrtNm>	[0..1]	Text		284
	BuildingNumber <BldgNb>	[0..1]	Text		284

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PostCode <PstCd>	[0..1]	Text		284
	TownName <TwnNm>	[1..1]	Text		284
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		284
	Country <Ctry>	[1..1]	CodeSet		285
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		285
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		285
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		285
	PassportIssuingCountry <PsptlssgCtry>	[0..1]	Text		285
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		285
	TaxCountry <TaxCtry>	[0..1]	Text		285
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		285
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		286
	ReceiverName <RcvrNm>	[0..1]	Text		286
	TransactionReference <TxRef>	[0..1]	Text		286
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		286
	AuthorisationResult <AuthstnRslt>	[0..1]	±		286

4.4.3 SecurityTrailer <SctyTrlr>

Presence: [1..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		65
	AuthenticatedData <AuthntcdData>	[1..1]	±		66

4.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

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

4.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on [page 405](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

5 cain.004.001.01 AcquirerFinancialResponse

5.1 MessageDefinition Functionality

The AcquirerFinancialResponse message is sent by an issuer or an agent to answer to an AcquirerFinancialInitiation message.

Outline

The AcquirerFinancialResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. FinancialResponse
Information related to the response of a financial authorisation.
- C. SecurityTrailer
Trailer of the message containing a MAC.

5.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <AcqrrFinRspn>	[1..1]			
	Header <Hdr>	[1..1]			70
	MessageFunction <MsgFctn>	[1..1]	CodeSet		70
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		71
	ExchangeIdentification <XchgId>	[1..1]	Text		72
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		72
	CreationDateTime <CreDtTm>	[1..1]	DateTime		72
	InitiatingParty <InitgPty>	[1..1]	±		72
	RecipientParty <RcptPty>	[0..1]	±		72
	Traceability <Tracblt>	[0..*]			73
	RelayIdentification <RlayId>	[1..1]	±		73
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		73
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		74
	FinancialResponse <FinRspn>	[1..1]			74
	Environment <Envnt>	[1..1]			76
	AcquirerIdentification <Acqrrld>	[1..1]	Text		76
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		76
	AcceptorIdentification <Accptrld>	[0..1]	Text		76
	TerminalIdentification <Termnlld>	[0..1]	Text		76
	Card <Card>	[1..1]	±		77
	PaymentToken <PmtTkn>	[0..1]	±		77
	ShippingAddress <ShppgAdr>	[0..1]			77
	AddressLine <AdrLine>	[0..2]	Text		78
	StreetName <StrtNm>	[0..1]	Text		78
	BuildingNumber <BldgNb>	[0..1]	Text		78
	PostCode <PstCd>	[0..1]	Text		78
	TownName <TwnNm>	[1..1]	Text		78
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		78
	Country <Ctry>	[1..1]	CodeSet	C3	79
	Context <Cntxt>	[0..1]			79

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		79
	Transaction <Tx>	[1..1]			79
	TransactionType <TxTp>	[1..1]	CodeSet		80
	Reconciliation <Rcncltn>	[0..1]	±		81
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		81
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		81
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		82
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		82
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		82
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		82
	TransactionDetails <TxDtls>	[1..1]	±		82
	AuthorisationResult <AuthstnRslt>	[0..1]	±		84
	SecurityTrailer <SctyTrlr>	[0..1]			85
	ContentType <CnttTp>	[1..1]	CodeSet		85
	AuthenticatedData <AuthntcdData>	[1..1]	±		86

5.3 Constraints

C1 ActiveCurrency

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

C2 AnyBIC

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters. (Algorithm)

C3 Country

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

C4 IBAN

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN. (Algorithm)

C5 ValidationByTable

(Algorithm)

5.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

5.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		70
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		71
	ExchangeIdentification <XchgId>	[1..1]	Text		72
	ReTransmissionCounter <ReTrnsmssnCnt>	[0..1]	Text		72
	CreationDateTime <CreDtTm>	[1..1]	DateTime		72
	InitiatingParty <InitgPty>	[1..1]	±		72
	RecipientParty <RcptPty>	[0..1]	±		72
	Traceability <Tracblt>	[0..*]			73
	RelayIdentification <RlayId>	[1..1]	±		73
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		73
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		74

5.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.

CodeName	Name	Definition
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

5.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

5.4.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

5.4.1.4 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

5.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

5.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

5.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

5.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		73
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		73
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		74

5.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

5.4.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

5.4.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

5.4.2 FinancialResponse <FinRspn>

Presence: [1..1]

Definition: Information related to the response of a financial authorisation.

FinancialResponse <FinRspn> contains the following **AcquirerFinancialResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			76
	AcquirerIdentification <Acqrrld>	[1..1]	Text		76
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		76
	AcceptorIdentification <Accptrld>	[0..1]	Text		76
	TerminalIdentification <Termnlld>	[0..1]	Text		76
	Card <Card>	[1..1]	±		77
	PaymentToken <PmtTkn>	[0..1]	±		77
	ShippingAddress <ShppgAdr>	[0..1]			77
	AddressLine <AdrLine>	[0..2]	Text		78
	StreetName <StrtNm>	[0..1]	Text		78
	BuildingNumber <BldgNb>	[0..1]	Text		78
	PostCode <PstCd>	[0..1]	Text		78
	TownName <TwnNm>	[1..1]	Text		78
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		78
	Country <Ctry>	[1..1]	CodeSet	C3	79
	Context <Cntxt>	[0..1]			79
	TransactionContext <TxCntxt>	[1..1]	±		79
	Transaction <Tx>	[1..1]			79
	TransactionType <TxTp>	[1..1]	CodeSet		80
	Reconciliation <Rcncltn>	[0..1]	±		81
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		81
	InitiatorTransactionIdentification <InitrTxld>	[1..1]	Text		81
	TransactionLifeCycleIdentification <TxLifeCyclld>	[0..1]	Text		82
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		82
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		82
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		82
	TransactionDetails <TxDtls>	[1..1]	±		82
	AuthorisationResult <AuthstnRslt>	[0..1]	±		84

5.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction

Environment <Envt> contains the following **CardTransactionEnvironment2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquirerIdentification <Acqrrld>	[1..1]	Text		76
	CardSchemelIdentification <CardSchmeld>	[0..1]	Text		76
	AcceptorIdentification <Accptrld>	[0..1]	Text		76
	TerminalIdentification <Termnllld>	[0..1]	Text		76
	Card <Card>	[1..1]	±		77
	PaymentToken <PmtTkn>	[0..1]	±		77
	ShippingAddress <ShppgAdr>	[0..1]			77
	AddressLine <AdrLine>	[0..2]	Text		78
	StreetName <StrtNm>	[0..1]	Text		78
	BuildingNumber <BldgNb>	[0..1]	Text		78
	PostCode <PstCd>	[0..1]	Text		78
	TownName <TwnNm>	[1..1]	Text		78
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		78
	Country <Ctry>	[1..1]	CodeSet	C3	79

5.4.2.1.1 AcquirerIdentification <Acqrrld>

Presence: [1..1]

Definition: Acquirer identification of the transaction.

Datatype: "Max35Text" on page 471

5.4.2.1.2 CardSchemelIdentification <CardSchmeld>

Presence: [0..1]

Definition: Identification of the interconnected card scheme from which the response is coming.

Datatype: "Max35Text" on page 471

5.4.2.1.3 AcceptorIdentification <Accptrld>

Presence: [0..1]

Definition: Identification of the card acceptor performing the transaction.

Datatype: "Max35Text" on page 471

5.4.2.1.4 TerminalIdentification <Termnllld>

Presence: [0..1]

Definition: Identification of the card terminal performing the transaction.

Datatype: "Max35Text" on page 471

5.4.2.1.5 Card <Card>

Presence: [1..1]

Definition: Card performing the transaction.

Card <Card> contains the following elements (see "PaymentCard13" on page 413 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		413
	PlainCardData <PlainCardData>	[0..1]			413
	PAN <PAN>	[1..1]	Text		414
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		414
	EffectiveDate <FctvDt>	[0..1]	Text		414
	ExpiryDate <XpryDt>	[1..1]	Text		414
	ServiceCode <SvcCd>	[0..1]	Text		414
	TrackData <TrckData>	[0..*]			414
	TrackNumber <TrckNb>	[0..1]	Text		415
	TrackValue <TrckVal>	[1..1]	Text		415
	MaskedPAN <MskdPAN>	[0..1]	Text		415
	CardProductType <CardPdctTp>	[0..1]	CodeSet		415
	CardProductName <CardPdctNm>	[0..1]	Text		415

5.4.2.1.6 PaymentToken <PmtTkn>

Presence: [0..1]

Definition: Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "CardPaymentToken2" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TokenCharacteristic <TknChrtc>	[0..*]	Text		209
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		209

5.4.2.1.7 ShippingAddress <ShppgAdr>

Presence: [0..1]

Definition: Postal address for delivery of goods or services.

ShippingAddress <ShppgAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		78
	StreetName <StrtNm>	[0..1]	Text		78
	BuildingNumber <BldgNb>	[0..1]	Text		78
	PostCode <PstCd>	[0..1]	Text		78
	TownName <TwnNm>	[1..1]	Text		78
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		78
	Country <Ctry>	[1..1]	CodeSet	C3	79

5.4.2.1.7.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

5.4.2.1.7.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

5.4.2.1.7.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

5.4.2.1.7.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

5.4.2.1.7.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

5.4.2.1.7.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

5.4.2.1.7.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Impacted by: C3 "Country"

Datatype: "CountryCode" on page 449

Constraints

- **Country**

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

5.4.2.2 Context <Cntxt>

Presence: [0..1]

Definition: Context in which the card transaction is performed.

Context <Cntxt> contains the following **CardTransactionContext3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionContext <TxCntxt>	[1..1]	±		79

5.4.2.2.1 TransactionContext <TxCntxt>

Presence: [1..1]

Definition: Context of the card transaction.

TransactionContext <TxCntxt> contains the following elements (see "CardTransactionContext4" on page 313 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SpecialConditions <SpclConds>	[0..*]			313
	Program <Prgm>	[1..1]	Text		314
	Value <Val>	[0..1]	Text		314

5.4.2.3 Transaction <Tx>

Presence: [1..1]

Definition: Card transaction for which the financial authorisation has been requested.

Transaction <Tx> contains the following **CardTransaction6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		80
	Reconciliation <Rcncltn>	[0..1]	±		81
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		81
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		81
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		82
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		82
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		82
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		82
	TransactionDetails <TxDtls>	[1..1]	±		82
	AuthorisationResult <AuthstnRslt>	[0..1]	±		84

5.4.2.3.1 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583, field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.

CodeName	Name	Definition
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

5.4.2.3.2 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see ["TransactionIdentifier2"](#) on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

5.4.2.3.3 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583, field number 12.

Datatype: ["ISODatetime"](#) on page 467

5.4.2.3.4 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: ["Max35Text"](#) on page 471

5.4.2.3.5 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Max35Text" on page 471

5.4.2.3.6 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>

Presence: [0..1]

Definition: Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003, field number 21.

Datatype: "Number" on page 469

5.4.2.3.7 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>

Presence: [0..1]

Definition: Total number of transactions under the same life cycle transaction sequence number.

Datatype: "Number" on page 469

5.4.2.3.8 CardIssuerReferenceData <CardIssrRefData>

Presence: [0..1]

Definition: Data supplied by a card issuer in response messages or in issuer generated messages, that the acquirer may be required to be provided in subsequent messages. It corresponds to ISO 8583:93 and 2003 field number 95.

Datatype: "Max140Text" on page 470

5.4.2.3.9 TransactionDetails <TxDtls>

Presence: [1..1]

Definition: Details of the card transaction.

TransactionDetails <TxDtIs> contains the following elements (see "CardTransactionDetail4" on page 234 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			236
	TotalAmount <TtlAmt>	[1..1]	Amount		237
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			237
	Amount <Amt>	[1..1]	Amount		238
	ExchangeRate <XchgRate>	[1..1]	Rate		238
	QuotationDate <QtnDt>	[0..1]	DateTime		238
	Label <Lbl>	[0..1]	Text		238
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			238
	Amount <Amt>	[1..1]	Amount		239
	ExchangeRate <XchgRate>	[1..1]	Rate		239
	QuotationDate <QtnDt>	[0..1]	DateTime		239
	Label <Lbl>	[0..1]	Text		239
	DetailedAmount <DtldAmt>	[0..*]			239
	Type <Tp>	[1..1]	CodeSet		240
	AdditionalType <AddtlTp>	[0..1]	Text		240
	Amount <Amt>	[1..1]	Amount		240
	Label <Lbl>	[0..1]	Text		240
	TransactionFees <TxFees>	[0..*]			241
	Type <Tp>	[1..1]	CodeSet		241
	AdditionalType <AddtlTp>	[0..1]	Text		241
	Amount <Amt>	[1..1]	±		241
	OriginalAmount <OrgnlAmt>	[0..1]	±		241
	AdditionalAmounts <AddtlAmts>	[0..*]			242
	Type <Tp>	[1..1]	CodeSet		242
	AdditionalType <AddtlTp>	[0..1]	Text		243
	Amount <Amt>	[1..1]	Amount		243
	Label <Lbl>	[0..1]	Text		243
	AccountAndBalance <AcctAndBal>	[0..*]			243
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		244
	AccountName <AcctNm>	[0..1]	Text		245

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AccountOwner <AcctOwnr>	[0..1]			245
	Name <Nm>	[1..1]	Text		245
	Address <Adr>	[1..1]	±		246
	Currency <Ccy>	[0..1]	CodeSet		246
	AccountIdentifier <AcctIdr>	[0..1]			246
{Or	Card <Card>	[1..1]	Text		246
Or	MSISDN <MSISDN>	[1..1]	Text		247
Or	EMail <EMail>	[1..1]	Text		247
Or	IBAN <IBAN>	[1..1]	IdentifierSet		247
Or	BBAN <BBAN>	[1..1]	IdentifierSet		247
Or	UPIC <UPIC>	[1..1]	IdentifierSet		247
Or	Domestic <Dmst>	[1..1]	Text		247
Or}	Other <Othr>	[1..1]	Text		247
	Servicer <Svcr>	[0..1]			248
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		248
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		248
	Balance <Bal>	[0..1]	±		248
	BalanceDate <BalDt>	[0..1]	Date		249
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			249
	Method <Mtd>	[1..1]	CodeSet		249
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		250
	Result <Rslt>	[0..1]	CodeSet		250
	AdditionalResult <AddtlRslt>	[0..1]	Text		251
	ValidityDate <VldtyDt>	[0..1]	Date		251
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		251

5.4.2.3.10 AuthorisationResult <AuthstnRslt>

Presence: [0..1]

Definition: Outcome of the authorisation.

AuthorisationResult <AuthstnRslt> contains the following elements (see "AuthorisationResult8" on page 287 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			288
	Identification <Id>	[0..1]	Text		289
	Type <Tp>	[1..1]	CodeSet		289
	Issuer <Issr>	[0..1]	CodeSet		289
	Country <Ctry>	[0..1]	Text		290
	ShortName <ShrtNm>	[0..1]	Text		290
	TransactionResponse <TxRspn>	[1..1]	±		290
	Action <Actn>	[0..*]			290
	ActionType <ActnTp>	[1..1]	CodeSet		290
	MessageToPresent <MsgToPres>	[0..1]			291
	MessageDestination <MsgDstn>	[1..1]	CodeSet		291
	Format <Frmt>	[0..1]	CodeSet		292
	MessageContent <MsgCntt>	[1..1]	Text		292
	MessageContentSignature <MsgCnttSgntr>	[0..1]	Binary		292
	AuthorisationCode <AuthstnCd>	[0..1]	Text		292
	AdditionalInformation <AddtlInf>	[0..*]			292
	Destination <Dstn>	[1..1]	CodeSet		293
	Format <Frmt>	[0..1]	CodeSet		293
	Content <Cntt>	[1..1]	Text		293

5.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		85
	AuthenticatedData <AuthntcdData>	[1..1]	±		86

5.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

5.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData4" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

6 cain.005.001.01 AcquirerReversalInitiation

6.1 MessageDefinition Functionality

The AcquirerReversalInitiation message is sent by an acquirer or an agent to an issuer or an agent, to request, advice or notify the reversal of a card transaction.

Outline

The AcquirerReversalInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 Information related to the protocol management
- B. ReversalInitiation
 Information related to the reversal.
- C. SecurityTrailer
 Trailer of the message containing a MAC.

6.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <AcqrrRvslInitn>	[1..1]			
	Header <Hdr>	[1..1]			89
	MessageFunction <MsgFctn>	[1..1]	CodeSet		90
	OriginalMessageFunction <OrgnlMsgFctn>	[1..1]	CodeSet		91
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		93
	ExchangeIdentification <XchgId>	[1..1]	Text		93
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		93
	CreationDateTime <CreDtTm>	[1..1]	DateTime		93
	InitiatingParty <InitgPty>	[1..1]	±		93
	RecipientParty <RcptPty>	[0..1]	±		93
	Traceability <Tracblt>	[0..*]			94
	RelayIdentification <RlayId>	[1..1]	±		94
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		94
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		95
	ReversalInitiation <RvslInitn>	[1..1]			95
	Environment <Envt>	[1..1]			96
	Acquirer <Acqrr>	[1..1]	±		96
	CardSchemeldentification <CardSchmeld>	[0..1]	Text		96
	Acceptor <Accptr>	[1..1]	±		96
	Terminalldentification <Termnlld>	[0..1]	±		97
	Card <Card>	[1..1]	±		97
	CustomerDevice <CstmrDvc>	[0..1]	±		98
	Wallet <Wllt>	[0..1]	±		98
	PaymentToken <PmtTkn>	[0..1]	±		98
	Transaction <Tx>	[1..1]			99
	TransactionType <TxTp>	[1..1]	CodeSet		99
	Reconciliation <Rcncltn>	[0..1]	±		100
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		100
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		101
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		101

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		101
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		101
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		101
	AcquirerTransactionReference <AcqrrTxRef>	[0..1]	Text		101
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		101
	OriginalTransaction <OrgnlTx>	[0..1]	±		102
	TransactionDetails <TxDtls>	[1..1]	±		102
	TransactionResponse <TxRspn>	[0..1]	±		103
	SecurityTrailer <SctyTrlr>	[0..1]			104
	ContentType <CnttTp>	[1..1]	CodeSet		104
	AuthenticatedData <AuthntcdData>	[1..1]	±		104

6.3 Constraints

C1 ValidationByTable

(Algorithm)

C2 ValidationByTable

(Algorithm)

6.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

6.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management

Header <Hdr> contains the following **Header18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		90
	OriginalMessageFunction <OrgnlMsgFctn>	[1..1]	CodeSet		91
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		93
	ExchangeIdentification <XchgId>	[1..1]	Text		93
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		93
	CreationDateTime <CreDtTm>	[1..1]	DateTime		93
	InitiatingParty <InitgPty>	[1..1]	±		93
	RecipientParty <RcptPty>	[0..1]	±		93
	Traceability <Tracblt>	[0..*]			94
	RelayIdentification <RlayId>	[1..1]	±		94
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		94
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		95

6.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.

CodeName	Name	Definition
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

6.4.1.2 OriginalMessageFunction <OrgnlMsgFctn>

Presence: [1..1]

Definition: Identifies the type of process related to the message which has to be reversed.

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.

CodeName	Name	Definition
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

6.4.1.3 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

6.4.1.4 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

6.4.1.5 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by 1 for each retransmission.

Datatype: "Max3NumericText" on page 471

6.4.1.6 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

6.4.1.7 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

6.4.1.8 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

6.4.1.9 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		94
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		94
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		95

6.4.1.9.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

6.4.1.9.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

6.4.1.9.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

6.4.2 ReversalInitiation <RvslInitn>

Presence: [1..1]

Definition: Information related to the reversal.

ReversalInitiation <RvslInitn> contains the following **AcquirerReversalInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			96
	Acquirer <Acqrr>	[1..1]	±		96
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		96
	Acceptor <Accptr>	[1..1]	±		96
	TerminalIdentification <TermnIld>	[0..1]	±		97
	Card <Card>	[1..1]	±		97
	CustomerDevice <CstmrDvc>	[0..1]	±		98
	Wallet <Wlft>	[0..1]	±		98
	PaymentToken <PmtTkn>	[0..1]	±		98
	Transaction <Tx>	[1..1]			99
	TransactionType <TxTp>	[1..1]	CodeSet		99
	Reconciliation <Rcncltn>	[0..1]	±		100
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		100
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		101
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		101
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		101
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		101
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		101
	AcquirerTransactionReference <AcqrrTxRef>	[0..1]	Text		101
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		101
	OriginalTransaction <OrgnlTx>	[0..1]	±		102
	TransactionDetails <TxDtls>	[1..1]	±		102
	TransactionResponse <TxRspn>	[0..1]	±		103

6.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Acquirer <Acqrr>	[1..1]	±		96
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		96
	Acceptor <Accptr>	[1..1]	±		96
	TerminalIdentification <Termnlld>	[0..1]	±		97
	Card <Card>	[1..1]	±		97
	CustomerDevice <CstmrDvc>	[0..1]	±		98
	Wallet <Wlt>	[0..1]	±		98
	PaymentToken <PmtTkn>	[0..1]	±		98

6.4.2.1.1 Acquirer <Acqrr>

Presence: [1..1]

Definition: Acquirer of the card transaction.

Acquirer <Acqrr> contains the following elements (see "Acquirer6" on page 410 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		411
	Issuer <Issr>	[0..1]	Text		411
	CountryCode <CtryCd>	[0..1]	CodeSet		411

6.4.2.1.2 CardSchemeIdentification <CardSchmeld>

Presence: [0..1]

Definition: Identification of the interconnected card scheme from which the response is coming.

Datatype: "Max35Text" on page 471

6.4.2.1.3 Acceptor <Accptr>

Presence: [1..1]

Definition: Acceptor performing the card transaction.

Acceptor <Acptr> contains the following elements (see "Organisation19" on page 409 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		410
	CommonName <CmonNm>	[1..1]	Text		410
	SelectedLanguage <SelctdLang>	[0..1]	CodeSet		410
	SchemeData <SchmeData>	[0..1]	Text		410

6.4.2.1.4 TerminalIdentification <Termnlld>

Presence: [0..1]

Definition: Identification of the card terminal performing the transaction.

TerminalIdentification <Termnlld> contains the following elements (see "GenericIdentification32" on page 205 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		205
	Type <Tp>	[0..1]	CodeSet		205
	Issuer <Issr>	[0..1]	CodeSet		205
	ShortName <ShrtNm>	[0..1]	Text		206

6.4.2.1.5 Card <Card>

Presence: [1..1]

Definition: Card performing the transaction.

Card <Card> contains the following elements (see "PaymentCard14" on page 419 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrctcdCardData>	[0..1]	±		419
	PlainCardData <PlainCardData>	[0..1]			419
	PAN <PAN>	[1..1]	Text		420
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		420
	EffectiveDate <FctvDt>	[0..1]	Text		420
	ExpiryDate <XpryDt>	[0..1]	Text		420
	ServiceCode <SvcCd>	[0..1]	Text		420
	IssuerBIN <IssrBIN>	[0..1]	Text		420
	CardCountryCode <CardCtryCd>	[0..1]	Text		421
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		421

6.4.2.1.6 CustomerDevice <CstmrDvc>*Presence:* [0..1]*Definition:* Container of tenders used by the customer to perform the payment.**CustomerDevice <CstmrDvc>** contains the following elements (see "[CustomerDevice1](#)" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

6.4.2.1.7 Wallet <Wllet>*Presence:* [0..1]*Definition:* Container of tenders used by the customer to perform the payment.**Wallet <Wllet>** contains the following elements (see "[CustomerDevice1](#)" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

6.4.2.1.8 PaymentToken <PmtTkn>*Presence:* [0..1]*Definition:* Payment token information.**PaymentToken <PmtTkn>** contains the following elements (see "[CardPaymentToken4](#)" on page 411 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		411
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		412
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		412
	TokenCharacteristic <TknChrtc>	[0..*]	Text		412
	TokenRequestor <TknRqstr>	[0..1]			412
	ProviderIdentification <PrvdrId>	[1..1]	Text		412
	RequestorIdentification <RqstrId>	[1..1]	Text		412
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		412
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		413

6.4.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Reversal transaction.

Transaction <Tx> contains the following **CardTransaction7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		99
	Reconciliation <Rcncltn>	[0..1]	±		100
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		100
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		101
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		101
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		101
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		101
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		101
	AcquirerTransactionReference <AcqrrTxRef>	[0..1]	Text		101
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		101
	OriginalTransaction <OrgnlTx>	[0..1]	±		102
	TransactionDetails <TxDtls>	[1..1]	±		102
	TransactionResponse <TxRspn>	[0..1]	±		103

6.4.2.2.1 TransactionType <TxTp>

Presence: [1..1]

Definition: TTransaction type of the transaction to be reversed.

It correspond partially to the ISO 8583, field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.

CodeName	Name	Definition
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

6.4.2.2.2 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see ["TransactionIdentifier2"](#) on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

6.4.2.2.3 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer.

It correspond to the ISO 8583 field number 12.

Datatype: ["ISODateTime"](#) on page 467

6.4.2.2.4 AcceptorTransactionIdentification <AcptrTxId>

Presence: [1..1]

Definition: Unique transaction identification generated by the acceptor or the acquirer transported unchanged by the acquirer from the card acceptor to the issuer. It is used to assist locating the original source information. Eventually it could be included in the cardholder statement. It corresponds to ISO 8583, field 37 and CAPE data element TransactionIdentification/TransactionReference.

Datatype: "Max35Text" on page 471

6.4.2.2.5 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: "Max35Text" on page 471

6.4.2.2.6 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Max35Text" on page 471

6.4.2.2.7 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>

Presence: [0..1]

Definition: Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Number" on page 469

6.4.2.2.8 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>

Presence: [0..1]

Definition: Total number of transactions under the same life cycle transaction sequence number.

Datatype: "Number" on page 469

6.4.2.2.9 AcquirerTransactionReference <AcqrrTxRef>

Presence: [0..1]

Definition: Data supplied by an acquirer at clearing time to assist in identifying the original transaction in subsequent messages, for example when researching retrievals and chargebacks. It corresponds to ISO 8583:2003 field number 31, acquirer reference number.

Datatype: "Max35NumericText" on page 471

6.4.2.2.10 CardIssuerReferenceData <CardIssrRefData>

Presence: [0..1]

Definition: Data supplied by a card issuer in response messages or in issuer generated messages, that the acquirer may be required to be provided in subsequent messages. It corresponds to ISO 8583:93 and 2003 field number 95.

Datatype: "Max140Text" on page 470

6.4.2.2.11 OriginalTransaction <OrgnlTx>

Presence: [0..1]

Definition: Identification of the original transaction.

It corresponds to ISO 8583 field number 90 for the version 87, and field number 56 for the other versions.

OriginalTransaction <OrgnlTx> contains the following elements (see "[CardTransaction3](#)" on page 357 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		357
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		358
	InitiatorIdentification <InitrId>	[1..1]	Text		358

6.4.2.2.12 TransactionDetails <TxDtls>

Presence: [1..1]

Definition: Details of the card transaction.

TransactionDetails <TxDtIs> contains the following elements (see "CardTransactionDetail5" on page 226 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			227
	TotalAmount <TtlAmt>	[1..1]	Amount		228
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			228
	Amount <Amt>	[1..1]	Amount		228
	ExchangeRate <XchgRate>	[1..1]	Rate		229
	QuotationDate <QtnDt>	[0..1]	DateTime		229
	Label <Labl>	[0..1]	Text		229
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			229
	Amount <Amt>	[1..1]	Amount		229
	ExchangeRate <XchgRate>	[1..1]	Rate		230
	QuotationDate <QtnDt>	[0..1]	DateTime		230
	Label <Labl>	[0..1]	Text		230
	TransactionFees <TxFees>	[0..*]			230
	Type <Tp>	[1..1]	CodeSet		230
	AdditionalType <AddtlTp>	[0..1]	Text		231
	Amount <Amt>	[1..1]	±		231
	OriginalAmount <OrgnlAmt>	[0..1]	±		231
	AdditionalAmounts <AddtlAmts>	[0..*]			231
	Type <Tp>	[1..1]	CodeSet		231
	AdditionalType <AddtlTp>	[0..1]	Text		232
	Amount <Amt>	[1..1]	Amount		232
	Label <Labl>	[0..1]	Text		232
	MessageReason <MsgRsn>	[1..*]	CodeSet		233
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		234

6.4.2.2.13 TransactionResponse <TxRspn>

Presence: [0..1]

Definition: Response to the reversal.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

6.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		104
	AuthenticatedData <AuthntcdData>	[1..1]	±		104

6.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

6.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData4" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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AcquirerReversalResponse

7.1 MessageDefinition Functionality

The AcquirerReversalResponse message is sent by an issuer or an agent to answer to an AcquirerReversalInitiation message.

Outline

The AcquirerReversalResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. ReversalResponse
Information related to the response of a reversal.
- C. SecurityTrailer
Trailer of the message containing a MAC.

7.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <AcqrrRvslRspn>	[1..1]			
	Header <Hdr>	[1..1]			108
	MessageFunction <MsgFctn>	[1..1]	CodeSet		109
	OriginalMessageFunction <OrgnlMsgFctn>	[1..1]	CodeSet		110
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		111
	ExchangeIdentification <XchgId>	[1..1]	Text		111
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		111
	CreationDateTime <CreDtTm>	[1..1]	DateTime		112
	InitiatingParty <InitgPty>	[1..1]	±		112
	RecipientParty <RcptPty>	[0..1]	±		112
	Traceability <Tracblt>	[0..*]			112
	RelayIdentification <RlayId>	[1..1]	±		113
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		113
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		113
	ReversalResponse <RvslRspn>	[1..1]			113
	Environment <Envnt>	[1..1]			114
	AcquirerIdentification <Acqrrld>	[1..1]	Text		115
	CardSchemeldentification <CardSchmeld>	[0..1]	Text		115
	AcceptorIdentification <Accptrld>	[0..1]	Text		115
	Terminalldentification <Termnlld>	[0..1]	Text		115
	Card <Card>	[1..1]	±		115
	PaymentToken <PmtTkn>	[0..1]	±		115
	Transaction <Tx>	[1..1]			116
	TransactionType <TxTp>	[1..1]	CodeSet		116
	Reconciliation <Rcncltn>	[0..1]	±		117
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		117
	InitiatorTransactionIdentification <InitrTxld>	[1..1]	Text		118
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		118
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		118

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		118
	TransactionDetails <TxDtls>	[1..1]	±		118
	TransactionResponse <TxRspn>	[1..1]	±		119
	SecurityTrailer <SctyTrlr>	[0..1]			120
	ContentType <CnttTp>	[1..1]	CodeSet		120
	AuthenticatedData <AuthntcdData>	[1..1]	±		120

7.3 Constraints

C1 ValidationByTable

(Algorithm)

7.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

7.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		109
	OriginalMessageFunction <OrgnlMsgFctn>	[1..1]	CodeSet		110
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		111
	ExchangeIdentification <XchgId>	[1..1]	Text		111
	ReTransmissionCounter <ReTrnsmssnCntnr>	[0..1]	Text		111
	CreationDateTime <CreDtTm>	[1..1]	DateTime		112
	InitiatingParty <InitgPty>	[1..1]	±		112
	RecipientParty <RcptPty>	[0..1]	±		112
	Traceability <Tracblt>	[0..*]			112
	RelayIdentification <RlayId>	[1..1]	±		113
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		113
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		113

7.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.

CodeName	Name	Definition
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

7.4.1.2 OriginalMessageFunction <OrgnIMsgFctn>

Presence: [1..1]

Definition: Identifies the type of process related to the message which has to be reversed.

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.

CodeName	Name	Definition
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

7.4.1.3 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

7.4.1.4 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

7.4.1.5 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by 1 for each retransmission.

Datatype: "Max3NumericText" on page 471

7.4.1.6 CreationDateTime <CreDtTm>*Presence:* [1..1]*Definition:* Date and time at which the message was created.*Datatype:* "ISODateTime" on page 467**7.4.1.7 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.**InitiatingParty <InitgPty>** contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

7.4.1.8 RecipientParty <RcptPty>*Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.**RecipientParty <RcptPty>** contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

7.4.1.9 Traceability <Tracblt>*Presence:* [0..*]*Definition:* Identification of partners involved in exchange from the merchant to the issuer, with the relative timestamp of their exchanges.

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		113
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		113
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		113

7.4.1.9.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

7.4.1.9.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

7.4.1.9.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

7.4.2 ReversalResponse <RvslRspn>

Presence: [1..1]

Definition: Information related to the response of a reversal.

ReversalResponse <RvslRspn> contains the following **AcquirerReversalResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			114
	AcquirerIdentification <Acqrrld>	[1..1]	Text		115
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		115
	AcceptorIdentification <Accptrld>	[0..1]	Text		115
	TerminalIdentification <Termnlld>	[0..1]	Text		115
	Card <Card>	[1..1]	±		115
	PaymentToken <PmtTkn>	[0..1]	±		115
	Transaction <Tx>	[1..1]			116
	TransactionType <TxTp>	[1..1]	CodeSet		116
	Reconciliation <Rcncltn>	[0..1]	±		117
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		117
	InitiatorTransactionIdentification <InitrTxld>	[1..1]	Text		118
	TransactionLifeCycleIdentification <TxLifeCyclld>	[0..1]	Text		118
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		118
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		118
	TransactionDetails <TxDtls>	[1..1]	±		118
	TransactionResponse <TxRspn>	[1..1]	±		119

7.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcquirerIdentification <Acqrrld>	[1..1]	Text		115
	CardSchemeIdentification <CardSchmeld>	[0..1]	Text		115
	AcceptorIdentification <Accptrld>	[0..1]	Text		115
	TerminalIdentification <Termnlld>	[0..1]	Text		115
	Card <Card>	[1..1]	±		115
	PaymentToken <PmtTkn>	[0..1]	±		115

7.4.2.1.1 AcquirerIdentification <AcqrrId>*Presence:* [1..1]*Definition:* Acquirer identification of the card transaction.*Datatype:* "Max35Text" on page 471**7.4.2.1.2 CardSchemeIdentification <CardSchmId>***Presence:* [0..1]*Definition:* Identification of the interconnected card scheme from which the request is coming.*Datatype:* "Max35Text" on page 471**7.4.2.1.3 AcceptorIdentification <AccepId>***Presence:* [0..1]*Definition:* Identification of the card acceptor performing the transaction.*Datatype:* "Max35Text" on page 471**7.4.2.1.4 TerminalIdentification <TermnId>***Presence:* [0..1]*Definition:* Identification of the card terminal performing the transaction.*Datatype:* "Max35Text" on page 471**7.4.2.1.5 Card <Card>***Presence:* [1..1]*Definition:* Card performing the transaction.**Card <Card>** contains the following elements (see "PaymentCard15" on page 421 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		421
	PlainCardData <PlainCardData>	[0..1]			421
	PAN <PAN>	[1..1]	Text		422
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		422
	ExpiryDate <XpryDt>	[0..1]	Text		422
	MaskedPAN <MskdPAN>	[0..1]	Text		422
	CardProductType <CardPdctTp>	[0..1]	CodeSet		422
	CardProductName <CardPdctNm>	[0..1]	Text		423

7.4.2.1.6 PaymentToken <PmtTkn>*Presence:* [0..1]*Definition:* Payment token information.

PaymentToken <PmtTkn> contains the following elements (see "CardPaymentToken2" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TokenCharacteristic <TknChrtc>	[0..*]	Text		209
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		209

7.4.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Reversal card transaction.

Transaction <Tx> contains the following **CardTransaction8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		116
	Reconciliation <Rcncltn>	[0..1]	±		117
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		117
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		118
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		118
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		118
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		118
	TransactionDetails <TxDtls>	[1..1]	±		118
	TransactionResponse <TxRspn>	[1..1]	±		119

7.4.2.2.1 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583, field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.

CodeName	Name	Definition
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

7.4.2.2.2 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see "[TransactionIdentifier2](#)" on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

7.4.2.2.3 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583, field number 12.

Datatype: "ISODateTime" on page 467

7.4.2.2.4 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: "Max35Text" on page 471

7.4.2.2.5 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Max35Text" on page 471

7.4.2.2.6 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>

Presence: [0..1]

Definition: Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003, field number 21.

Datatype: "Number" on page 469

7.4.2.2.7 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>

Presence: [0..1]

Definition: Total number of transactions under the same life cycle transaction sequence number.

Datatype: "Number" on page 469

7.4.2.2.8 TransactionDetails <TxDtIs>

Presence: [1..1]

Definition: Details of the card transaction.

TransactionDetails <TxDtIs> contains the following elements (see "CardTransactionDetail6" on page 215 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			216
	TotalAmount <TtlAmt>	[1..1]	Amount		217
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			217
	Amount <Amt>	[1..1]	Amount		217
	ExchangeRate <XchgRate>	[1..1]	Rate		218
	QuotationDate <QtnDt>	[0..1]	DateTime		218
	Label <Lbl>	[0..1]	Text		218
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			218
	Amount <Amt>	[1..1]	Amount		218
	ExchangeRate <XchgRate>	[1..1]	Rate		219
	QuotationDate <QtnDt>	[0..1]	DateTime		219
	Label <Lbl>	[0..1]	Text		219
	TransactionFees <TxFees>	[0..*]			219
	Type <Tp>	[1..1]	CodeSet		219
	AdditionalType <AddtlTp>	[0..1]	Text		220
	Amount <Amt>	[1..1]	±		220
	OriginalAmount <OrgnlAmt>	[0..1]	±		220
	AdditionalAmounts <AddtlAmts>	[0..*]			220
	Type <Tp>	[1..1]	CodeSet		220
	AdditionalType <AddtlTp>	[0..1]	Text		221
	Amount <Amt>	[1..1]	Amount		221
	Label <Lbl>	[0..1]	Text		221
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		222

7.4.2.2.9 TransactionResponse <TxRspn>

Presence: [1..1]

Definition: Response to the reversal.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

7.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		120
	AuthenticatedData <AuthntcdData>	[1..1]	±		120

7.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

7.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData4" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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ReconciliationInitiation

8.1 MessageDefinition Functionality

The ReconciliationInitiation message is sent by an acquirer or an agent to an issuer or an agent, to initiate an exchange of totals to be reconciled for debits, credits, chargebacks and other transactions.

Outline

The ReconciliationInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. ReconciliationInitiation
Information related to the reconciliation.
- C. SecurityTrailer
Trailer of the message containing a MAC.

8.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <RcncltnInitt>	[1..1]			
	Header <Hdr>	[1..1]			124
	MessageFunction <MsgFctn>	[1..1]	CodeSet		124
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		126
	ExchangeIdentification <XchgId>	[1..1]	Text		126
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		126
	CreationDateTime <CreDtTm>	[1..1]	DateTime		126
	InitiatingParty <InittgPty>	[1..1]	±		126
	RecipientParty <RcptPty>	[0..1]	±		127
	Traceability <Tracblt>	[0..*]			127
	RelayIdentification <RlayId>	[1..1]	±		127
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		128
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		128
	ReconciliationInitiation <RcncltnInitt>	[1..1]			128
	Environment <Envnt>	[1..1]			128
	SendingInstitution <SndgInstn>	[1..1]	±		129
	ReceivingInstitution <RcvgInstn>	[1..1]	±		129
	SettlementInstitution <SttlmInstn>	[1..1]	±		129
	Transaction <Tx>	[1..1]			130
	ReconciliationType <RcncltnTp>	[0..1]	CodeSet		130
	Reconciliation <Rcncltn>	[0..1]	±		130
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		131
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		131
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		131
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		131
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		131
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		132
	TransactionResponse <TxRspn>	[0..1]	±		133
	SecurityTrailer <SctyTrlr>	[0..1]			133
	ContentType <CnttTp>	[1..1]	CodeSet		133

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticatedData <AuthntcdData>	[1..1]	±		134

8.3 Constraints

C1 ValidationByTable
(Algorithm)

8.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

8.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		124
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		126
	ExchangeIdentification <XchgId>	[1..1]	Text		126
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		126
	CreationDateTime <CreDtTm>	[1..1]	DateTime		126
	InitiatingParty <InitgPty>	[1..1]	±		126
	RecipientParty <RcptPty>	[0..1]	±		127
	Traceability <Tracblt>	[0..*]			127
	RelayIdentification <RlayId>	[1..1]	±		127
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		128
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		128

8.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.

CodeName	Name	Definition
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.

CodeName	Name	Definition
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

8.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

8.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

8.4.1.4 ReTransmissionCounter <ReTrnsmssnCntr>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

8.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

8.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

8.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

8.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		127
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		128
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		128

8.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

8.4.1.8.2 TraceDateTimeln <TracDtTmln>*Presence:* [1..1]*Definition:* Date and time of incoming data exchange for relaying or processing.*Datatype:* "ISODatetime" on page 467**8.4.1.8.3 TraceDateTimeout <TracDtTmOut>***Presence:* [1..1]*Definition:* Date and time of the outgoing exchange for relaying or processing.*Datatype:* "ISODatetime" on page 467**8.4.2 ReconciliationInitiation <RcncltnInlt>***Presence:* [1..1]*Definition:* Information related to the reconciliation.**ReconciliationInitiation <RcncltnInlt>** contains the following **AcquirerReconciliationInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			128
	SendingInstitution <SndglInstn>	[1..1]	±		129
	ReceivingInstitution <RcvglInstn>	[1..1]	±		129
	SettlementInstitution <SttlmInstn>	[1..1]	±		129
	Transaction <Tx>	[1..1]			130
	ReconciliationType <RcncltnTp>	[0..1]	CodeSet		130
	Reconciliation <Rcncltn>	[0..1]	±		130
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		131
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		131
	InitiatorTransactionIdentification <InitrTxld>	[1..1]	Text		131
	TransactionLifeCycleIdentification <TxLifeCyclld>	[0..1]	Text		131
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		131
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		132
	TransactionResponse <TxRspr>	[0..1]	±		133

8.4.2.1 Environment <Envt>*Presence:* [1..1]*Definition:* Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		129
	ReceivingInstitution <RcvgInstn>	[1..1]	±		129
	SettlementInstitution <SttlmInstn>	[1..1]	±		129

8.4.2.1.1 SendingInstitution <SndgInstn>

Presence: [1..1]

Definition: Institution initiator of the reconciliation.

It corresponds to the ISO 8583 field number 94.

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

8.4.2.1.2 ReceivingInstitution <RcvgInstn>

Presence: [1..1]

Definition: Institution destination of the reconciliation.

It corresponds to the ISO 8583 field number 93.

ReceivingInstitution <RcvgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

8.4.2.1.3 SettlementInstitution <SttlmInstn>

Presence: [1..1]

Definition: Institution in charge of the settlement of the transaction.

SettlementInstitution <SttlmInstn> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

8.4.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Reconciliation transaction.

Transaction <Tx> contains the following **CardTransaction9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationType <RcncltnTp>	[0..1]	CodeSet		130
	Reconciliation <Rcncltn>	[0..1]	±		130
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		131
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		131
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		131
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		131
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		131
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		132
	TransactionResponse <TxRspn>	[0..1]	±		133

8.4.2.2.1 ReconciliationType <RcncltnTp>

Presence: [0..1]

Definition: Type of reconciliation.

Datatype: "CardServiceType1Code" on page 446

CodeName	Name	Definition
PART	CheckPoint	Partial reconciliation of the day.
FINL	Final	Final reconciliation.
PRVS	TotalInquiry	Request for totals of a previous reconciliation.

8.4.2.2.2 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see ["TransactionIdentifier2"](#) on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

8.4.2.2.3 InterBankSettlementDate <IntrBkSttImDt>

Presence: [0..1]

Definition: Date when the settlement is expected.

Datatype: ["ISODate"](#) on page 466

8.4.2.2.4 InitiatorTransactionDateTime <InitrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction.

Datatype: ["ISODatetime"](#) on page 467

8.4.2.2.5 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: ["Max35Text"](#) on page 471

8.4.2.2.6 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: ["Max35Text"](#) on page 471

8.4.2.2.7 ReconciliationTotals <RcncltnTtls>

Presence: [0..1]

Definition: Totals of the reconciliation.

ReconciliationTotals <RcncltnTtls> contains the following elements (see "TransactionTotals4" on page 210 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalCredit <TtlCdt>	[1..1]			211
	Amount <Amt>	[1..1]	Amount		212
	Number <Nb>	[1..1]	Quantity		212
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		212
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		212
	ReversalAmount <RvslAmt>	[1..1]	Amount		212
	ReversalNumber <RvslNb>	[1..1]	Quantity		212
	FeeAmounts <FeeAmts>	[0..1]	Amount		213
	TotalDebit <TtlDbt>	[1..1]			213
	Amount <Amt>	[1..1]	Amount		213
	Number <Nb>	[1..1]	Quantity		213
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		213
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		213
	ReversalAmount <RvslAmt>	[1..1]	Amount		214
	ReversalNumber <RvslNb>	[1..1]	Quantity		214
	FeeAmounts <FeeAmts>	[0..1]	Amount		214
	TotalNumber <TtlNb>	[0..1]			214
	Authorisation <Authstn>	[0..1]	Quantity		214
	AuthorisationReversal <AuthstnRvsl>	[0..1]	Quantity		214
	Inquiry <Nqry>	[0..1]	Quantity		215
	InquiryReversal <NqryRvsl>	[0..1]	Quantity		215
	Payments <Pmts>	[0..1]	Quantity		215
	PaymentReversal <PmtRvsl>	[0..1]	Quantity		215
	Transfer <Trf>	[0..1]	Quantity		215
	TransferReversal <TrfRvsl>	[0..1]	Quantity		215
	FeeCollection <FeeColltn>	[0..1]	Quantity		215

8.4.2.2.8 AmountNetReconciliation <AmtNetRcncltn>

Presence: [0..1]

Definition: Net value of all gross amounts.

AmountNetReconciliation <AmtNetRcncltn> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

8.4.2.2.9 TransactionResponse <TxRspn>

Presence: [0..1]

Definition: Response to the reconciliation.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

8.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		133
	AuthenticatedData <AuthntcdData>	[1..1]	±		134

8.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).

CodeName	Name	Definition
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

8.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

9 cain.008.001.01 ReconciliationResponse

9.1 MessageDefinition Functionality

The ReconciliationResponse message is sent by an issuer or an agent to return the reconciled totals for debits, credits, chargebacks and other transactions.

Outline

The ReconciliationResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. ReconciliationResponse
Information related to the response to a reconciliation.
- C. SecurityTrailer
Trailer of the message containing a MAC.

9.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <RcncltnRspn>	[1..1]			
	Header <Hdr>	[1..1]			137
	MessageFunction <MsgFctn>	[1..1]	CodeSet		137
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		139
	ExchangeIdentification <XchgId>	[1..1]	Text		139
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		139
	CreationDateTime <CreDtTm>	[1..1]	DateTime		139
	InitiatingParty <InitgPty>	[1..1]	±		139
	RecipientParty <RcptPty>	[0..1]	±		139
	Traceability <Tracblt>	[0..*]			140
	RelayIdentification <RlayId>	[1..1]	±		140
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		140
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		141
	ReconciliationResponse <RcncltnRspn>	[1..1]			141
	Environment <Envnt>	[1..1]			141
	SendingInstitution <SndgInstn>	[1..1]	±		142
	ReceivingInstitution <RcvgInstn>	[1..1]	±		142
	SettlementInstitution <SttlmInstn>	[1..1]	±		142
	Transaction <Tx>	[1..1]			143
	Reconciliation <Rcncltn>	[0..1]	±		143
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		143
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		144
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		144
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		144
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		144
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		145
	TransactionResponse <TxRspn>	[1..1]	±		146
	SecurityTrailer <SctyTrlr>	[0..1]			146
	ContentType <CnttTp>	[1..1]	CodeSet		146
	AuthenticatedData <AuthntcdData>	[1..1]	±		147

9.3 Constraints

C1 ValidationByTable
(Algorithm)

9.4 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

9.4.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		137
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		139
	ExchangeIdentification <XchgId>	[1..1]	Text		139
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		139
	CreationDateTime <CreDtTm>	[1..1]	DateTime		139
	InitiatingParty <InitgPty>	[1..1]	±		139
	RecipientParty <RcptPty>	[0..1]	±		139
	Traceability <Tracblt>	[0..*]			140
	RelayIdentification <RlayId>	[1..1]	±		140
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		140
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		141

9.4.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.

CodeName	Name	Definition
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

9.4.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

9.4.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

9.4.1.4 ReTransmissionCounter <ReTrnsmssnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

9.4.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

9.4.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

9.4.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

9.4.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		140
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		140
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		141

9.4.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

9.4.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

9.4.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

9.4.2 ReconciliationResponse <RcncltnRspn>

Presence: [1..1]

Definition: Information related to the response to a reconciliation.

ReconciliationResponse <RcncltnRspn> contains the following **AcquirerReconciliationResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			141
	SendingInstitution <SndgInstn>	[1..1]	±		142
	ReceivingInstitution <RcvgInstn>	[1..1]	±		142
	SettlementInstitution <SttlmInstn>	[1..1]	±		142
	Transaction <Tx>	[1..1]			143
	Reconciliation <Rcncltn>	[0..1]	±		143
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		143
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		144
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		144
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		144
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		144
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		145
	TransactionResponse <TxRspn>	[1..1]	±		146

9.4.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		142
	ReceivingInstitution <RcvgInstn>	[1..1]	±		142
	SettlementInstitution <SttlmInstn>	[1..1]	±		142

9.4.2.1.1 SendingInstitution <SndgInstn>*Presence:* [1..1]*Definition:* Institution initiator of the reconciliation.

It corresponds to the ISO 8583 field number 94.

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on [page 201](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

9.4.2.1.2 ReceivingInstitution <RcvgInstn>*Presence:* [1..1]*Definition:* Institution destination of the reconciliation.

It corresponds to the ISO 8583 field number 93.

ReceivingInstitution <RcvgInstn> contains the following elements (see "[GenericIdentification73](#)" on [page 201](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

9.4.2.1.3 SettlementInstitution <SttlmInstn>*Presence:* [1..1]*Definition:* Institution in charge of the settlement of the transaction.

SettlementInstitution <SttlmInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

9.4.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Reconciliation transaction.

Transaction <Tx> contains the following **CardTransaction10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Reconciliation <Rcncltn>	[0..1]	±		143
	InterBankSettlementDate <IntrBkSttlmDt>	[0..1]	Date		143
	InitiatorTransactionDateTime <InitrTxDtTm>	[1..1]	DateTime		144
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		144
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		144
	ReconciliationTotals <RcncltnTtls>	[0..1]	±		144
	AmountNetReconciliation <AmtNetRcncltn>	[0..1]	±		145
	TransactionResponse <TxRspn>	[1..1]	±		146

9.4.2.2.1 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see "[TransactionIdentifier2](#)" on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

9.4.2.2.2 InterBankSettlementDate <IntrBkSttlmDt>

Presence: [0..1]

Definition: Date when the settlement is expected.

Datatype: "ISODate" on page 466

9.4.2.2.3 InitiatorTransactionDateTime <InitrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction.

Datatype: "ISODateTime" on page 467

9.4.2.2.4 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: "Max35Text" on page 471

9.4.2.2.5 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Max35Text" on page 471

9.4.2.2.6 ReconciliationTotals <RcncltnTtls>

Presence: [0..1]

Definition: Totals of the reconciliation.

ReconciliationTotals <RcncltnTtls> contains the following elements (see "TransactionTotals4" on page 210 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalCredit <TtlCdt>	[1..1]			211
	Amount <Amt>	[1..1]	Amount		212
	Number <Nb>	[1..1]	Quantity		212
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		212
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		212
	ReversalAmount <RvslAmt>	[1..1]	Amount		212
	ReversalNumber <RvslNb>	[1..1]	Quantity		212
	FeeAmounts <FeeAmts>	[0..1]	Amount		213
	TotalDebit <TtlDbt>	[1..1]			213
	Amount <Amt>	[1..1]	Amount		213
	Number <Nb>	[1..1]	Quantity		213
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		213
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		213
	ReversalAmount <RvslAmt>	[1..1]	Amount		214
	ReversalNumber <RvslNb>	[1..1]	Quantity		214
	FeeAmounts <FeeAmts>	[0..1]	Amount		214
	TotalNumber <TtlNb>	[0..1]			214
	Authorisation <Authstn>	[0..1]	Quantity		214
	AuthorisationReversal <AuthstnRvsl>	[0..1]	Quantity		214
	Inquiry <Nqry>	[0..1]	Quantity		215
	InquiryReversal <NqryRvsl>	[0..1]	Quantity		215
	Payments <Pmts>	[0..1]	Quantity		215
	PaymentReversal <PmtRvsl>	[0..1]	Quantity		215
	Transfer <Trf>	[0..1]	Quantity		215
	TransferReversal <TrfRvsl>	[0..1]	Quantity		215
	FeeCollection <FeeColltn>	[0..1]	Quantity		215

9.4.2.2.7 AmountNetReconciliation <AmtNetRcncltn>

Presence: [0..1]

Definition: Net value of all gross amounts.

AmountNetReconciliation <AmtNetRcncltn> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

9.4.2.2.8 TransactionResponse <TxRspn>

Presence: [1..1]

Definition: Response to the reconciliation.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

9.4.3 SecurityTrailer <SctyTrlr>

Presence: [0..1]

Definition: Trailer of the message containing a MAC.

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		146
	AuthenticatedData <AuthntcdData>	[1..1]	±		147

9.4.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

CodeName	Name	Definition
DATA	PlainData	Generic, non cryptographic, or unqualified data content - (ASN.1 Object Identifier: id-data).
SIGN	SignedData	Digital signature - (ASN.1 Object Identifier: id-signedData).
EVLP	EnvelopedData	Encrypted data, with encryption key - (ASN.1 Object Identifier: id-envelopedData).

CodeName	Name	Definition
DGST	DigestedData	Message digest - (ASN.1 Object Identifier: id-digestedData).
AUTH	AuthenticatedData	MAC (Message Authentication Code), with encryption key - (ASN.1 Object Identifier: id-ct-authData).

9.4.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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NetworkManagementInitiation

10.1 MessageDefinition Functionality

The NetworkManagementInitiation message covers the range of activities to control the operating condition of the network and may be initiated by any party to an acquirer, an issuer or an agent.

Outline

The NetworkManagementInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. NetworkManagementInitiation
Information related to the network management.
- C. SecurityTrailer
Trailer of the message containing a MAC.

10.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <NtwkMgmtInittn>	[1..1]			
	Header <Hdr>	[1..1]			150
	MessageFunction <MsgFctn>	[1..1]	CodeSet		150
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		151
	ExchangeIdentification <XchgId>	[1..1]	Text		151
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		152
	CreationDateTime <CreDtTm>	[1..1]	DateTime		152
	InitiatingParty <InitgPty>	[1..1]	±		152
	RecipientParty <RcptPty>	[0..1]	±		152
	Traceability <Tracblt>	[0..*]			153
	RelayIdentification <RlayId>	[1..1]	±		153
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		153
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		153
	NetworkManagementInitiation <NtwkMgmtInittn>	[1..1]			153
	Environment <Envnt>	[1..1]			154
	SendingInstitution <SndgInstn>	[1..1]	±		154
	ReceivingInstitution <RcvgInstn>	[1..1]	±		154
	Transaction <Tx>	[1..1]			155
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		155
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		156
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		156
	InitiatorDateTime <InitrDtTm>	[0..1]	DateTime		156
	TransactionResponse <TxRspn>	[0..1]	±		156
	SecurityTrailer <SctyTrlr>	[0..1]			156
	ContentType <CnttTp>	[1..1]	CodeSet		156
	AuthenticatedData <AuthntcdData>	[1..1]	±		157

10.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

10.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		150
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		151
	ExchangeIdentification <XchgId>	[1..1]	Text		151
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		152
	CreationDateTime <CreDtTm>	[1..1]	DateTime		152
	InitiatingParty <InitgPty>	[1..1]	±		152
	RecipientParty <RcptPty>	[0..1]	±		152
	Traceability <Tracblt>	[0..*]			153
	RelayIdentification <RlayId>	[1..1]	±		153
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		153
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		153

10.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.

CodeName	Name	Definition
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

10.3.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

10.3.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

10.3.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

10.3.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

10.3.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

10.3.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

10.3.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		153
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		153
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		153

10.3.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

10.3.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

10.3.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

10.3.2 NetworkManagementInitiation <NtwkMgmtInitn>

Presence: [1..1]

Definition: Information related to the network management.

NetworkManagementInitiation <NtwkMgmtInitn> contains the following **AcquirerNetworkManagementInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			154
	SendingInstitution <SndgInstn>	[1..1]	±		154
	ReceivingInstitution <RcvgInstn>	[1..1]	±		154
	Transaction <Tx>	[1..1]			155
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		155
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		156
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		156
	InitiatorDateTime <IntrDtTm>	[0..1]	DateTime		156
	TransactionResponse <TxRspn>	[0..1]	±		156

10.3.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		154
	ReceivingInstitution <RcvgInstn>	[1..1]	±		154

10.3.2.1.1 SendingInstitution <SndgInstn>

Presence: [1..1]

Definition: Institution initiator of the reconciliation (correspond to the ISO 8583 field 94).

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

10.3.2.1.2 ReceivingInstitution <RcvgInstn>

Presence: [1..1]

Definition: Institution destination of the reconciliation (correspond to the ISO 8583 field 93).

ReceivingInstitution <RcvgInstn> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

10.3.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Network management transaction.

Transaction <Tx> contains the following **CardTransaction11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		155
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		156
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		156
	InitiatorDateTime <InitrDtTm>	[0..1]	DateTime		156
	TransactionResponse <TxRspn>	[0..1]	±		156

10.3.2.2.1 NetworkManagementType <NtwkMgmtTp>

Presence: [1..1]

Definition: Type of network management service (correspond to the ISO 8583 field 24)

Datatype: "CardServiceType2Code" on page 447

CodeName	Name	Definition
SFDS	DisableStoreForward	Close communication at application level to stop store and forward process.
ECHO	EchoTest	Detection whether communication at application level is still active.
SFEN	EnableStoreForward	Establish communication at application level to start store and forward process.
SGNF	SignOff	Terminate communication at application level.
SGNN	SignOn	Establish communication at application level.

10.3.2.2.2 NumberOfMessages <NbOfMsgs>*Presence:* [0..1]*Definition:* Number of messages in the store and forward queue.*Datatype:* "Number" on page 469**10.3.2.2.3 MaximumNumberOfMessages <MaxNbOfMsgs>***Presence:* [0..1]*Definition:* Maximum number of messages in the store and forward queue.*Datatype:* "Number" on page 469**10.3.2.2.4 InitiatorDateTime <IntrDtTm>***Presence:* [0..1]*Definition:* Date and time of the transaction.*Datatype:* "ISODateTime" on page 467**10.3.2.2.5 TransactionResponse <TxRspn>***Presence:* [0..1]*Definition:* Response to the network management request.**TransactionResponse <TxRspn>** contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <RsIt>	[1..1]	CodeSet		222
	ResultDetails <RsItDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsItInf>	[0..1]	Text		226

10.3.3 SecurityTrailer <SctyTrlr>*Presence:* [0..1]*Definition:* Trailer of the message containing a MAC.**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		156
	AuthenticatedData <AuthntcdData>	[1..1]	±		157

10.3.3.1 ContentType <CnttTp>*Presence:* [1..1]*Definition:* Type of data protection.*Datatype:* "ContentType2Code" on page 448

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

10.3.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on [page 405](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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NetworkManagementResponse

11.1 MessageDefinition Functionality

The NetworkManagementResponse message is sent by an acquirer, an issuer or an agent to answer to an NetworkManagementInitiation message.

Outline

The NetworkManagementResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. NetworkManagementResponse
Information related to the response to the network management.
- C. SecurityTrailer
Trailer of the message containing a MAC.

11.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <NtwkMgmtRspn>	[1..1]			
	Header <Hdr>	[1..1]			160
	MessageFunction <MsgFctn>	[1..1]	CodeSet		160
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		161
	ExchangeIdentification <XchgId>	[1..1]	Text		161
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		162
	CreationDateTime <CreDtTm>	[1..1]	DateTime		162
	InitiatingParty <InitgPty>	[1..1]	±		162
	RecipientParty <RcptPty>	[0..1]	±		162
	Traceability <Tracblt>	[0..*]			163
	RelayIdentification <RlayId>	[1..1]	±		163
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		163
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		163
	NetworkManagementResponse <NtwkMgmtRspn>	[1..1]			163
	Environment <Envt>	[1..1]			164
	SendingInstitution <SndgInstn>	[1..1]	±		164
	ReceivingInstitution <RcvgInstn>	[1..1]	±		164
	Transaction <Tx>	[1..1]			165
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		165
	InitiatorDateTime <InitrDtTm>	[0..1]	DateTime		166
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		166
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		166
	TransactionResponse <TxRspn>	[1..1]	±		166
	SecurityTrailer <SctyTrlr>	[0..1]			166
	ContentType <CnttTp>	[1..1]	CodeSet		166
	AuthenticatedData <AuthntcdData>	[1..1]	±		167

11.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

11.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		160
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		161
	ExchangeIdentification <XchgId>	[1..1]	Text		161
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		162
	CreationDateTime <CreDtTm>	[1..1]	DateTime		162
	InitiatingParty <InitgPty>	[1..1]	±		162
	RecipientParty <RcptPty>	[0..1]	±		162
	Traceability <Tracblt>	[0..*]			163
	RelayIdentification <RlayId>	[1..1]	±		163
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		163
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		163

11.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.

CodeName	Name	Definition
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

11.3.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

11.3.1.3 ExchangeIdentification <XchgId>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

11.3.1.4 ReTransmissionCounter <ReTrnsmsnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

11.3.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

11.3.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

11.3.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

11.3.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		163
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		163
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		163

11.3.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

11.3.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

11.3.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

11.3.2 NetworkManagementResponse <NtwkMgmtRspn>

Presence: [1..1]

Definition: Information related to the response to the network management.

NetworkManagementResponse <NtwkMgmtRspn> contains the following **AcquirerNetworkManagementResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			164
	SendingInstitution <SndgInstn>	[1..1]	±		164
	ReceivingInstitution <RcvgInstn>	[1..1]	±		164
	Transaction <Tx>	[1..1]			165
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		165
	InitiatorDateTime <IntrDtTm>	[0..1]	DateTime		166
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		166
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		166
	TransactionResponse <TxRspn>	[1..1]	±		166

11.3.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		164
	ReceivingInstitution <RcvgInstn>	[1..1]	±		164

11.3.2.1.1 SendingInstitution <SndgInstn>

Presence: [1..1]

Definition: Institution initiator of the reconciliation (correspond to the ISO 8583 field 94).

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

11.3.2.1.2 ReceivingInstitution <RcvgInstn>

Presence: [1..1]

Definition: Institution destination of the reconciliation (correspond to the ISO 8583 field 93).

ReceivingInstitution <RcvgInstn> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

11.3.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Network management transaction.

Transaction <Tx> contains the following **CardTransaction12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	NetworkManagementType <NtwkMgmtTp>	[1..1]	CodeSet		165
	InitiatorDateTime <InitrDtTm>	[0..1]	DateTime		166
	NumberOfMessages <NbOfMsgs>	[0..1]	Quantity		166
	MaximumNumberOfMessages <MaxNbOfMsgs>	[0..1]	Quantity		166
	TransactionResponse <TxRspn>	[1..1]	±		166

11.3.2.2.1 NetworkManagementType <NtwkMgmtTp>

Presence: [1..1]

Definition: Type of network management service (correspond to the ISO 8583 field 24)

Datatype: "CardServiceType2Code" on page 447

CodeName	Name	Definition
SFDS	DisableStoreForward	Close communication at application level to stop store and forward process.
ECHO	EchoTest	Detection whether communication at application level is still active.
SFEN	EnableStoreForward	Establish communication at application level to start store and forward process.
SGNF	SignOff	Terminate communication at application level.
SGNN	SignOn	Establish communication at application level.

11.3.2.2.2 InitiatorDateTime <IntrDtTm>*Presence:* [0..1]*Definition:* Date and time of the transaction.*Datatype:* "ISODatetime" on page 467**11.3.2.2.3 NumberOfMessages <NbOfMsgs>***Presence:* [0..1]*Definition:* Number of messages in the store and forward queue.*Datatype:* "Number" on page 469**11.3.2.2.4 MaximumNumberOfMessages <MaxNbOfMsgs>***Presence:* [0..1]*Definition:* Maximum number of messages in the store and forward queue.*Datatype:* "Number" on page 469**11.3.2.2.5 TransactionResponse <TxRspn>***Presence:* [1..1]*Definition:* Response to the network management request.**TransactionResponse <TxRspn>** contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <RsIt>	[1..1]	CodeSet		222
	ResultDetails <RsItDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsItInf>	[0..1]	Text		226

11.3.3 SecurityTrailer <SctyTrlr>*Presence:* [0..1]*Definition:* Trailer of the message containing a MAC.**SecurityTrailer <SctyTrlr>** contains the following **ContentInformationType15** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		166
	AuthenticatedData <AuthntcdData>	[1..1]	±		167

11.3.3.1 ContentType <CnttTp>*Presence:* [1..1]*Definition:* Type of data protection.*Datatype:* "ContentType2Code" on page 448

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

11.3.3.2 AuthenticatedData <AuthntcdData>

Presence: [1..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "[AuthenticatedData4](#)" on [page 405](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

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KeyExchangeInitiation

12.1 MessageDefinition Functionality

The KeyExchangeInitiation message is sent by any party to an acquirer, an issuer or an agent, to initiate a cryptographic key exchange.

Outline

The KeyExchangeInitiation MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
 - Information related to the protocol management.
- B. KeyExchangeInitiation
 - Information related to the key exchange.
- C. SecurityTrailer
 - Trailer of the message containing a MAC or a digital signature.

12.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <KeyXchgInitn>	[1..1]			
	Header <Hdr>	[1..1]			169
	MessageFunction <MsgFctn>	[1..1]	CodeSet		170
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		171
	ExchangeIdentification <XchgId>	[1..1]	Text		171
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		172
	CreationDateTime <CreDtTm>	[1..1]	DateTime		172
	InitiatingParty <InitgPty>	[1..1]	±		172
	RecipientParty <RcptPty>	[0..1]	±		172
	Traceability <Tracblt>	[0..*]			172
	RelayIdentification <RlayId>	[1..1]	±		173
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		173
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		173
	KeyExchangeInitiation <KeyXchgInitn>	[1..1]			173
	Environment <Envnt>	[1..1]			174
	SendingInstitution <SndgInstn>	[1..1]	±		174
	ReceivingInstitution <RcvgInstn>	[1..1]	±		174
	Transaction <Tx>	[1..1]			175
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		175
	InitiatorDateTime <InitrDtTm>	[1..1]	DateTime		175
	RequestedKey <ReqdKey>	[0..*]	±		176
	Key <Key>	[0..*]	±		176
	TransactionResponse <TxRspn>	[0..1]	±		176
	SecurityTrailer <SctyTrlr>	[1..1]	±		177

12.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

12.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		170
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		171
	ExchangeIdentification <XchgId>	[1..1]	Text		171
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		172
	CreationDateTime <CreDtTm>	[1..1]	DateTime		172
	InitiatingParty <InitgPty>	[1..1]	±		172
	RecipientParty <RcptPty>	[0..1]	±		172
	Traceability <Tracblt>	[0..*]			172
	RelayIdentification <RlayId>	[1..1]	±		173
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		173
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		173

12.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.

CodeName	Name	Definition
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

12.3.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

12.3.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

12.3.1.4 ReTransmissionCounter <ReTrnsmssnCntr>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by one for each retransmission.

Datatype: "Max3NumericText" on page 471

12.3.1.5 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

12.3.1.6 InitiatingParty <InitgPty>

Presence: [1..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

12.3.1.7 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

12.3.1.8 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		173
	TraceDateTimeln <TracDtTmln>	[1..1]	DateTime		173
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		173

12.3.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

12.3.1.8.2 TraceDateTimeln <TracDtTmln>

Presence: [1..1]

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

Datatype: "[ISODateTime](#)" on page 467

12.3.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODateTime](#)" on page 467

12.3.2 KeyExchangeInitiation <KeyXchgInItN>

Presence: [1..1]

Definition: Information related to the key exchange.

KeyExchangeInitiation <KeyXchgInIt> contains the following **AcquirerKeyExchangeInitiation1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			174
	SendingInstitution <SndgInstn>	[1..1]	±		174
	ReceivingInstitution <RcvgInstn>	[1..1]	±		174
	Transaction <Tx>	[1..1]			175
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		175
	InitiatorDateTime <IntrDtTm>	[1..1]	DateTime		175
	RequestedKey <ReqdKey>	[0..*]	±		176
	Key <Key>	[0..*]	±		176
	TransactionResponse <TxRspr>	[0..1]	±		176

12.3.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		174
	ReceivingInstitution <RcvgInstn>	[1..1]	±		174

12.3.2.1.1 SendingInstitution <SndgInstn>

Presence: [1..1]

Definition: Institution initiator of the reconciliation (correspond to the ISO 8583 field 94).

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

12.3.2.1.2 ReceivingInstitution <RcvgInstn>

Presence: [1..1]

Definition: Institution destination of the reconciliation (correspond to the ISO 8583 field 93).

ReceivingInstitution <RcvgInstn> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

12.3.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Key exchange transaction.

Transaction <Tx> contains the following **CardTransaction13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		175
	InitiatorDateTime <InitrDtTm>	[1..1]	DateTime		175
	RequestedKey <ReqdKey>	[0..*]	±		176
	Key <Key>	[0..*]	±		176
	TransactionResponse <TxRspn>	[0..1]	±		176

12.3.2.2.1 KeyExchangeType <KeyXchgTp>

Presence: [1..1]

Definition: Type of key exchange.

Datatype: "CardServiceType3Code" on page 447

CodeName	Name	Definition
KYDL	DeliverKey	Deliver the key to be change by the receiver.
KYCG	KeyChange	Request the keys that the receiver must send in the response.
KYVF	KeyVerification	Request the receiver to verify the key check value.

12.3.2.2.2 InitiatorDateTime <InitrDtTm>

Presence: [1..1]

Definition: Date and time of the transaction.

Datatype: "ISODatetime" on page 467

12.3.2.2.3 RequestedKey <ReqdKey>*Presence:* [0..*]*Definition:* Key that must be created and sent in the response, or that must be verified..**RequestedKey <ReqdKey>** contains the following elements (see "[KEKIdentifier3](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		200
	Identification <Id>	[1..1]	Text		200
	Version <Vrsn>	[0..1]	Text		200
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		200

12.3.2.2.4 Key <Key>*Presence:* [0..*]*Definition:* Created key to be stored.**Key <Key>** contains the following elements (see "[CryptographicKey6](#)" on page 197 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		197
	Identification <Id>	[1..1]	Text		197
	Version <Vrsn>	[0..1]	Text		197
	Type <Tp>	[1..1]	CodeSet		197
	Function <Fctn>	[1..*]	CodeSet		198
	ActivationDate <ActvtnDt>	[0..1]	DateTime		199
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		199
	EncryptedKeyValue <NcrptdKeyVal>	[0..1]	±		199
	Certificate <Cert>	[0..*]	Binary		199
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		199

12.3.2.2.5 TransactionResponse <TxRspn>*Presence:* [0..1]*Definition:* Response to the key exchange request.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

12.3.3 SecurityTrailer <SctyTrlr>

Presence: [1..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType12" on page 383 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		383
	EnvelopedData <EnvlpdData>	[0..1]	±		384
	AuthenticatedData <AuthntcdData>	[0..1]	±		384
	SignedData <SgndData>	[0..1]	±		385
	DigestedData <DgstddData>	[0..1]	±		386

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KeyExchangeResponse

13.1 MessageDefinition Functionality

The KeyExchangeResponse message is sent by an acquirer, an issuer or an agent to answer to a KeyExchangeInitiation message and complete a cryptographic key exchange.

Outline

The KeyExchangeResponse MessageDefinition is composed of 3 MessageBuildingBlocks:

- A. Header
Information related to the protocol management.
- B. KeyExchangeResponse
Information related to the response to a key exchange.
- C. SecurityTrailer
Trailer of the message containing a MAC or a digital signature.

13.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	Message root <Document> <KeyXchgRspn>	[1..1]			
	Header <Hdr>	[1..1]			179
	MessageFunction <MsgFctn>	[1..1]	CodeSet		180
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		181
	ExchangeIdentification <XchgId>	[1..1]	Text		181
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		182
	CreationDateTime <CreDtTm>	[1..1]	DateTime		182
	InitiatingParty <InitgPty>	[1..1]	±		182
	RecipientParty <RcptPty>	[0..1]	±		182
	Traceability <Tracblt>	[0..*]			182
	RelayIdentification <RlayId>	[1..1]	±		183
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		183
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		183
	KeyExchangeResponse <KeyXchgRspn>	[1..1]			183
	Environment <Envnt>	[1..1]			184
	SendingInstitution <SndgInstn>	[1..1]	±		184
	ReceivingInstitution <RcvgInstn>	[1..1]	±		184
	Transaction <Tx>	[1..1]			185
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		185
	InitiatorDateTime <InitrDtTm>	[1..1]	DateTime		185
	KeyVerification <KeyVrfctn>	[0..*]	±		186
	Key <Key>	[0..*]	±		186
	TransactionResponse <TxRspn>	[1..1]	±		186
	SecurityTrailer <SctyTrlr>	[1..1]	±		187

13.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

13.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		180
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		181
	ExchangeIdentification <XchgId>	[1..1]	Text		181
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		182
	CreationDateTime <CreDtTm>	[1..1]	DateTime		182
	InitiatingParty <InitgPty>	[1..1]	±		182
	RecipientParty <RcptPty>	[0..1]	±		182
	Traceability <Tracblt>	[0..*]			182
	RelayIdentification <RlayId>	[1..1]	±		183
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		183
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		183

13.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.

CodeName	Name	Definition
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

13.3.1.2 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

13.3.1.3 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

13.3.1.4 ReTransmissionCounter <ReTrnsmssnCntr>*Presence:* [0..1]*Definition:* Number of retransmission of the message. Incremented by one for each retransmission.*Datatype:* "Max3NumericText" on page 471**13.3.1.5 CreationDateTime <CreDtTm>***Presence:* [1..1]*Definition:* Date and time at which the message was sent.*Datatype:* "ISODateTime" on page 467**13.3.1.6 InitiatingParty <InitgPty>***Presence:* [1..1]*Definition:* Unique identification of the partner that has initiated the exchange.**InitiatingParty <InitgPty>** contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

13.3.1.7 RecipientParty <RcptPty>*Presence:* [0..1]*Definition:* Unique identification of the partner that is the recipient of the message exchange.**RecipientParty <RcptPty>** contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

13.3.1.8 Traceability <Tracblt>*Presence:* [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		183
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		183
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		183

13.3.1.8.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

13.3.1.8.2 TraceDateTimeln <TracDtTmIn>

Presence: [1..1]

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

Datatype: "[ISODateTime](#)" on page 467

13.3.1.8.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "[ISODateTime](#)" on page 467

13.3.2 KeyExchangeResponse <KeyXchgRspn>

Presence: [1..1]

Definition: Information related to the response to a key exchange.

KeyExchangeResponse <KeyXchgRspn> contains the following **AcquirerKeyExchangeResponse1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Environment <Envt>	[1..1]			184
	SendingInstitution <SndgInstn>	[1..1]	±		184
	ReceivingInstitution <RcvgInstn>	[1..1]	±		184
	Transaction <Tx>	[1..1]			185
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		185
	InitiatorDateTime <InitrDtTm>	[1..1]	DateTime		185
	KeyVerification <KeyVrfctn>	[0..*]	±		186
	Key <Key>	[0..*]	±		186
	TransactionResponse <TxRspn>	[1..1]	±		186

13.3.2.1 Environment <Envt>

Presence: [1..1]

Definition: Environment of the transaction.

Environment <Envt> contains the following **CardTransactionEnvironment6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SendingInstitution <SndgInstn>	[1..1]	±		184
	ReceivingInstitution <RcvgInstn>	[1..1]	±		184

13.3.2.1.1 SendingInstitution <SndgInstn>

Presence: [1..1]

Definition: Institution initiator of the reconciliation (correspond to the ISO 8583 field 94).

SendingInstitution <SndgInstn> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

13.3.2.1.2 ReceivingInstitution <RcvgInstn>

Presence: [1..1]

Definition: Institution destination of the reconciliation (correspond to the ISO 8583 field 93).

ReceivingInstitution <RcvgInstn> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

13.3.2.2 Transaction <Tx>

Presence: [1..1]

Definition: Key exchange transaction.

Transaction <Tx> contains the following **CardTransaction14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyExchangeType <KeyXchgTp>	[1..1]	CodeSet		185
	InitiatorDateTime <InitrDtTm>	[1..1]	DateTime		185
	KeyVerification <KeyVrfctn>	[0..*]	±		186
	Key <Key>	[0..*]	±		186
	TransactionResponse <TxRspn>	[1..1]	±		186

13.3.2.2.1 KeyExchangeType <KeyXchgTp>

Presence: [1..1]

Definition: Type of key exchange.

Datatype: "CardServiceType3Code" on page 447

CodeName	Name	Definition
KYDL	DeliverKey	Deliver the key to be change by the receiver.
KYCG	KeyChange	Request the keys that the receiver must send in the response.
KYVF	KeyVerification	Request the receiver to verify the key check value.

13.3.2.2.2 InitiatorDateTime <InitrDtTm>

Presence: [1..1]

Definition: Date and time of the transaction.

Datatype: "ISODatetime" on page 467

13.3.2.2.3 KeyVerification <KeyVrfctn>*Presence:* [0..*]*Definition:* Key that has been verified.**KeyVerification <KeyVrfctn>** contains the following elements (see "[KEKIdentifier3](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		200
	Identification <Id>	[1..1]	Text		200
	Version <Vrsn>	[0..1]	Text		200
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		200

13.3.2.2.4 Key <Key>*Presence:* [0..*]*Definition:* Created key to be stored.**Key <Key>** contains the following elements (see "[CryptographicKey6](#)" on page 197 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		197
	Identification <Id>	[1..1]	Text		197
	Version <Vrsn>	[0..1]	Text		197
	Type <Tp>	[1..1]	CodeSet		197
	Function <Fctn>	[1..*]	CodeSet		198
	ActivationDate <ActvtnDt>	[0..1]	DateTime		199
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		199
	EncryptedKeyValue <NcrptdKeyVal>	[0..1]	±		199
	Certificate <Cert>	[0..*]	Binary		199
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		199

13.3.2.2.5 TransactionResponse <TxRspn>*Presence:* [1..1]*Definition:* Response to the key exchange request.

TransactionResponse <TxRspn> contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

13.3.3 SecurityTrailer <SctyTrlr>

Presence: [1..1]

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

SecurityTrailer <SctyTrlr> contains the following elements (see "ContentInformationType12" on page 383 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		383
	EnvelopedData <EnvlpdData>	[0..1]	±		384
	AuthenticatedData <AuthntcdData>	[0..1]	±		384
	SignedData <SgndData>	[0..1]	±		385
	DigestedData <DgstddData>	[0..1]	±		386

14 cain.013.001.01 AcquirerRejection

14.1 MessageDefinition Functionality

The AcquirerRejection message is sent by any party, to reject an Acquirer to Issuer message.

Outline

The AcquirerRejection MessageDefinition is composed of 2 MessageBuildingBlocks:

A. Header

Information related to the protocol management.

B. Reject

Information related to the reject.

14.2 Structure

Or	MessageElement/BuildingBlock<XML Tag>	Mult.	Type	Constr. No.	Page
	<i>Message root</i> <Document> <AcqrrRjctn>	[1..1]			
	Header <Hdr>	[1..1]			189
	MessageFunction <MsgFctn>	[1..1]	CodeSet		190
	OriginalMessageFunction <OrgnlMsgFctn>	[0..1]	CodeSet		191
	ProtocolVersion <PrtolVrsn>	[1..1]	Text		193
	ExchangeIdentification <XchgId>	[1..1]	Text		193
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		193
	CreationDateTime <CreDtTm>	[1..1]	DateTime		193
	InitiatingParty <InitgPty>	[0..1]	±		193
	RecipientParty <RcptPty>	[0..1]	±		193
	Traceability <Tracblt>	[0..*]			194
	RelayIdentification <RlayId>	[1..1]	±		194
	TraceDateTimeIn <TracDtTmIn>	[1..1]	DateTime		194
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		195
	Reject <Rjct>	[1..1]			195
	RejectReason <RjctRsn>	[1..1]	CodeSet		195
	ErrorReporting <ErrRptg>	[0..*]			196
	Type <Tp>	[1..1]	Text		196
	Description <Desc>	[1..1]	Text		196
	MessageInError <MsgInErr>	[0..1]	Binary		196

14.3 Message Building Blocks

This chapter describes the MessageBuildingBlocks of this MessageDefinition.

14.3.1 Header <Hdr>

Presence: [1..1]

Definition: Information related to the protocol management.

Header <Hdr> contains the following **Header19** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageFunction <MsgFctn>	[1..1]	CodeSet		190
	OriginalMessageFunction <OrgnlMsgFctn>	[0..1]	CodeSet		191
	ProtocolVersion <PrtcolVrsn>	[1..1]	Text		193
	ExchangeIdentification <XchgId>	[1..1]	Text		193
	ReTransmissionCounter <ReTrnsmssnCntr>	[0..1]	Text		193
	CreationDateTime <CreDtTm>	[1..1]	DateTime		193
	InitiatingParty <InitgPty>	[0..1]	±		193
	RecipientParty <RcptPty>	[0..1]	±		193
	Traceability <Tracblt>	[0..*]			194
	RelayIdentification <RlayId>	[1..1]	±		194
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		194
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		195

14.3.1.1 MessageFunction <MsgFctn>

Presence: [1..1]

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

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.

CodeName	Name	Definition
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

14.3.1.2 OriginalMessageFunction <OrgnlMsgFctn>

Presence: [0..1]

Definition: Identifies the type of process related to the message which has to be reversed.

Datatype: "MessageFunction6Code" on page 452

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.

CodeName	Name	Definition
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

14.3.1.3 ProtocolVersion <PrtcolVrsn>

Presence: [1..1]

Definition: Version of the acquirer to issuer protocol specifications

Datatype: "Max6Text" on page 472

14.3.1.4 ExchangeIdentification <Xchgld>

Presence: [1..1]

Definition: Unique identification of an exchange occurrence.

Datatype: "Max3NumericText" on page 471

14.3.1.5 ReTransmissionCounter <ReTrnsmsnCnt>

Presence: [0..1]

Definition: Number of retransmission of the message. Incremented by 1 for each retransmission.

Datatype: "Max3NumericText" on page 471

14.3.1.6 CreationDateTime <CreDtTm>

Presence: [1..1]

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

Datatype: "ISODatetime" on page 467

14.3.1.7 InitiatingParty <InitgPty>

Presence: [0..1]

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

InitiatingParty <InitgPty> contains the following elements (see "GenericIdentification73" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

14.3.1.8 RecipientParty <RcptPty>

Presence: [0..1]

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

RecipientParty <RcptPty> contains the following elements (see "[GenericIdentification73](#)" on page 201 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

14.3.1.9 Traceability <Tracblt>

Presence: [0..*]

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

Traceability <Tracblt> contains the following **Traceability3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelayIdentification <RlayId>	[1..1]	±		194
	TraceDateTimeln <TracDtTmIn>	[1..1]	DateTime		194
	TraceDateTimeOut <TracDtTmOut>	[1..1]	DateTime		195

14.3.1.9.1 RelayIdentification <RlayId>

Presence: [1..1]

Definition: Identification of a partner of a message exchange.

RelayIdentification <RlayId> contains the following elements (see "[GenericIdentification74](#)" on page 202 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

14.3.1.9.2 TraceDateTimeln <TracDtTmIn>

Presence: [1..1]

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

Datatype: "[ISODatetime](#)" on page 467

14.3.1.9.3 TraceDateTimeOut <TracDtTmOut>

Presence: [1..1]

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

Datatype: "ISODateTime" on page 467

14.3.2 Reject <Rjct>

Presence: [1..1]

Definition: Information related to the reject.

Reject <Rjct> contains the following **AcceptorRejection4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RejectReason <RjctRsn>	[1..1]	CodeSet		195
	ErrorReporting <ErrRptg>	[0..*]			196
	Type <Tp>	[1..1]	Text		196
	Description <Desc>	[1..1]	Text		196
	MessageInError <MsgInErr>	[0..1]	Binary		196

14.3.2.1 RejectReason <RjctRsn>

Presence: [1..1]

Definition: Reject reason of the message.

Datatype: "RejectReason1Code" on page 458

CodeName	Name	Definition
UNPR	UnableToProcess	Not possible to process the message, for instance the security module is unavailable, the hardware is unavailable, or there is a problem of resource.
IMSG	InvalidMessage	Invalid envelope of the message.
PARS	ParsingError	Invalid message: At least one of the data element or data structure is not present , the format, or the content of one data element or one data structure is not correct.
SECU	Security	Security error (for example an invalid key or an incorrect MAC value).
INTP	InitiatingParty	Invalid identification data for the sender.
RCPD	RecipientParty	Invalid identification data for the the receiver.
DPMG	DuplicateMessage	Duplicate message, the identification of the exchange is the same than a previous message.
VERS	ProtocolVersion	Version of the protocol couldn't be supported by the recipient.

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

14.3.2.2 ErrorReporting <ErrRptg>

Presence: [0..*]

Definition: Detailed description of an error that caused the rejection for further analysis.

ErrorReporting <ErrRptg> contains the following **ErrorReporting1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	Text		196
	Description <Desc>	[1..1]	Text		196

14.3.2.2.1 Type <Tp>

Presence: [1..1]

Definition: Type of error.

Datatype: "Max35Text" on page 471

14.3.2.2.2 Description <Desc>

Presence: [1..1]

Definition: Detailed description of the error.

Datatype: "Max500Text" on page 472

14.3.2.3 MessageInError <MsgInErr>

Presence: [0..1]

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

Datatype: "Max100KBinary" on page 431

15 Message Items Types

15.1 MessageComponents

15.1.1 Acquirer

15.1.1.1 CryptographicKey6

Definition: Cryptographic Key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		197
	Identification <Id>	[1..1]	Text		197
	Version <Vrsn>	[0..1]	Text		197
	Type <Tp>	[1..1]	CodeSet		197
	Function <Fctn>	[1..*]	CodeSet		198
	ActivationDate <ActvtnDt>	[0..1]	DateTime		199
	DeactivationDate <DeactvtnDt>	[0..1]	DateTime		199
	EncryptedKeyValue <NcrptdKeyVal>	[0..1]	±		199
	Certificate <Cert>	[0..*]	Binary		199
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		199

15.1.1.1.1 Name <Nm>

Presence: [0..1]

Definition: Name or label of the key.

Datatype: "Max140Text" on page 470

15.1.1.1.2 Identification <Id>

Presence: [1..1]

Definition: Name of the cryptographic key.

Datatype: "Max140Text" on page 470

15.1.1.1.3 Version <Vrsn>

Presence: [0..1]

Definition: Version of the cryptographic key.

Datatype: "Max256Text" on page 471

15.1.1.1.4 Type <Tp>

Presence: [1..1]

Definition: Type of algorithm used by the cryptographic key.

Datatype: "CryptographicKeyType3Code" on page 449

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).

15.1.1.1.5 Function <Fctn>

Presence: [1..*]

Definition: Allowed usage of the key.

Datatype: "KeyUsage1Code" on page 451

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.

CodeName	Name	Definition
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.

15.1.1.1.6 ActivationDate <ActvtnDt>

Presence: [0..1]

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

Datatype: ["ISODatetime" on page 467](#)

15.1.1.1.7 DeactivationDate <DeactvtnDt>

Presence: [0..1]

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

Datatype: ["ISODatetime" on page 467](#)

15.1.1.1.8 EncryptedKeyValue <NcrptdKeyVal>

Presence: [0..1]

Definition: Encrypted value of the key present as CMS structure EnvelopedData.

EncryptedKeyValue <NcrptdKeyVal> contains the following elements (see ["ContentInformationType10" on page 209](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.1.1.9 Certificate <Cert>

Presence: [0..*]

Definition: Certificate to protect the key.

Datatype: ["Max5000Binary" on page 432](#)

15.1.1.1.10 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Chip card protection of the key.

Datatype: ["Max5000Binary" on page 432](#)

15.1.1.2 KEKIdentifier3

Definition: Key that must be created and sent in the response, or that must be verified..

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[0..1]	Text		200
	Identification <Id>	[1..1]	Text		200
	Version <Vrsn>	[0..1]	Text		200
	KeyCheckValue <KeyChckVal>	[0..1]	Binary		200

15.1.1.2.1 Name <Nm>

Presence: [0..1]

Definition: Name or label of the key.

Datatype: "Max140Text" on page 470

15.1.1.2.2 Identification <Id>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 470

15.1.1.2.3 Version <Vrsn>

Presence: [0..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 470

15.1.1.2.4 KeyCheckValue <KeyChckVal>

Presence: [0..1]

Definition: Value to check the key, for instance, result of the encryption of the null binary string.

Datatype: "Max35Binary" on page 432

15.1.2 Identification Information

15.1.2.1 GenericIdentification1

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.2.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification assigned by an institution.

Datatype: "Max35Text" on page 471

15.1.2.1.2 SchemeName <SchmeNm>

Presence: [0..1]

Definition: Name of the identification scheme.

Datatype: "Max35Text" on page 471

15.1.2.1.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity that assigns the identification.

Datatype: "Max35Text" on page 471

15.1.2.2 GenericIdentification73

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	Type <Tp>	[0..1]	CodeSet		201
	Issuer <Issr>	[0..1]	CodeSet		202
	Country <Ctry>	[0..1]	Text		202
	ShortName <ShrtNm>	[0..1]	Text		202

15.1.2.2.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 471

15.1.2.2.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType9Code" on page 457

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ACQP	AcquirerProcessor	Entity providing acquiring card payment processing services on behalf on an acquirer.
CISS	CardIssuer	Party that issues cards.

CodeName	Name	Definition
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
CSCH	CardScheme	Entity defining rules and procedures for card payment transactions acting as an intermediary between an acquirer and an issuer.
SCHP	CardSchemeProcessor	Entity providing card payment processing services acting on behalf of a card scheme.

15.1.2.2.3 Issuer <Issr>

Presence: [0..1]

Definition: Entity assigning the identification , for example merchant, acceptor, acquirer or card issuer.

Datatype: "PartyType9Code" on page 457

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ACQP	AcquirerProcessor	Entity providing acquiring card payment processing services on behalf on an acquirer.
CISS	CardIssuer	Party that issues cards.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
CSCH	CardScheme	Entity defining rules and procedures for card payment transactions acting as an intermediary between an acquirer and an issuer.
SCHP	CardSchemeProcessor	Entity providing card payment processing services acting on behalf of a card scheme.

15.1.2.2.4 Country <Ctry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.2.2.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 471

15.1.2.3 GenericIdentification74

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		203
	Type <Tp>	[1..1]	CodeSet		203
	Issuer <Issr>	[0..1]	CodeSet		203
	Country <Ctry>	[0..1]	Text		204
	ShortName <ShrtNm>	[0..1]	Text		204

15.1.2.3.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 471

15.1.2.3.2 Type <Tp>

Presence: [1..1]

Definition: Type of identified entity.

Datatype: "PartyType10Code" on page 455

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
OATM	OriginatingATM	ATM initiating the transaction.
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.

15.1.2.3.3 Issuer <Issr>

Presence: [0..1]

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

Datatype: "PartyType10Code" on page 455

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.
CISS	CardIssuer	Party that issues cards.
DLIS	Delegatelssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
OATM	OriginatingATM	ATM initiating the transaction.
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.

15.1.2.3.4 Country <Ctry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.2.3.5 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 471

15.1.2.4 GenericIdentification4

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		204
	IdentificationType <IdTp>	[1..1]	Text		204

15.1.2.4.1 Identification <Id>

Presence: [1..1]

Definition: Identifier issued to a person for which no specific identifier has been defined.

Datatype: "Max35Text" on page 471

15.1.2.4.2 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 471

15.1.2.5 GenericIdentification32

Definition: Identification of an entity.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		205
	Type <Tp>	[0..1]	CodeSet		205
	Issuer <Issr>	[0..1]	CodeSet		205
	ShortName <ShrtNm>	[0..1]	Text		206

15.1.2.5.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 471

15.1.2.5.2 Type <Tp>

Presence: [0..1]

Definition: Type of identified entity.

Datatype: "PartyType3Code" on page 456

CodeName	Name	Definition
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.

15.1.2.5.3 Issuer <Issr>

Presence: [0..1]

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

Datatype: "PartyType4Code" on page 457

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.

15.1.2.5.4 ShortName <ShrtNm>

Presence: [0..1]

Definition: Name of the entity.

Datatype: "Max35Text" on page 471

15.1.3 Miscellaneous

15.1.3.1 RecurringTransaction2

Definition: Financial loan (instalment) or a recurring transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InstalmentPlan <InstlmtPlan>	[0..*]	CodeSet		206
	PlanIdentification <PlanId>	[0..1]	Text		207
	SequenceNumber <SeqNb>	[0..1]	Quantity		207
	PeriodUnit <PrdUnit>	[0..1]	CodeSet		207
	InstalmentPeriod <InstlmtPrd>	[0..1]	Quantity		207
	TotalNumberOfPayments <TtlNbOfPmts>	[0..1]	Quantity		207
	FirstPaymentDate <FrstPmtDt>	[0..1]	Date		208
	TotalAmount <TtlAmt>	[0..1]	Amount		208
	FirstAmount <FrstAmt>	[0..1]	Amount		208
	Charges <Chrgs>	[0..1]	Amount		208

15.1.3.1.1 InstalmentPlan <InstlmtPlan>

Presence: [0..*]

Definition: Type of instalment plan.

Datatype: "InstalmentPlan1Code" on page 450

CodeName	Name	Definition
EQPM	EqualPayment	The payment is split in several instalments of equal amounts.
NQPM	InequalPayment	The payment is split in several instalments of different amounts.
DFRI	DeferredInstalment	The first instalment is deferred.

15.1.3.1.2 PlanIdentification <PlanId>

Presence: [0..1]

Definition: Identification of the instalment plan.

Datatype: "Max35Text" on page 471

15.1.3.1.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Indicates the recurring/instalment occurrence of the transaction (1 = 1st instalment, 2 = 2nd instalment, etc.).

Datatype: "Number" on page 469

15.1.3.1.4 PeriodUnit <PrdUnit>

Presence: [0..1]

Definition: Period unit between consecutive payments (for example day, month, year).

Datatype: "Frequency3Code" on page 450

CodeName	Name	Definition
YEAR	Annual	Event takes place every year or once a year.
MNTH	Monthly	Event takes place every month or once a month.
QURT	Quarterly	Event takes place every three months or four times a year.
MIAN	SemiAnnual	Event takes place every six months or two times a year.
WEEK	Weekly	Event takes place once a week.
DAIL	Daily	Event takes place every day.
TEND	TenDays	Event takes place every ten business days.

15.1.3.1.5 InstalmentPeriod <InstlmtPrd>

Presence: [0..1]

Definition: Number of period units between consecutive payments.

Datatype: "Number" on page 469

15.1.3.1.6 TotalNumberOfPayments <TtlNbOfPmts>

Presence: [0..1]

Definition: Total number of instalment payments.

Datatype: "Number" on page 469

15.1.3.1.7 FirstPaymentDate <FrstPmtDt>

Presence: [0..1]

Definition: Date of the first payment.

Datatype: "ISODate" on page 466

15.1.3.1.8 TotalAmount <TtlAmt>

Presence: [0..1]

Definition: Cumulative amount of all the instalments.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.1.9 FirstAmount <FrstAmt>

Presence: [0..1]

Definition: Amount of the first payment.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.1.10 Charges <Chrgs>

Presence: [0..1]

Definition: Charges related to the transaction.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.2 KEKIdentifier2

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

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		208
	KeyVersion <KeyVrsn>	[1..1]	Text		208
	SequenceNumber <SeqNb>	[0..1]	Quantity		209
	DerivationIdentification <DerivtnId>	[0..1]	Binary		209

15.1.3.2.1 KeyIdentification <KeyId>

Presence: [1..1]

Definition: Identification of the cryptographic key.

Datatype: "Max140Text" on page 470

15.1.3.2.2 KeyVersion <KeyVrsn>

Presence: [1..1]

Definition: Version of the cryptographic key.

Datatype: "Max140Text" on page 470

15.1.3.2.3 SequenceNumber <SeqNb>

Presence: [0..1]

Definition: Number of usages of the cryptographic key.

Datatype: "Number" on page 469

15.1.3.2.4 DerivationIdentification <DerivtnId>

Presence: [0..1]

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

Datatype: "Min5Max16Binary" on page 432

15.1.3.3 CardPaymentToken2

Definition: Payment token information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TokenCharacteristic <TknChrtc>	[0..*]	Text		209
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		209

15.1.3.3.1 TokenCharacteristic <TknChrtc>

Presence: [0..*]

Definition: Additional token payment information.

Datatype: "Max35Text" on page 471

15.1.3.3.2 TokenAssuranceLevel <TknAssrncLvl>

Presence: [0..1]

Definition: Level of confidence resulting of the identification and authentication of the cardholder performed and the entity that performed it.

Datatype: "Number" on page 469

15.1.3.4 ContentInformationType10

Definition: General cryptographic message syntax (CMS) containing encrypted data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.3.4.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

15.1.3.4.2 EnvelopedData <EnvlpdData>

Presence: [1..1]

Definition: Data protection by encryption or by a digital envelope, with an encryption key.

EnvelopedData <EnvlpdData> contains the following elements (see "EnvelopedData4" on page 399 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		399
	Recipient <Rcpt>	[1..*]	±		399
	EncryptedContent <NcrptdCntt>	[0..1]			401
	ContentType <CnttTp>	[1..1]	CodeSet		401
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			401
	Algorithm <Algo>	[1..1]	CodeSet		402
	Parameter <Param>	[0..1]			402
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403
	EncryptedData <NcrptdData>	[1..1]	Binary		403

15.1.3.5 TransactionTotals4

Definition: Totals of the reconciliation.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalCredit <TtlCdt>	[1..1]			211
	Amount <Amt>	[1..1]	Amount		212
	Number <Nb>	[1..1]	Quantity		212
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		212
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		212
	ReversalAmount <RvslAmt>	[1..1]	Amount		212
	ReversalNumber <RvslNb>	[1..1]	Quantity		212
	FeeAmounts <FeeAmts>	[0..1]	Amount		213
	TotalDebit <TtlDbt>	[1..1]			213
	Amount <Amt>	[1..1]	Amount		213
	Number <Nb>	[1..1]	Quantity		213
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		213
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		213
	ReversalAmount <RvslAmt>	[1..1]	Amount		214
	ReversalNumber <RvslNb>	[1..1]	Quantity		214
	FeeAmounts <FeeAmts>	[0..1]	Amount		214
	TotalNumber <TtlNb>	[0..1]			214
	Authorisation <Authstn>	[0..1]	Quantity		214
	AuthorisationReversal <AuthstnRvsl>	[0..1]	Quantity		214
	Inquiry <Nqry>	[0..1]	Quantity		215
	InquiryReversal <NqryRvsl>	[0..1]	Quantity		215
	Payments <Pmts>	[0..1]	Quantity		215
	PaymentReversal <PmtRvsl>	[0..1]	Quantity		215
	Transfer <Trf>	[0..1]	Quantity		215
	TransferReversal <TrfRvsl>	[0..1]	Quantity		215
	FeeCollection <FeeColltn>	[0..1]	Quantity		215

15.1.3.5.1 TotalCredit <TtlCdt>

Presence: [1..1]

Definition: Total of credit transactions.

TotalCredit <TtICdt> contains the following **TransactionTotals5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		212
	Number <Nb>	[1..1]	Quantity		212
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		212
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		212
	ReversalAmount <RvslAmt>	[1..1]	Amount		212
	ReversalNumber <RvslNb>	[1..1]	Quantity		212
	FeeAmounts <FeeAmts>	[0..1]	Amount		213

15.1.3.5.1.1 Amount <Amt>

Presence: [1..1]

Definition: Cumulative amount of all financial transactions.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.5.1.2 Number <Nb>

Presence: [1..1]

Definition: Number of all financial transactions.

Datatype: "Number" on page 469

15.1.3.5.1.3 ChargeBackAmount <ChrgBckAmt>

Presence: [1..1]

Definition: Cumulative amount of all chargeback transactions exclusive of any fees.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.5.1.4 ChargeBackNumber <ChrgBckNb>

Presence: [1..1]

Definition: Total number of chargeback transactions.

Datatype: "Number" on page 469

15.1.3.5.1.5 ReversalAmount <RvslAmt>

Presence: [1..1]

Definition: Cumulative amount of all reversal transactions exclusive of any fees.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.5.1.6 ReversalNumber <RvslNb>

Presence: [1..1]

Definition: Total number of reversal transactions.

Datatype: "Number" on page 469

15.1.3.5.1.7 FeeAmounts <FeeAmts>*Presence:* [0..1]*Definition:* Sum amount of all fees.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.5.2 TotalDebit <TtIDbt>***Presence:* [1..1]*Definition:* Total of debit transactions.**TotalDebit <TtIDbt>** contains the following **TransactionTotals5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		213
	Number <Nb>	[1..1]	Quantity		213
	ChargeBackAmount <ChrgBckAmt>	[1..1]	Amount		213
	ChargeBackNumber <ChrgBckNb>	[1..1]	Quantity		213
	ReversalAmount <RvslAmt>	[1..1]	Amount		214
	ReversalNumber <RvslNb>	[1..1]	Quantity		214
	FeeAmounts <FeeAmts>	[0..1]	Amount		214

15.1.3.5.2.1 Amount <Amt>*Presence:* [1..1]*Definition:* Cumulative amount of all financial transactions.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.5.2.2 Number <Nb>***Presence:* [1..1]*Definition:* Number of all financial transactions.*Datatype:* "Number" on page 469**15.1.3.5.2.3 ChargeBackAmount <ChrgBckAmt>***Presence:* [1..1]*Definition:* Cumulative amount of all chargeback transactions exclusive of any fees.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.5.2.4 ChargeBackNumber <ChrgBckNb>***Presence:* [1..1]*Definition:* Total number of chargeback transactions.*Datatype:* "Number" on page 469

15.1.3.5.2.5 ReversalAmount <RvslAmt>*Presence:* [1..1]*Definition:* Cumulative amount of all reversal transactions exclusive of any fees.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.5.2.6 ReversalNumber <RvslNb>***Presence:* [1..1]*Definition:* Total number of reversal transactions.*Datatype:* "Number" on page 469**15.1.3.5.2.7 FeeAmounts <FeeAmts>***Presence:* [0..1]*Definition:* Sum amount of all fees.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.5.3 TotalNumber <TtlNb>***Presence:* [0..1]*Definition:* Additional count which may be utilised for reconciliation.**TotalNumber <TtlNb>** contains the following **TransactionTotals6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Authorisation <Authstn>	[0..1]	Quantity		214
	AuthorisationReversal <AuthstnRvsl>	[0..1]	Quantity		214
	Inquiry <Nqry>	[0..1]	Quantity		215
	InquiryReversal <NqryRvsl>	[0..1]	Quantity		215
	Payments <Pmts>	[0..1]	Quantity		215
	PaymentReversal <PmtRvsl>	[0..1]	Quantity		215
	Transfer <Trf>	[0..1]	Quantity		215
	TransferReversal <TrfRvsl>	[0..1]	Quantity		215
	FeeCollection <FeeColltn>	[0..1]	Quantity		215

15.1.3.5.3.1 Authorisation <Authstn>*Presence:* [0..1]*Definition:* Sum number of all authorisation transactions.*Datatype:* "Number" on page 469**15.1.3.5.3.2 AuthorisationReversal <AuthstnRvsl>***Presence:* [0..1]*Definition:* Sum number of all reversed authorisation transactions.

Datatype: "Number" on page 469

15.1.3.5.3.3 Inquiry <Nqry>

Presence: [0..1]

Definition: Sum number of all inquiry transactions.

Datatype: "Number" on page 469

15.1.3.5.3.4 InquiryReversal <NqryRvsl>

Presence: [0..1]

Definition: Sum number of all reversed inquiry transactions.

Datatype: "Number" on page 469

15.1.3.5.3.5 Payments <Pmts>

Presence: [0..1]

Definition: Sum number of all financial presentment payment transactions processed.

Datatype: "Number" on page 469

15.1.3.5.3.6 PaymentReversal <PmtRvsl>

Presence: [0..1]

Definition: Sum number of all financial presentment payment transactions which have been reversed.

Datatype: "Number" on page 469

15.1.3.5.3.7 Transfer <Trf>

Presence: [0..1]

Definition: Sum number of all financial presentment transactions processed.

Datatype: "Number" on page 469

15.1.3.5.3.8 TransferReversal <TrfRvsl>

Presence: [0..1]

Definition: Sum number of all reversal transactions processed.

Datatype: "Number" on page 469

15.1.3.5.3.9 FeeCollection <FeeColltn>

Presence: [0..1]

Definition: Sum number of all fee collection transactions.

Datatype: "Number" on page 469

15.1.3.6 CardTransactionDetail6

Definition: Details of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			216
	TotalAmount <TtlAmt>	[1..1]	Amount		217
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			217
	Amount <Amt>	[1..1]	Amount		217
	ExchangeRate <XchgRate>	[1..1]	Rate		218
	QuotationDate <QtnDt>	[0..1]	DateTime		218
	Label <Lbl>	[0..1]	Text		218
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			218
	Amount <Amt>	[1..1]	Amount		218
	ExchangeRate <XchgRate>	[1..1]	Rate		219
	QuotationDate <QtnDt>	[0..1]	DateTime		219
	Label <Lbl>	[0..1]	Text		219
	TransactionFees <TxFees>	[0..*]			219
	Type <Tp>	[1..1]	CodeSet		219
	AdditionalType <AddtlTp>	[0..1]	Text		220
	Amount <Amt>	[1..1]	±		220
	OriginalAmount <OrgnlAmt>	[0..1]	±		220
	AdditionalAmounts <AddtlAmts>	[0..*]			220
	Type <Tp>	[1..1]	CodeSet		220
	AdditionalType <AddtlTp>	[0..1]	Text		221
	Amount <Amt>	[1..1]	Amount		221
	Label <Lbl>	[0..1]	Text		221
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		222

15.1.3.6.1 TransactionAmounts <TxAmts>

Presence: [1..1]

Definition: Amounts of the transaction expressed within the terminal currency.

TransactionAmounts <TxAmts> contains the following **CardTransactionAmount5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		217
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			217
	Amount <Amt>	[1..1]	Amount		217
	ExchangeRate <XchgRate>	[1..1]	Rate		218
	QuotationDate <QtnDt>	[0..1]	DateTime		218
	Label <Labl>	[0..1]	Text		218
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			218
	Amount <Amt>	[1..1]	Amount		218
	ExchangeRate <XchgRate>	[1..1]	Rate		219
	QuotationDate <QtnDt>	[0..1]	DateTime		219
	Label <Labl>	[0..1]	Text		219

15.1.3.6.1.1 TotalAmount <TtlAmt>

Presence: [1..1]

Definition: Total amount of the transaction.

It corresponds to ISO 8583, field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.6.1.2 CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>

Presence: [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in TransactionAmount. It may be populated by the scheme or intermediary processor as normally Acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrdhldrBllgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		217
	ExchangeRate <XchgRate>	[1..1]	Rate		218
	QuotationDate <QtnDt>	[0..1]	DateTime		218
	Label <Labl>	[0..1]	Text		218

15.1.3.6.1.2.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.6.1.2.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.6.1.2.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.6.1.2.4 Label <Labl>

Presence: [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.6.1.3 ReconciliationTransactionAmount <RcncltnTxAmt>

Presence: [0..1]

Definition: Only present within financial transactions when reconciliation currency differs from transaction currency. It may be populated by acquirers in the request or by the schemes in the responses, depending where the reconciliation point is located.

ReconciliationTransactionAmount <RcncltnTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		218
	ExchangeRate <XchgRate>	[1..1]	Rate		219
	QuotationDate <QtnDt>	[0..1]	DateTime		219
	Label <Labl>	[0..1]	Text		219

15.1.3.6.1.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.6.1.3.2 ExchangeRate <XchgRate>*Presence:* [1..1]*Definition:* Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469**15.1.3.6.1.3.3 QuotationDate <QtnDt>***Presence:* [0..1]*Definition:* Date and time at which the exchange rate has been quoted.*Datatype:* "ISODatetime" on page 467**15.1.3.6.1.3.4 Label <Labl>***Presence:* [0..1]*Definition:* Text to display on the cardholder or to print on the cardholder bank statement.*Datatype:* "Max140Text" on page 470**15.1.3.6.2 TransactionFees <TxFees>***Presence:* [0..*]*Definition:* Fees between acquirer and issuer exclusive of the transaction amount, and expressed in the currency of the reconciliation.**TransactionFees <TxFees>** contains the following **DetailedAmount11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		219
	AdditionalType <AddtlTp>	[0..1]	Text		220
	Amount <Amt>	[1..1]	±		220
	OriginalAmount <OrgnlAmt>	[0..1]	±		220

15.1.3.6.2.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount7Code" on page 465

CodeName	Name	Definition
FEES	Fees	Fees.
FEEI	IssuerFees	Fees amount from the card issuer.
FEED	InterchangeFees	Interchange fees.
FEED	ProcessingFees	Processing fees.
FEED	InternationalServiceAssessmentFees	International service assessment fees.

15.1.3.6.2.2 AdditionalType <AddtlTp>*Presence:* [0..1]*Definition:* Additional information to specify the type of amount.*Datatype:* "Max35Text" on page 471**15.1.3.6.2.3 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.**Amount <Amt>** contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.6.2.4 OriginalAmount <OrgnlAmt>*Presence:* [0..1]*Definition:* Original value of the amount.**OriginalAmount <OrgnlAmt>** contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.6.3 AdditionalAmounts <AddtlAmts>*Presence:* [0..*]*Definition:* Additional amounts from the processor or the issuer without financial impacts on the transaction amount.**AdditionalAmounts <AddtlAmts>** contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		220
	AdditionalType <AddtlTp>	[0..1]	Text		221
	Amount <Amt>	[1..1]	Amount		221
	Label <Labl>	[0..1]	Text		221

15.1.3.6.3.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.6.3.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.6.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.6.3.4 Label <Lbl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max35Text" on page 471

15.1.3.6.4 ICCRelatedData <ICCRltdData>*Presence:* [0..1]*Definition:* Data related to an integrated circuit card application.

It corresponds to ISO 8583, field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431**15.1.3.7 ResponseType2***Definition:* Response of a requested service.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <Rslt>	[1..1]	CodeSet		222
	ResultDetails <RsltDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsltInf>	[0..1]	Text		226

15.1.3.7.1 Result <Rslt>*Presence:* [1..1]*Definition:* Result of the request message or advice message.*Datatype:* "Response3Code" on page 459

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
FRTH	FurtherAction	Further action required to complete the transaction, for instance a referral.
PART	PartialApproved	Service has been partially provided.
PRCS	Processed	Advice message is processed.
UNPR	NotProcessed	Advice message could not be processed.

15.1.3.7.2 ResultDetails <RsltDtls>*Presence:* [0..1]*Definition:* Detail of the result.*Datatype:* "ResultDetail1Code" on page 459

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.

CodeName	Name	Definition
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
CSHI	CashbackNotAllowed	Cashback is not permitted.
CSHE	CashbackAmountExceeded	Cashback amount is higher than permitted.
ACTC	ClosedAccount	Account is no more usable for the transaction.
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
CRDX	ExpiredCard	Card has expired.
FMTR	FormatError	Invalid format of the message or its content.
ACEF	FromAccountError	From account status error.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
PINA	NotAbleToValidatePIN	PIN could not be validated.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
CRDA	NoCardRecord	No card file record.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
MACK	MACKeyError	MAC key error.
MACR	MACError	MAC error.
CRDL	LostCard	Card has been declared lost.

CodeName	Name	Definition
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISSF	IssuerNotFound	Issuer is not found.
ISSP	IssuerInoperative	Issuer is inoperative.
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
CSCV	InvalidSecurityCode	Security code validation fails.
PINV	InvalidPIN	PIN is invalid.
AMTO	InvalidOriginalAmount	Original amount is invalid.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
AMTL	PaymentAmountLimit	Amount of payment transactions exceeds card limit.
NMBL	PaymentNumberLimit	Number of payment transactions exceeds card limit.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.

CodeName	Name	Definition
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.
CRDW	WrongCard	Other card used for the original transaction.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
VNDF	VendorNotFound	Vendor not found.
VNDR	VendorFormatError	Vendor format has an error.
SVSU	UnsupportedService	Requested service not supported.
CRDU	UneffectiveCard	Card is not active yet.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TTLV	TotalsNotAvailable	Totals are not available.
ACTT	ToAccountError	To account status error.
SYSM	SystemMalfunction	System Malfunction.
SYSP	SystemInoperative	Processing temporary not available.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CRDS	StolenCard	Card has been declared stolen.

CodeName	Name	Definition
ACKO	AcknowledgementOnly	Message is acknowledged only without processing the service, for instance the reconciliation is not performed, acknowledged only.

15.1.3.7.3 AdditionalResultInformation <AddtlRsltInf>

Presence: [0..1]

Definition: Additional information to be logged for further examination.

Datatype: "Max140Text" on page 470

15.1.3.8 CardTransactionDetail5

Definition: Details of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			227
	TotalAmount <TtlAmt>	[1..1]	Amount		228
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			228
	Amount <Amt>	[1..1]	Amount		228
	ExchangeRate <XchgRate>	[1..1]	Rate		229
	QuotationDate <QtnDt>	[0..1]	DateTime		229
	Label <Lbl>	[0..1]	Text		229
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			229
	Amount <Amt>	[1..1]	Amount		229
	ExchangeRate <XchgRate>	[1..1]	Rate		230
	QuotationDate <QtnDt>	[0..1]	DateTime		230
	Label <Lbl>	[0..1]	Text		230
	TransactionFees <TxFees>	[0..*]			230
	Type <Tp>	[1..1]	CodeSet		230
	AdditionalType <AddtlTp>	[0..1]	Text		231
	Amount <Amt>	[1..1]	±		231
	OriginalAmount <OrgnlAmt>	[0..1]	±		231
	AdditionalAmounts <AddtlAmts>	[0..*]			231
	Type <Tp>	[1..1]	CodeSet		231
	AdditionalType <AddtlTp>	[0..1]	Text		232
	Amount <Amt>	[1..1]	Amount		232
	Label <Lbl>	[0..1]	Text		232
	MessageReason <MsgRsn>	[1..*]	CodeSet		233
	ICCRRelatedData <ICCRltdData>	[0..1]	Binary		234

15.1.3.8.1 TransactionAmounts <TxAmts>

Presence: [1..1]

Definition: Amounts of the transaction expressed within the terminal currency.

TransactionAmounts <TxAmts> contains the following **CardTransactionAmount5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		228
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			228
	Amount <Amt>	[1..1]	Amount		228
	ExchangeRate <XchgRate>	[1..1]	Rate		229
	QuotationDate <QtnDt>	[0..1]	DateTime		229
	Label <Labl>	[0..1]	Text		229
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			229
	Amount <Amt>	[1..1]	Amount		229
	ExchangeRate <XchgRate>	[1..1]	Rate		230
	QuotationDate <QtnDt>	[0..1]	DateTime		230
	Label <Labl>	[0..1]	Text		230

15.1.3.8.1.1 TotalAmount <TtlAmt>

Presence: [1..1]

Definition: Total amount of the transaction.

It corresponds to ISO 8583, field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.8.1.2 CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>

Presence: [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in TransactionAmount. It may be populated by the scheme or intermediary processor as normally Acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrdhldrBllgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		228
	ExchangeRate <XchgRate>	[1..1]	Rate		229
	QuotationDate <QtnDt>	[0..1]	DateTime		229
	Label <Labl>	[0..1]	Text		229

15.1.3.8.1.2.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.8.1.2.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.8.1.2.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.8.1.2.4 Label <Labl>

Presence: [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.8.1.3 ReconciliationTransactionAmount <RcncltnTxAmt>

Presence: [0..1]

Definition: Only present within financial transactions when reconciliation currency differs from transaction currency. It may be populated by acquirers in the request or by the schemes in the responses, depending where the reconciliation point is located.

ReconciliationTransactionAmount <RcncltnTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		229
	ExchangeRate <XchgRate>	[1..1]	Rate		230
	QuotationDate <QtnDt>	[0..1]	DateTime		230
	Label <Labl>	[0..1]	Text		230

15.1.3.8.1.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.8.1.3.2 ExchangeRate <XchgRate>*Presence:* [1..1]*Definition:* Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469**15.1.3.8.1.3.3 QuotationDate <QtnDt>***Presence:* [0..1]*Definition:* Date and time at which the exchange rate has been quoted.*Datatype:* "ISODateTime" on page 467**15.1.3.8.1.3.4 Label <Labl>***Presence:* [0..1]*Definition:* Text to display on the cardholder or to print on the cardholder bank statement.*Datatype:* "Max140Text" on page 470**15.1.3.8.2 TransactionFees <TxFees>***Presence:* [0..*]*Definition:* Fees between acquirer and issuer exclusive of the transaction amount, and expressed in the currency of the reconciliation.**TransactionFees <TxFees>** contains the following **DetailedAmount11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		230
	AdditionalType <AddtlTp>	[0..1]	Text		231
	Amount <Amt>	[1..1]	±		231
	OriginalAmount <OrgnlAmt>	[0..1]	±		231

15.1.3.8.2.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount7Code" on page 465

CodeName	Name	Definition
FEES	Fees	Fees.
FEEI	IssuerFees	Fees amount from the card issuer.
FEED	InterchangeFees	Interchange fees.
FEED	ProcessingFees	Processing fees.
FEED	InternationalServiceAssessmentFees	International service assessment fees.

15.1.3.8.2.2 AdditionalType <AddtlTp>*Presence:* [0..1]*Definition:* Additional information to specify the type of amount.*Datatype:* "Max35Text" on page 471**15.1.3.8.2.3 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.**Amount <Amt>** contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.8.2.4 OriginalAmount <OrgnlAmt>*Presence:* [0..1]*Definition:* Original value of the amount.**OriginalAmount <OrgnlAmt>** contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.8.3 AdditionalAmounts <AddtlAmts>*Presence:* [0..*]*Definition:* Additional amounts from the processor or the issuer without financial impacts on the transaction amount.**AdditionalAmounts <AddtlAmts>** contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		231
	AdditionalType <AddtlTp>	[0..1]	Text		232
	Amount <Amt>	[1..1]	Amount		232
	Label <Labl>	[0..1]	Text		232

15.1.3.8.3.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.8.3.2 AdditionalType <AddtlTp>*Presence:* [0..1]*Definition:* Additional information to specify the type of amount.*Datatype:* "Max35Text" on page 471**15.1.3.8.3.3 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.*Datatype:* "CurrencyAndAmount" on page 430**15.1.3.8.3.4 Label <Lbl>***Presence:* [0..1]*Definition:* Short description of the amount to provide to the cardholder.*Datatype:* "Max35Text" on page 471

15.1.3.8.4 MessageReason <MsgRsn>

Presence: [1..*]

Definition: Reason to send a card acquirer to issuer message.

It corresponds to ISO 8583, field number 25 for the version 93, and 9 for the version 2003.

Datatype: "MessageReason1Code" on page 453

CodeName	Name	Definition
ASTD	AcquirerStandin	Stand-in processing at the acquirer's option.
AMNT	AmountInconsistency	Amount inconsistent between request and response.
ASPC	CardAcceptorSuspicious	Card acceptor forced to be online.
CDCL	CardDeclined	Integrated circuit card declines the transaction after the authorisation.
COFF	CardProcessed	Transaction performed offline by the card.
CRND	CardRandomSelection	Random online decided by the card.
CRTN	CardRetained	Card left by the cardholder.
CUNB	CardUnableToProcess	Card cannot process offline the transaction.
CCAN	CustomerCancel	Customer cancellation, for example removing the chip card after sending the authorisation, but before the end of the transaction.
KDAC	DeactivatedKey	Deactivated key must be replaced.
ERRP	ErrorInResponse	Response message was invalid (for example a problem of format or security).
FLRL	FloorLimit	Transaction above or under the floor limit.
IDPS	InconsistentDeposit	Inconsistency between the items deposited and their declared value.
KINV	InvalidVerification	Verification of the key has failed.
ISGN	IssuerSignedOff	Issuer signed off.
ISTD	IssuerStandin	Stand-in processing at the issuer's option.
ITIM	IssuerTimeout	Issuer timed out on request.
IUNV	IssuerUnavailable	Issuer unavailable.
ENDK	LifeCycleEnd	End of key life cycle.
MLFC	Malfunction	Suspected malfunction (for example card reader defect, or printer out of order).
FDCL	OfflineDeclined	Offline authorisation declined the transaction.

CodeName	Name	Definition
NDCL	OnLineDeclined	Online authorisation declined the transaction.
FORC	OnlineForced	Forced online by card acceptor, terminal, card, or the issuer.
KSYN	OutOfSynchronisation	Keys not synchronised.
UDSP	UncompleteDispense	Cardholder did not take the presented items.
USND	UnableToSend	Unable to send the message.
UCMP	UnableToComplete	Card acceptor device unable to complete transaction after the authorisation response (for example, the written signature invalid).
LATE	TooLateResponse	Response to the authorisation received too late.
TIMO	TimeOut	Waiting for response from the receiver, or no response was received (for example connection release before receiving the response).
TUNB	TerminalUnableToProcess	Terminal cannot process offline the transaction.
TRND	TerminalRandomSelection	Random online decided by the terminal.
TOFF	TerminalProcessed	Transaction performed offline by the terminal.
SUSP	SuspectedFraud	Card transaction failed because the merchant suspected a fraud.
KSEC	SecurityReason	Security reasons.
RUNV	ReceiverUnavailable	Receiver unavailable.
RTIM	ReceiverTimeout	Receiver timed out on request.
RSTD	ReceiverStandin	Stand-in processing at the receiver's option.
RSGN	ReceiverSignedOff	Receiver signed off.
PART	PartiallyCompleted	Partial reversal.

15.1.3.8.5 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Data related to an integrated circuit card application.

It corresponds to ISO 8583, field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431

15.1.3.9 CardTransactionDetail4

Definition: Details of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			236
	TotalAmount <TtlAmt>	[1..1]	Amount		237
	CardholderBillingTransactionAmount <CrhdldrBllgTxAmt>	[0..1]			237
	Amount <Amt>	[1..1]	Amount		238
	ExchangeRate <XchgRate>	[1..1]	Rate		238
	QuotationDate <QtnDt>	[0..1]	DateTime		238
	Label <Labl>	[0..1]	Text		238
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			238
	Amount <Amt>	[1..1]	Amount		239
	ExchangeRate <XchgRate>	[1..1]	Rate		239
	QuotationDate <QtnDt>	[0..1]	DateTime		239
	Label <Labl>	[0..1]	Text		239
	DetailedAmount <DtldAmt>	[0..*]			239
	Type <Tp>	[1..1]	CodeSet		240
	AdditionalType <AddtlTp>	[0..1]	Text		240
	Amount <Amt>	[1..1]	Amount		240
	Label <Labl>	[0..1]	Text		240
	TransactionFees <TxFees>	[0..*]			241
	Type <Tp>	[1..1]	CodeSet		241
	AdditionalType <AddtlTp>	[0..1]	Text		241
	Amount <Amt>	[1..1]	±		241
	OriginalAmount <OrgnlAmt>	[0..1]	±		241
	AdditionalAmounts <AddtlAmts>	[0..*]			242
	Type <Tp>	[1..1]	CodeSet		242
	AdditionalType <AddtlTp>	[0..1]	Text		243
	Amount <Amt>	[1..1]	Amount		243
	Label <Labl>	[0..1]	Text		243
	AccountAndBalance <AcctAndBal>	[0..*]			243
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		244
	AccountName <AcctNm>	[0..1]	Text		245
	AccountOwner <AcctOwnr>	[0..1]			245

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		245
	Address <Adr>	[1..1]	±		246
	Currency <Ccy>	[0..1]	CodeSet		246
	AccountIdentifier <AcctIdr>	[0..1]			246
{Or	Card <Card>	[1..1]	Text		246
Or	MSISDN <MSISDN>	[1..1]	Text		247
Or	EMail <EMail>	[1..1]	Text		247
Or	IBAN <IBAN>	[1..1]	IdentifierSet		247
Or	BBAN <BBAN>	[1..1]	IdentifierSet		247
Or	UPIC <UPIC>	[1..1]	IdentifierSet		247
Or	Domestic <Dmst>	[1..1]	Text		247
Or}	Other <Othr>	[1..1]	Text		247
	Servicer <Svcr>	[0..1]			248
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		248
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		248
	Balance <Bal>	[0..1]	±		248
	BalanceDate <BalDt>	[0..1]	Date		249
	TransactionVerificationResult <TxVrfctnRsIt>	[0..*]			249
	Method <Mtd>	[1..1]	CodeSet		249
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		250
	Result <RsIt>	[0..1]	CodeSet		250
	AdditionalResult <AddtlRsIt>	[0..1]	Text		251
	ValidityDate <VldtyDt>	[0..1]	Date		251
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		251

15.1.3.9.1 TransactionAmounts <TxAmts>

Presence: [1..1]

Definition: Amounts of the transaction expressed within the terminal currency.

TransactionAmounts <TxAmts> contains the following **CardTransactionAmount4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		237
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			237
	Amount <Amt>	[1..1]	Amount		238
	ExchangeRate <XchgRate>	[1..1]	Rate		238
	QuotationDate <QtnDt>	[0..1]	DateTime		238
	Label <Labl>	[0..1]	Text		238
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			238
	Amount <Amt>	[1..1]	Amount		239
	ExchangeRate <XchgRate>	[1..1]	Rate		239
	QuotationDate <QtnDt>	[0..1]	DateTime		239
	Label <Labl>	[0..1]	Text		239
	DetailedAmount <DtldAmt>	[0..*]			239
	Type <Tp>	[1..1]	CodeSet		240
	AdditionalType <AddtlTp>	[0..1]	Text		240
	Amount <Amt>	[1..1]	Amount		240
	Label <Labl>	[0..1]	Text		240

15.1.3.9.1.1 TotalAmount <TtlAmt>

Presence: [1..1]

Definition: Total amount of the transaction.

It corresponds to ISO 8583, field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.9.1.2 CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>

Presence: [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in TransactionAmount. It may be populated by the scheme or intermediary processor as normally Acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrhdldrBllgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		238
	ExchangeRate <XchgRate>	[1..1]	Rate		238
	QuotationDate <QtnDt>	[0..1]	DateTime		238
	Label <Labl>	[0..1]	Text		238

15.1.3.9.1.2.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.9.1.2.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.9.1.2.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.9.1.2.4 Label <Labl>

Presence: [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.9.1.3 ReconciliationTransactionAmount <RcncltnTxAmt>

Presence: [0..1]

Definition: Only present within financial transactions when reconciliation currency differs from transaction currency. It may be populated by acquirers in the request or by the schemes in the responses, depending where the reconciliation point is located.

ReconciliationTransactionAmount <RcncltnTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		239
	ExchangeRate <XchgRate>	[1..1]	Rate		239
	QuotationDate <QtnDt>	[0..1]	DateTime		239
	Label <Labl>	[0..1]	Text		239

15.1.3.9.1.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.9.1.3.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.9.1.3.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.9.1.3.4 Label <Labl>

Presence: [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.9.1.4 DetailedAmount <DtldAmt>

Presence: [0..*]

Definition: Details of the TransactionAmount, for informational purposes only, except for cash back which is mandatory for a payment transaction with cashback. The transaction amount is not necessarily the sum of all the detailed amount values.

DetailedAmount <DtIdAmt> contains the following **DetailedAmount9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		240
	AdditionalType <AddtlTp>	[0..1]	Text		240
	Amount <Amt>	[1..1]	Amount		240
	Label <Labl>	[0..1]	Text		240

15.1.3.9.1.4.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount5Code" on page 464

CodeName	Name	Definition
CSHB	Cashback	Cash-back amount.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
GRTY	Gratuity	Gratuity amount.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMM	Commission	Commission, for example for DCC (Dynamic Currency Conversion) transactions.
DONN	Donation	Donation amount.
TAXT	Tax	Taxes applicable to the transaction.

15.1.3.9.1.4.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.9.1.4.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.9.1.4.4 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max140Text" on page 470

15.1.3.9.2 TransactionFees <TxFees>

Presence: [0..*]

Definition: Fees between acquirer and issuer exclusive of the transaction amount, and expressed in the currency of the reconciliation.

TransactionFees <TxFees> contains the following **DetailedAmount11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		241
	AdditionalType <AddtlTp>	[0..1]	Text		241
	Amount <Amt>	[1..1]	±		241
	OriginalAmount <OrgnlAmt>	[0..1]	±		241

15.1.3.9.2.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount7Code" on page 465

CodeName	Name	Definition
FEES	Fees	Fees.
FEEI	IssuerFees	Fees amount from the card issuer.
FEEH	InterchangeFees	Interchange fees.
FEPP	ProcessingFees	Processing fees.
FEEA	InternationalServiceAssessmentFees	International service assessment fees.

15.1.3.9.2.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.9.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Amount <Amt> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.9.2.4 OriginalAmount <OrgnlAmt>

Presence: [0..1]

Definition: Original value of the amount.

OriginalAmount <OrgnlAmt> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.9.3 AdditionalAmounts <AddtlAmts>

Presence: [0..*]

Definition: Additional amounts from the processor or the issuer without financial impacts on the transaction amount.

AdditionalAmounts <AddtlAmts> contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		242
	AdditionalType <AddtlTp>	[0..1]	Text		243
	Amount <Amt>	[1..1]	Amount		243
	Label <Lbl>	[0..1]	Text		243

15.1.3.9.3.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.

CodeName	Name	Definition
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.9.3.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.9.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.9.3.4 Label <Lbl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max35Text" on page 471

15.1.3.9.4 AccountAndBalance <AcctAndBal>

Presence: [0..*]

Definition: Account involved in the card transaction.

AccountAndBalance <AcctAndBal> contains the following **CardAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		244
	AccountName <AcctNm>	[0..1]	Text		245
	AccountOwner <AcctOwnr>	[0..1]			245
	Name <Nm>	[1..1]	Text		245
	Address <Adr>	[1..1]	±		246
	Currency <Ccy>	[0..1]	CodeSet		246
	AccountIdentifier <AcctIdr>	[0..1]			246
{Or	Card <Card>	[1..1]	Text		246
Or	MSISDN <MSISDN>	[1..1]	Text		247
Or	EMail <EMail>	[1..1]	Text		247
Or	IBAN <IBAN>	[1..1]	IdentifierSet		247
Or	BBAN <BBAN>	[1..1]	IdentifierSet		247
Or	UPIC <UPIC>	[1..1]	IdentifierSet		247
Or	Domestic <Dmst>	[1..1]	Text		247
Or}	Other <Othr>	[1..1]	Text		247
	Servicer <Svcr>	[0..1]			248
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		248
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		248
	Balance <Bal>	[0..1]	±		248
	BalanceDate <BalDt>	[0..1]	Date		249

15.1.3.9.4.1 SelectedAccountType <SelctdAcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.

CodeName	Name	Definition
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.

15.1.3.9.4.2 AccountName <AcctNm>

Presence: [0..1]

Definition: Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

Datatype: "Max70Text" on page 473

15.1.3.9.4.3 AccountOwner <AcctOwnr>

Presence: [0..1]

Definition: Party that legally owns the account.

AccountOwner <AcctOwnr> contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		245
	Address <Adr>	[1..1]	±		246

15.1.3.9.4.3.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and is usually used to identify that identity.

Datatype: "Max70Text" on page 473

15.1.3.9.4.3.2 Address <Adr>*Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.9.4.4 Currency <Ccy>*Presence:* [0..1]*Definition:* Identification of the currency in which the account is held.*Datatype:* "ActiveCurrencyCode" on page 434**15.1.3.9.4.5 AccountIdentifier <Acctldr>***Presence:* [0..1]*Definition:* Unique identifier of the account, as assigned by the account servicer.**AccountIdentifier <Acctldr>** contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		246
Or	MSISDN <MSISDN>	[1..1]	Text		247
Or	EMail <EMail>	[1..1]	Text		247
Or	IBAN <IBAN>	[1..1]	IdentifierSet		247
Or	BBAN <BBAN>	[1..1]	IdentifierSet		247
Or	UPIC <UPIC>	[1..1]	IdentifierSet		247
Or	Domestic <Dmst>	[1..1]	Text		247
Or}	Other <Othr>	[1..1]	Text		247

15.1.3.9.4.5.1 Card <Card>*Presence:* [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.9.4.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.9.4.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.9.4.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.9.4.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.9.4.5.6 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 468

15.1.3.9.4.5.7 Domestic <Dmst>

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.

Datatype: "Max35Text" on page 471

15.1.3.9.4.5.8 Other <Othr>

Presence: [1..1]

Definition: Other identifier.

Datatype: "Max35Text" on page 471

15.1.3.9.4.6 Servicer <Svcr>

Presence: [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		248
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		248

15.1.3.9.4.6.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIdentifier" on page 467

15.1.3.9.4.6.2 ProprietaryIdentification <PrtryId>

Presence: [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "[GenericIdentification1](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.9.4.7 Balance <Bal>

Presence: [0..1]

Definition: Balance of the account.

Balance <Bal> contains the following elements (see "[AmountAndDirection41](#)" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.9.4.8 BalanceDate <BalDt>

Presence: [0..1]

Definition: Date of the balance.

Datatype: "ISODate" on page 466

15.1.3.9.5 TransactionVerificationResult <TxVrfctnRsIt>

Presence: [0..*]

Definition: Results of the verifications performed by the various agents during the processing of the transaction.

TransactionVerificationResult <TxVrfctnRsIt> contains the following **TransactionVerificationResult4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Method <Mtd>	[1..1]	CodeSet		249
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		250
	Result <RsIt>	[0..1]	CodeSet		250
	AdditionalResult <AddtlRsIt>	[0..1]	Text		251

15.1.3.9.5.1 Method <Mtd>

Presence: [1..1]

Definition: Method of verification that has been performed.

Datatype: "AuthenticationMethod6Code" on page 440

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.

CodeName	Name	Definition
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.

15.1.3.9.5.2 VerificationEntity <VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 439

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.

15.1.3.9.5.3 Result <Rslt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 466

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.

CodeName	Name	Definition
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

15.1.3.9.5.4 AdditionalResult <AddtlRslt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 472

15.1.3.9.6 ValidityDate <VldtyDt>

Presence: [0..1]

Definition: Transaction authorisation deadline to complete the related payment.

It corresponds to ISO 8583, field number 57 for the version 93, and 3 for the version 2003.

Datatype: "ISODate" on page 466

15.1.3.9.7 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Data related to an integrated circuit card application.

It corresponds to ISO 8583, field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431

15.1.3.10 CardTransaction5

Definition: Card transaction for which the financial authorisation is requested.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		255
	AdditionalService <AddtlSvc>	[0..*]	CodeSet		256
	ServiceAttribute <SvcAttr>	[0..1]	CodeSet		257
	MerchantCategoryCode <MrchntCtgyCd>	[0..1]	Text		257
	Reconciliation <Rcncltn>	[0..1]	±		257
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		258
	AcceptorTransactionIdentification <AccptrTxId>	[1..1]	Text		258
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		258
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		258
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		258
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		259
	AcquirerTransactionReference <AcqrrTxRef>	[0..1]	Text		259
	CardIssuerReferenceData <CardlssrRefData>	[0..1]	Text		259
	OriginalTransaction <OrgnlTx>	[0..1]	±		259
	TransactionDetails <TxDtls>	[1..1]			259
	TransactionAmounts <TxAmts>	[1..1]			263
	TotalAmount <TtlAmt>	[1..1]	Amount		263
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		263
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			264
	Amount <Amt>	[1..1]	Amount		264
	ExchangeRate <XchgRate>	[1..1]	Rate		264
	QuotationDate <QtnDt>	[0..1]	DateTime		264
	Label <Lbl>	[0..1]	Text		265
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			265
	Amount <Amt>	[1..1]	Amount		265
	ExchangeRate <XchgRate>	[1..1]	Rate		265
	QuotationDate <QtnDt>	[0..1]	DateTime		265
	Label <Lbl>	[0..1]	Text		265
	DetailedAmount <DtlAmt>	[0..*]			266
	Type <Tp>	[1..1]	CodeSet		266

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AdditionalType <AddtlTp>	[0..1]	Text		266
	Amount <Amt>	[1..1]	Amount		266
	Label <Lbl>	[0..1]	Text		267
	TransactionFees <TxFees>	[0..*]			267
	Type <Tp>	[1..1]	CodeSet		267
	AdditionalType <AddtlTp>	[0..1]	Text		267
	Amount <Amt>	[1..1]	±		267
	OriginalAmount <OrgnlAmt>	[0..1]	±		268
	AdditionalAmounts <AddtlAmts>	[0..*]			268
	Type <Tp>	[1..1]	CodeSet		268
	AdditionalType <AddtlTp>	[0..1]	Text		269
	Amount <Amt>	[1..1]	Amount		269
	Label <Lbl>	[0..1]	Text		269
	MessageReason <MsgRsn>	[0..1]	CodeSet		269
	ValidityDate <VldtyDt>	[0..1]	Date		271
	UnattendedLevelCategory <UatnnddLvCtgy>	[0..1]	Text		271
	AccountFrom <AcctFr>	[0..1]			271
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		272
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		273
	AccountName <AcctNm>	[0..1]	Text		273
	AccountOwner <AcctOwnr>	[0..1]			273
	Name <Nm>	[1..1]	Text		274
	Address <Adr>	[1..1]	±		274
	AccountIdentifier <AcctIdr>	[0..1]			274
{Or	Card <Card>	[1..1]	Text		275
Or	MSISDN <MSISDN>	[1..1]	Text		275
Or	EMail <EMail>	[1..1]	Text		275
Or	IBAN <IBAN>	[1..1]	IdentifierSet		275
Or	BBAN <BBAN>	[1..1]	IdentifierSet		275
Or	UPIC <UPIC>	[1..1]	IdentifierSet		276
Or	Domestic <Dmst>	[1..1]	Text		276

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or}	Other <Othr>	[1..1]	Text		276
	Servicer <Svcr>	[0..1]			276
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		276
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		276
	AccountTo <AcctTo>	[0..1]			277
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		277
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		278
	AccountName <AcctNm>	[0..1]	Text		279
	AccountOwner <AcctOwnr>	[0..1]			279
	Name <Nm>	[1..1]	Text		279
	Address <Adr>	[1..1]	±		279
	AccountIdentifier <AcctIdr>	[0..1]			279
{Or	Card <Card>	[1..1]	Text		280
Or	MSISDN <MSISDN>	[1..1]	Text		280
Or	EMail <EMail>	[1..1]	Text		280
Or	IBAN <IBAN>	[1..1]	IdentifierSet		280
Or	BBAN <BBAN>	[1..1]	IdentifierSet		280
Or	UPIC <UPIC>	[1..1]	IdentifierSet		281
Or	Domestic <Dmst>	[1..1]	Text		281
Or}	Other <Othr>	[1..1]	Text		281
	Servicer <Svcr>	[0..1]			281
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		281
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		281
	Instalment <Instlmt>	[0..1]	±		282
	AntiMoneyLaundering <AML>	[0..1]			282
	SenderName <SndrNm>	[0..1]	Text		283
	SenderAddress <SndrAdr>	[0..1]			283
	AddressLine <AdrLine>	[0..2]	Text		284
	StreetName <StrtNm>	[0..1]	Text		284
	BuildingNumber <BldgNb>	[0..1]	Text		284
	PostCode <PstCd>	[0..1]	Text		284

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TownName <TwnNm>	[1..1]	Text		284
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		284
	Country <Ctry>	[1..1]	CodeSet		285
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		285
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		285
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		285
	PassportIssuingCountry <PsptlssgCtry>	[0..1]	Text		285
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		285
	TaxCountry <TaxCtry>	[0..1]	Text		285
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		285
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		286
	ReceiverName <RcvrNm>	[0..1]	Text		286
	TransactionReference <TxRef>	[0..1]	Text		286
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		286
	AuthorisationResult <AuthstnRslt>	[0..1]	±		286

15.1.3.10.1 TransactionType <TxTp>

Presence: [1..1]

Definition: Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583 field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.

CodeName	Name	Definition
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

15.1.3.10.2 AdditionalService <AddtlSvc>

Presence: [0..*]

Definition: Service in addition to the main service.

It correspond partially to the ISO 8583:2003 field number 22-3.

Datatype: "CardPaymentServiceType8Code" on page 445

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
CSHB	CashBack	Card payment with cash-back.
CSWD	ChosenWithdrawal	Amount and notes values are chosen by the customer.
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.

CodeName	Name	Definition
AUWS	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel (amount could be absent).
PFWD	ProfileWithdrawal	Amount and Notes Values are pre-defined by the customer profile.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
SDWD	StandardWithdrawal	Customer pressed a button associated with a withdrawal of unique amount and notes mix.
VCAU	VoiceAuthorisation	Voice authorisation.
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.
INST	Instant	Instant transaction

15.1.3.10.3 ServiceAttribute <SvcAttr>

Presence: [0..1]

Definition: Additional attribute of the service type.

It correspond partially to the ISO 8583:2003 field number 22-3.

Datatype: "CardPaymentServiceType3Code" on page 444

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

15.1.3.10.4 MerchantCategoryCode <MrchntCtgyCd>

Presence: [0..1]

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

It correspond to the ISO 8583 field number 18 for the version 87, field numbers 18 and 26 for the version 93, and field number 26 for the version 2003.

Datatype: "Min3Max4NumericText" on page 473

15.1.3.10.5 Reconciliation <Rcncltn>

Presence: [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see "TransactionIdentifier2" on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

15.1.3.10.6 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583 field number 12.

Datatype: "ISODateTime" on page 467

15.1.3.10.7 AcceptorTransactionIdentification <AccptrTxId>

Presence: [1..1]

Definition: Unique transaction identification generated by the acceptor or the acquirer transported unchanged by the acquirer from the card acceptor to the issuer. It is used to assist locating the original source information. Eventually it could be included in the cardholder statement. It corresponds to ISO 8583, field 37 and CAPE data element TransactionIdentification/TransactionReference.

Datatype: "Max35Text" on page 471

15.1.3.10.8 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: "Max35Text" on page 471

15.1.3.10.9 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: "Max35Text" on page 471

15.1.3.10.10 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>

Presence: [0..1]

Definition: Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003 field number 21.

Datatype: ["Number" on page 469](#)

15.1.3.10.11 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>

Presence: [0..1]

Definition: Total number of transactions under the same life cycle transaction sequence number.

Datatype: ["Number" on page 469](#)

15.1.3.10.12 AcquirerTransactionReference <AcqrrTxRef>

Presence: [0..1]

Definition: Data supplied by an acquirer at clearing time to assist in identifying the original transaction in subsequent messages, for example when researching retrievals and chargebacks. It corresponds to ISO 8583:2003 field number 31, acquirer reference number.

Datatype: ["Max35NumericText" on page 471](#)

15.1.3.10.13 CardIssuerReferenceData <CardIssrRefData>

Presence: [0..1]

Definition: Data supplied by a card issuer in response messages or in issuer generated messages, that the acquirer may be required to be provided in subsequent messages. It corresponds to ISO 8583:93 and 2003 field number 95.

Datatype: ["Max140Text" on page 470](#)

15.1.3.10.14 OriginalTransaction <OrgnlTx>

Presence: [0..1]

Definition: Identification of the original transaction.

It corresponds to ISO 8583, field number 90 for the version 87, and 56 for the other versions.

OriginalTransaction <OrgnlTx> contains the following elements (see ["CardTransaction3" on page 357](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		357
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		358
	InitiatorIdentification <InitrId>	[1..1]	Text		358

15.1.3.10.15 TransactionDetails <TxDtIs>

Presence: [1..1]

Definition: Details of the card transaction.

TransactionDetails <TxDtIs> contains the following **CardTransactionDetail3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			263
	TotalAmount <TtlAmt>	[1..1]	Amount		263
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		263
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			264
	Amount <Amt>	[1..1]	Amount		264
	ExchangeRate <XchgRate>	[1..1]	Rate		264
	QuotationDate <QtnDt>	[0..1]	DateTime		264
	Label <Lbl>	[0..1]	Text		265
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			265
	Amount <Amt>	[1..1]	Amount		265
	ExchangeRate <XchgRate>	[1..1]	Rate		265
	QuotationDate <QtnDt>	[0..1]	DateTime		265
	Label <Lbl>	[0..1]	Text		265
	DetailedAmount <DtldAmt>	[0..*]			266
	Type <Tp>	[1..1]	CodeSet		266
	AdditionalType <AddtlTp>	[0..1]	Text		266
	Amount <Amt>	[1..1]	Amount		266
	Label <Lbl>	[0..1]	Text		267
	TransactionFees <TxFees>	[0..*]			267
	Type <Tp>	[1..1]	CodeSet		267
	AdditionalType <AddtlTp>	[0..1]	Text		267
	Amount <Amt>	[1..1]	±		267
	OriginalAmount <OrgnlAmt>	[0..1]	±		268
	AdditionalAmounts <AddtlAmts>	[0..*]			268
	Type <Tp>	[1..1]	CodeSet		268
	AdditionalType <AddtlTp>	[0..1]	Text		269
	Amount <Amt>	[1..1]	Amount		269
	Label <Lbl>	[0..1]	Text		269
	MessageReason <MsgRsn>	[0..1]	CodeSet		269
	ValidityDate <VldtyDt>	[0..1]	Date		271

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	UnattendedLevelCategory <UatndddLvlCtgy>	[0..1]	Text		271
	AccountFrom <AcctFr>	[0..1]			271
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		272
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		273
	AccountName <AcctNm>	[0..1]	Text		273
	AccountOwner <AcctOwnr>	[0..1]			273
	Name <Nm>	[1..1]	Text		274
	Address <Adr>	[1..1]	±		274
	AccountIdentifier <AcctIdr>	[0..1]			274
{Or	Card <Card>	[1..1]	Text		275
Or	MSISDN <MSISDN>	[1..1]	Text		275
Or	EMail <EMail>	[1..1]	Text		275
Or	IBAN <IBAN>	[1..1]	IdentifierSet		275
Or	BBAN <BBAN>	[1..1]	IdentifierSet		275
Or	UPIC <UPIC>	[1..1]	IdentifierSet		276
Or	Domestic <Dmst>	[1..1]	Text		276
Or}	Other <Othr>	[1..1]	Text		276
	Servicer <Svcr>	[0..1]			276
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		276
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		276
	AccountTo <AcctTo>	[0..1]			277
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		277
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		278
	AccountName <AcctNm>	[0..1]	Text		279
	AccountOwner <AcctOwnr>	[0..1]			279
	Name <Nm>	[1..1]	Text		279
	Address <Adr>	[1..1]	±		279
	AccountIdentifier <AcctIdr>	[0..1]			279
{Or	Card <Card>	[1..1]	Text		280
Or	MSISDN <MSISDN>	[1..1]	Text		280
Or	EMail <EMail>	[1..1]	Text		280

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	IBAN <IBAN>	[1..1]	IdentifierSet		280
Or	BBAN <BBAN>	[1..1]	IdentifierSet		280
Or	UPIC <UPIC>	[1..1]	IdentifierSet		281
Or	Domestic <Dmst>	[1..1]	Text		281
Or}	Other <Othr>	[1..1]	Text		281
	Servicer <Svcr>	[0..1]			281
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		281
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		281
	Instalment <Instlmt>	[0..1]	±		282
	AntiMoneyLaundering <AML>	[0..1]			282
	SenderName <SndrNm>	[0..1]	Text		283
	SenderAddress <SndrAdr>	[0..1]			283
	AddressLine <AdrLine>	[0..2]	Text		284
	StreetName <StrtNm>	[0..1]	Text		284
	BuildingNumber <BldgNb>	[0..1]	Text		284
	PostCode <PstCd>	[0..1]	Text		284
	TownName <TwnNm>	[1..1]	Text		284
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		284
	Country <Ctry>	[1..1]	CodeSet		285
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		285
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		285
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		285
	PassportIssuingCountry <PsptIssgCtry>	[0..1]	Text		285
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		285
	TaxCountry <TaxCtry>	[0..1]	Text		285
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		285
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		286
	ReceiverName <RcvrNm>	[0..1]	Text		286
	TransactionReference <TxRef>	[0..1]	Text		286
	ICCRelatedData <ICCRItdData>	[0..1]	Binary		286

15.1.3.10.15.1 TransactionAmounts <TxAmts>*Presence:* [1..1]*Definition:* Amounts of the transaction expressed within the terminal currency.**TransactionAmounts <TxAmts>** contains the following **CardTransactionAmount3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		263
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		263
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			264
	Amount <Amt>	[1..1]	Amount		264
	ExchangeRate <XchgRate>	[1..1]	Rate		264
	QuotationDate <QtnDt>	[0..1]	DateTime		264
	Label <Lbl>	[0..1]	Text		265
	ReconciliationTransactionAmount <RcncltnTxAmt>	[0..1]			265
	Amount <Amt>	[1..1]	Amount		265
	ExchangeRate <XchgRate>	[1..1]	Rate		265
	QuotationDate <QtnDt>	[0..1]	DateTime		265
	Label <Lbl>	[0..1]	Text		265
	DetailedAmount <DtldAmt>	[0..*]			266
	Type <Tp>	[1..1]	CodeSet		266
	AdditionalType <AddtlTp>	[0..1]	Text		266
	Amount <Amt>	[1..1]	Amount		266
	Label <Lbl>	[0..1]	Text		267

15.1.3.10.15.1.1 TotalAmount <TtlAmt>*Presence:* [1..1]*Definition:* Total amount of the transaction.

It corresponds to ISO 8583, field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430**15.1.3.10.15.1.2 AmountQualifier <AmtQlfr>***Presence:* [0..1]*Definition:* Qualifies the amount of the transaction.*Datatype:* "TypeOfAmount1Code" on page 463

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.

15.1.3.10.15.1.3 CardholderBillingTransactionAmount <CrhdldrBlIgTxAmt>

Presence: [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in TransactionAmount. It may be populated by the scheme or intermediary processor as normally Acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrhdldrBlIgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		264
	ExchangeRate <XchgRate>	[1..1]	Rate		264
	QuotationDate <QtnDt>	[0..1]	DateTime		264
	Label <Lbl>	[0..1]	Text		265

15.1.3.10.15.1.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.10.15.1.3.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.10.15.1.3.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.10.15.1.3.4 Label <Labl>*Presence:* [0..1]*Definition:* Text to display on the cardholder or to print on the cardholder bank statement.*Datatype:* "Max140Text" on page 470**15.1.3.10.15.1.4 ReconciliationTransactionAmount <RcncltnTxAmt>***Presence:* [0..1]*Definition:* Only present within financial transactions when reconciliation currency differs from transaction currency. It may be populated by acquirers in the request or by the schemes in the responses, depending where the reconciliation point is located.**ReconciliationTransactionAmount <RcncltnTxAmt>** contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		265
	ExchangeRate <XchgRate>	[1..1]	Rate		265
	QuotationDate <QtnDt>	[0..1]	DateTime		265
	Label <Labl>	[0..1]	Text		265

15.1.3.10.15.1.4.1 Amount <Amt>*Presence:* [1..1]*Definition:* Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430**15.1.3.10.15.1.4.2 ExchangeRate <XchgRate>***Presence:* [1..1]*Definition:* Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469**15.1.3.10.15.1.4.3 QuotationDate <QtnDt>***Presence:* [0..1]*Definition:* Date and time at which the exchange rate has been quoted.*Datatype:* "ISODateTime" on page 467**15.1.3.10.15.1.4.4 Label <Labl>***Presence:* [0..1]*Definition:* Text to display on the cardholder or to print on the cardholder bank statement.*Datatype:* "Max140Text" on page 470

15.1.3.10.15.1.5 DetailedAmount <DtIdAmt>*Presence:* [0..*]*Definition:* Details of the transaction amount, for informational purpose, for instance to be included within cardholder statement.

It corresponds partially to ISO 8583, field number 54.

DetailedAmount <DtIdAmt> contains the following **DetailedAmount9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		266
	AdditionalType <AddtlTp>	[0..1]	Text		266
	Amount <Amt>	[1..1]	Amount		266
	Label <Labl>	[0..1]	Text		267

15.1.3.10.15.1.5.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount5Code" on page 464

CodeName	Name	Definition
CSHB	Cashback	Cash-back amount.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
GRTY	Gratuity	Gratuity amount.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMM	Commission	Commission, for example for DCC (Dynamic Currency Conversion) transactions.
DONN	Donation	Donation amount.
TAXT	Tax	Taxes applicable to the transaction.

15.1.3.10.15.1.5.2 AdditionalType <AddtlTp>*Presence:* [0..1]*Definition:* Additional information to specify the type of amount.*Datatype:* "Max35Text" on page 471**15.1.3.10.15.1.5.3 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.10.15.1.5.4 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max140Text" on page 470

15.1.3.10.15.2 TransactionFees <TxFees>

Presence: [0..*]

Definition: Fees between acquirer and issuer exclusive of the transaction amount, and expressed in the currency of the reconciliation.

TransactionFees <TxFees> contains the following **DetailedAmount11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		267
	AdditionalType <AddtlTp>	[0..1]	Text		267
	Amount <Amt>	[1..1]	±		267
	OriginalAmount <OrgnlAmt>	[0..1]	±		268

15.1.3.10.15.2.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount7Code" on page 465

CodeName	Name	Definition
FEES	Fees	Fees.
FEEI	IssuerFees	Fees amount from the card issuer.
FEED	InterchangeFees	Interchange fees.
FEED	ProcessingFees	Processing fees.
FEED	InternationalServiceAssessmentFees	International service assessment fees.

15.1.3.10.15.2.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.10.15.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Amount <Amt> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.10.15.2.4 OriginalAmount <OrgnlAmt>

Presence: [0..1]

Definition: Original value of the amount.

OriginalAmount <OrgnlAmt> contains the following elements (see "AmountAndDirection41" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.10.15.3 AdditionalAmounts <AddtlAmts>

Presence: [0..*]

Definition: Additional amounts from the processor or the issuer without financial impacts on the transaction amount.

AdditionalAmounts <AddtlAmts> contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		268
	AdditionalType <AddtlTp>	[0..1]	Text		269
	Amount <Amt>	[1..1]	Amount		269
	Label <Lbl>	[0..1]	Text		269

15.1.3.10.15.3.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the

CodeName	Name	Definition
		transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.10.15.3.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.10.15.3.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.10.15.3.4 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max35Text" on page 471

15.1.3.10.15.4 MessageReason <MsgRsn>

Presence: [0..1]

Definition: Reason to send a card acquirer to issuer message.

It corresponds to ISO 8583 field number 25 for the version 93, and field number 9 for the version 2003.

Datatype: "MessageReason1Code" on page 453

CodeName	Name	Definition
ASTD	AcquirerStandin	Stand-in processing at the acquirer's option.
AMNT	AmountInconsistency	Amount inconsistent between request and response.
ASPC	CardAcceptorSuspicious	Card acceptor forced to be online.
CDCL	CardDeclined	Integrated circuit card declines the transaction after the authorisation.
COFF	CardProcessed	Transaction performed offline by the card.
CRND	CardRandomSelection	Random online decided by the card.
CRTN	CardRetained	Card left by the cardholder.
CUNB	CardUnableToProcess	Card cannot process offline the transaction.
CCAN	CustomerCancel	Customer cancellation, for example removing the chip card after sending the authorisation, but before the end of the transaction.
KDAC	DeactivatedKey	Deactivated key must be replaced.
ERRP	ErrorInResponse	Response message was invalid (for example a problem of format or security).
FLRL	FloorLimit	Transaction above or under the floor limit.
IDPS	InconsistentDeposit	Inconsistency between the items deposited and their declared value.
KINV	InvalidVerification	Verification of the key has failed.
ISGN	IssuerSignedOff	Issuer signed off.
ISTD	IssuerStandin	Stand-in processing at the issuer's option.
ITIM	IssuerTimeout	Issuer timed out on request.
IUNV	IssuerUnavailable	Issuer unavailable.
ENDK	LifeCycleEnd	End of key life cycle.
MLFC	Malfunction	Suspected malfunction (for example card reader defect, or printer out of order).
FDCL	OfflineDeclined	Offline authorisation declined the transaction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
FORC	OnlineForced	Forced online by card acceptor, terminal, card, or the issuer.
KSYN	OutOfSynchronisation	Keys not synchronised.
UDSP	UncompleteDispense	Cardholder did not take the presented items.
USND	UnableToSend	Unable to send the message.

CodeName	Name	Definition
UCMP	UnableToComplete	Card acceptor device unable to complete transaction after the authorisation response (for example, the written signature invalid).
LATE	TooLateResponse	Response to the authorisation received too late.
TIMO	TimeOut	Waiting for response from the receiver, or no response was received (for example connection release before receiving the response).
TUNB	TerminalUnableToProcess	Terminal cannot process offline the transaction.
TRND	TerminalRandomSelection	Random online decided by the terminal.
TOFF	TerminalProcessed	Transaction performed offline by the terminal.
SUSP	SuspectedFraud	Card transaction failed because the merchant suspected a fraud.
KSEC	SecurityReason	Security reasons.
RUNV	ReceiverUnavailable	Receiver unavailable.
RTIM	ReceiverTimeout	Receiver timed out on request.
RSTD	ReceiverStandin	Stand-in processing at the receiver's option.
RSGN	ReceiverSignedOff	Receiver signed off.
PART	PartiallyCompleted	Partial reversal.

15.1.3.10.15.5 ValidityDate <VldtyDt>

Presence: [0..1]

Definition: Transaction authorisation deadline to complete the related payment.

It corresponds to ISO 8583 field number 57 for the version 93, and field number 3 for the version 2003.

Datatype: "ISODate" on page 466

15.1.3.10.15.6 UnattendedLevelCategory <UattnddLvlCtgy>

Presence: [0..1]

Definition: Transaction category level on an unattended terminal.

Datatype: "Max35NumericText" on page 471

15.1.3.10.15.7 AccountFrom <AcctFr>

Presence: [0..1]

Definition: Way to identify a customer account or a relationship to its account affected for debits, inquiries and the "from" account for transfers.

AccountFrom <AcctFr> contains the following **CardAccount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		272
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		273
	AccountName <AcctNm>	[0..1]	Text		273
	AccountOwner <AcctOwnr>	[0..1]			273
	Name <Nm>	[1..1]	Text		274
	Address <Adr>	[1..1]	±		274
	AccountIdentifier <Acctldr>	[0..1]			274
{Or	Card <Card>	[1..1]	Text		275
Or	MSISDN <MSISDN>	[1..1]	Text		275
Or	EMail <EMail>	[1..1]	Text		275
Or	IBAN <IBAN>	[1..1]	IdentifierSet		275
Or	BBAN <BBAN>	[1..1]	IdentifierSet		275
Or	UPIC <UPIC>	[1..1]	IdentifierSet		276
Or	Domestic <Dmst>	[1..1]	Text		276
Or}	Other <Othr>	[1..1]	Text		276
	Servicer <Svcr>	[0..1]			276
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		276
Or}	ProprietaryIdentification <Prtryld>	[1..1]	±		276

15.1.3.10.15.7.1 SelectionMethod <SelctnMtd>

Presence: [0..1]

Definition: Method used by the cardholder and the terminal for the choice of the account.

Datatype: "AccountChoiceMethod1Code" on page 432

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

15.1.3.10.15.7.2 SelectedAccountType <SelctdAcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.

15.1.3.10.15.7.3 AccountName <AcctNm>

Presence: [0..1]

Definition: Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

Datatype: "Max70Text" on page 473

15.1.3.10.15.7.4 AccountOwner <AcctOwnr>

Presence: [0..1]

Definition: Party that legally owns the account.

AccountOwner <AcctOwnr> contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		274
	Address <Adr>	[1..1]	±		274

15.1.3.10.15.7.4.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and is usually used to identify that identity.

Datatype: "Max70Text" on page 473

15.1.3.10.15.7.4.2 Address <Adr>

Presence: [1..1]

Definition: Postal address of a party.

Address <Adr> contains the following elements (see "PostalAddress1" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.10.15.7.5 AccountIdentifier <AcctIdr>

Presence: [0..1]

Definition: Unique identifier of the account, as assigned by the account servicer.

AccountIdentifier <AcctIdr> contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		275
Or	MSISDN <MSISDN>	[1..1]	Text		275
Or	EMail <EMail>	[1..1]	Text		275
Or	IBAN <IBAN>	[1..1]	IdentifierSet		275
Or	BBAN <BBAN>	[1..1]	IdentifierSet		275
Or	UPIC <UPIC>	[1..1]	IdentifierSet		276
Or	Domestic <Dmst>	[1..1]	Text		276
Or}	Other <Othr>	[1..1]	Text		276

15.1.3.10.15.7.5.1 Card <Card>

Presence: [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.10.15.7.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.10.15.7.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.10.15.7.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.10.15.7.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.10.15.7.5.6 UPIC <UPIC>*Presence:* [1..1]

Definition: Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

Datatype: "UPIIdentifier" on page 468**15.1.3.10.15.7.5.7 Domestic <Dmst>***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.

Datatype: "Max35Text" on page 471**15.1.3.10.15.7.5.8 Other <Othr>***Presence:* [1..1]*Definition:* Other identifier.*Datatype:* "Max35Text" on page 471**15.1.3.10.15.7.6 Servicer <Svcr>***Presence:* [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		276
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		276

15.1.3.10.15.7.6.1 AnyBIC <AnyBIC>*Presence:* [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIdentifier" on page 467**15.1.3.10.15.7.6.2 ProprietaryIdentification <PrtryId>***Presence:* [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "[GenericIdentification1](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.10.15.8 AccountTo <AcctTo>

Presence: [0..1]

Definition: Way to identify a customer account or a relationship to its account affected for credits and the "to" account for transfers.

AccountTo <AcctTo> contains the following **CardAccount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		277
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		278
	AccountName <AcctNm>	[0..1]	Text		279
	AccountOwner <AcctOwnr>	[0..1]			279
	Name <Nm>	[1..1]	Text		279
	Address <Adr>	[1..1]	±		279
	AccountIdentifier <AcctIdr>	[0..1]			279
{Or	Card <Card>	[1..1]	Text		280
Or	MSISDN <MSISDN>	[1..1]	Text		280
Or	E-Mail <EMail>	[1..1]	Text		280
Or	IBAN <IBAN>	[1..1]	IdentifierSet		280
Or	BBAN <BBAN>	[1..1]	IdentifierSet		280
Or	UPIC <UPIC>	[1..1]	IdentifierSet		281
Or	Domestic <Dmst>	[1..1]	Text		281
Or}	Other <Othr>	[1..1]	Text		281
	Servicer <Svcr>	[0..1]			281
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		281
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		281

15.1.3.10.15.8.1 SelectionMethod <SelctnMtd>

Presence: [0..1]

Definition: Method used by the cardholder and the terminal for the choice of the account.

Datatype: "AccountChoiceMethod1Code" on page 432

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

15.1.3.10.15.8.2 SelectedAccountType <SelctdAcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.

15.1.3.10.15.8.3 AccountName <AcctNm>*Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.*Datatype:* "Max70Text" on page 473**15.1.3.10.15.8.4 AccountOwner <AcctOwnr>***Presence:* [0..1]*Definition:* Party that legally owns the account.**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		279
	Address <Adr>	[1..1]	±		279

15.1.3.10.15.8.4.1 Name <Nm>*Presence:* [1..1]*Definition:* Name by which a party is known and is usually used to identify that identity.*Datatype:* "Max70Text" on page 473**15.1.3.10.15.8.4.2 Address <Adr>***Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.10.15.8.5 AccountIdentifier <AcctIdr>*Presence:* [0..1]

Definition: Unique identifier of the account, as assigned by the account servicer.

AccountIdentifier <AcctIdr> contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		280
Or	MSISDN <MSISDN>	[1..1]	Text		280
Or	EMail <EMail>	[1..1]	Text		280
Or	IBAN <IBAN>	[1..1]	IdentifierSet		280
Or	BBAN <BBAN>	[1..1]	IdentifierSet		280
Or	UPIC <UPIC>	[1..1]	IdentifierSet		281
Or	Domestic <Dmst>	[1..1]	Text		281
Or}	Other <Othr>	[1..1]	Text		281

15.1.3.10.15.8.5.1 Card <Card>

Presence: [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.10.15.8.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.10.15.8.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.10.15.8.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.10.15.8.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.10.15.8.5.6 UPIC <UPIC>

Presence: [1..1]

Definition: Universal Payment Identification Code (UPIC) - identifier used by the New York Clearing House to mask confidential data, such as bank accounts and bank routing numbers. UPIC numbers remain with business customers, regardless of banking relationship changes.

Datatype: "UPIIdentifier" on page 468

15.1.3.10.15.8.5.7 Domestic <Dmst>

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.

Datatype: "Max35Text" on page 471

15.1.3.10.15.8.5.8 Other <Othr>

Presence: [1..1]

Definition: Other identifier.

Datatype: "Max35Text" on page 471

15.1.3.10.15.8.6 Servicer <Svcr>

Presence: [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		281
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		281

15.1.3.10.15.8.6.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIdentifier" on page 467

15.1.3.10.15.8.6.2 ProprietaryIdentification <PrtryId>

Presence: [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "[GenericIdentification1](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.10.15.9 Instalment <Instlmt>

Presence: [0..1]

Definition: Data related to a financial loan (instalment) or to a recurring transaction.

Instalment <Instlmt> contains the following elements (see "[RecurringTransaction2](#)" on page 206 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InstalmentPlan <InstlmtPlan>	[0..*]	CodeSet		206
	PlanIdentification <PlanId>	[0..1]	Text		207
	SequenceNumber <SeqNb>	[0..1]	Quantity		207
	PeriodUnit <PrdUnit>	[0..1]	CodeSet		207
	InstalmentPeriod <InstlmtPrd>	[0..1]	Quantity		207
	TotalNumberOfPayments <TtlNbOfPmts>	[0..1]	Quantity		207
	FirstPaymentDate <FrstPmtDt>	[0..1]	Date		208
	TotalAmount <TtlAmt>	[0..1]	Amount		208
	FirstAmount <FrstAmt>	[0..1]	Amount		208
	Charges <Chrgs>	[0..1]	Amount		208

15.1.3.10.15.10 AntiMoneyLaundering <AML>

Presence: [0..1]

Definition: Information requested against money laundering for a transfer transaction.

AntiMoneyLaundering <AML> contains the following **AntiMoneyLaundering1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SenderName <SndrNm>	[0..1]	Text		283
	SenderAddress <SndrAdr>	[0..1]			283
	AddressLine <AdrLine>	[0..2]	Text		284
	StreetName <StrtNm>	[0..1]	Text		284
	BuildingNumber <BldgNb>	[0..1]	Text		284
	PostCode <PstCd>	[0..1]	Text		284
	TownName <TwnNm>	[1..1]	Text		284
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		284
	Country <Ctry>	[1..1]	CodeSet		285
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		285
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		285
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		285
	PassportIssuingCountry <PsptlssgCtry>	[0..1]	Text		285
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		285
	TaxCountry <TaxCtry>	[0..1]	Text		285
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		285
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		286
	ReceiverName <RcvrNm>	[0..1]	Text		286
	TransactionReference <TxRef>	[0..1]	Text		286

15.1.3.10.15.10.1 SenderName <SndrNm>

Presence: [0..1]

Definition: Name of the sender.

Datatype: "Max70Text" on page 473

15.1.3.10.15.10.2 SenderAddress <SndrAdr>

Presence: [0..1]

Definition: Address of the sender.

SenderAddress <SndrAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		284
	StreetName <StrtNm>	[0..1]	Text		284
	BuildingNumber <BldgNb>	[0..1]	Text		284
	PostCode <PstCd>	[0..1]	Text		284
	TownName <TwnNm>	[1..1]	Text		284
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		284
	Country <Ctry>	[1..1]	CodeSet		285

15.1.3.10.15.10.2.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.3.10.15.10.2.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.3.10.15.10.2.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.3.10.15.10.2.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.3.10.15.10.2.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.2.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.2.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.3.10.15.10.3 SenderNationalIdentifier <SndrNtlldr>

Presence: [0..1]

Definition: National identifier number of the sender.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.4 NationalIdentifierCountry <NtlldrCtry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.10.15.10.5 SenderPassportNumber <SndrPsptNb>

Presence: [0..1]

Definition: Passport number of the sender.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.6 PassportIssuingCountry <PsptlssgCtry>

Presence: [0..1]

Definition: Country issuing the passport (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.10.15.10.7 SenderTaxIdentifier <SndrTaxldr>

Presence: [0..1]

Definition: Tax identifier of the sender.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.8 TaxCountry <TaxCtry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.10.15.10.9 SenderCustomerIdentifier <SndrCstmrlldr>

Presence: [0..1]

Definition: Customer identifier of the sender.

Datatype: "Max35Text" on page 471

15.1.3.10.15.10.10 SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>*Presence:* [0..1]*Definition:* Date and place of birth of the sender.

SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth> contains the following elements (see "DateAndPlaceOfBirth" on page 425 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		425
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		425
	CityOfBirth <CityOfBirth>	[1..1]	Text		425
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet		426

15.1.3.10.15.10.11 ReceiverName <RcvrNm>*Presence:* [0..1]*Definition:* Name of the receiver.*Datatype:* "Max70Text" on page 473**15.1.3.10.15.10.12 TransactionReference <TxRef>***Presence:* [0..1]*Definition:* Unique transaction reference number for sender and the receiver.*Datatype:* "Max35Text" on page 471**15.1.3.10.15.11 ICCRelatedData <ICCRltdData>***Presence:* [0..1]*Definition:* Data related to an integrated circuit card application.

It corresponds to ISO 8583 field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431**15.1.3.10.16 AuthorisationResult <AuthstnRsIt>***Presence:* [0..1]*Definition:* Outcome of the authorisation.

AuthorisationResult <AuthstnRslt> contains the following elements (see "AuthorisationResult7" on page 328 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			329
	Identification <Id>	[0..1]	Text		329
	Type <Tp>	[1..1]	CodeSet		329
	Issuer <Issr>	[0..1]	CodeSet		330
	Country <Ctry>	[0..1]	Text		330
	ShortName <ShrtNm>	[0..1]	Text		330
	TransactionResponse <TxRspn>	[1..1]	±		331
	AuthorisationCode <AuthstnCd>	[0..1]	Text		331
	AdditionalInformation <AddtlInf>	[0..*]			331
	Destination <Dstn>	[1..1]	CodeSet		331
	Format <Frmt>	[0..1]	CodeSet		331
	Content <Cnnt>	[1..1]	Text		332

15.1.3.11 AuthorisationResult8

Definition: Outcome of the authorisation.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			288
	Identification <Id>	[0..1]	Text		289
	Type <Tp>	[1..1]	CodeSet		289
	Issuer <Issr>	[0..1]	CodeSet		289
	Country <Ctry>	[0..1]	Text		290
	ShortName <ShrtNm>	[0..1]	Text		290
	TransactionResponse <TxRspn>	[1..1]	±		290
	Action <Actn>	[0..*]			290
	ActionType <ActnTp>	[1..1]	CodeSet		290
	MessageToPresent <MsgToPres>	[0..1]			291
	MessageDestination <MsgDstn>	[1..1]	CodeSet		291
	Format <Frmt>	[0..1]	CodeSet		292
	MessageContent <MsgCntt>	[1..1]	Text		292
	MessageContentSignature <MsgCnttSgntr>	[0..1]	Binary		292
	AuthorisationCode <AuthstnCd>	[0..1]	Text		292
	AdditionalInformation <AddtlInf>	[0..*]			292
	Destination <Dstn>	[1..1]	CodeSet		293
	Format <Frmt>	[0..1]	CodeSet		293
	Content <Cntt>	[1..1]	Text		293

15.1.3.11.1 AuthorisationEntity <AuthstnNtty>

Presence: [0..1]

Definition: Type of party that has delivered or declined the card payment authorisation (the party is not identified).

AuthorisationEntity <AuthstnNtty> contains the following **GenericIdentification75** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		289
	Type <Tp>	[1..1]	CodeSet		289
	Issuer <Issr>	[0..1]	CodeSet		289
	Country <Ctry>	[0..1]	Text		290
	ShortName <ShrtNm>	[0..1]	Text		290

15.1.3.11.1.1 Identification <Id>*Presence:* [0..1]*Definition:* Identification of the entity.*Datatype:* "Max35Text" on page 471**15.1.3.11.1.2 Type <Tp>***Presence:* [1..1]*Definition:* Type of identified entity.*Datatype:* "PartyType11Code" on page 456

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
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.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
ICCA	CardApplication	Application in the smart card.

15.1.3.11.1.3 Issuer <Issr>*Presence:* [0..1]*Definition:* Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).*Datatype:* "PartyType9Code" on page 457

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ACQP	AcquirerProcessor	Entity providing acquiring card payment processing services on behalf on an acquirer.
CISS	CardIssuer	Party that issues cards.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
CSCH	CardScheme	Entity defining rules and procedures for card payment transactions acting as an intermediary between an acquirer and an issuer.
SCHP	CardSchemeProcessor	Entity providing card payment processing services acting on behalf of a card scheme.

15.1.3.11.1.4 Country <Ctry>*Presence:* [0..1]*Definition:* Country of the entity (ISO 3166-1 alpha-2 or alpha-3).*Datatype:* "Min2Max3AlphaText" on page 473**15.1.3.11.1.5 ShortName <ShrtNm>***Presence:* [0..1]*Definition:* Name of the entity.*Datatype:* "Max35Text" on page 471**15.1.3.11.2 TransactionResponse <TxRspn>***Presence:* [1..1]*Definition:* Response to an authorisation request.**TransactionResponse <TxRspn>** contains the following elements (see "ResponseType2" on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <RsIt>	[1..1]	CodeSet		222
	ResultDetails <RsItDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsItInf>	[0..1]	Text		226

15.1.3.11.3 Action <Actn>*Presence:* [0..*]*Definition:* Set of actions to be performed by the card acceptor.**Action <Actn>** contains the following **Action4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ActionType <ActnTp>	[1..1]	CodeSet		290
	MessageToPresent <MsgToPres>	[0..1]			291
	MessageDestination <MsgDstn>	[1..1]	CodeSet		291
	Format <Frmt>	[0..1]	CodeSet		292
	MessageContent <MsgCntt>	[1..1]	Text		292
	MessageContentSignature <MsgCnttSgntr>	[0..1]	Binary		292

15.1.3.11.3.1 ActionType <ActnTp>*Presence:* [1..1]*Definition:* Type of action to be performed by the card acceptor.*Datatype:* "ActionType5Code" on page 433

CodeName	Name	Definition
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
NOVR	ForbidOverride	Payment application cannot propose to the merchant an override of the payment transaction.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
PRNT	PrintMessage	Print a message.
RFRL	Referral	Referral has to be performed.
RQDT	RequestData	Request additional data through a displayed text and request confirmation by an attendant.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

15.1.3.11.3.2 MessageToPresent <MsgToPres>

Presence: [0..1]

Definition: Message to be displayed to the cardholder or the cashier.

MessageToPresent <MsgToPres> contains the following **ActionMessage2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	MessageDestination <MsgDstn>	[1..1]	CodeSet		291
	Format <Frmt>	[0..1]	CodeSet		292
	MessageContent <MsgCntt>	[1..1]	Text		292
	MessageContentSignature <MsgCnttSgntr>	[0..1]	Binary		292

15.1.3.11.3.2.1 MessageDestination <MsgDstn>

Presence: [1..1]

Definition: Destination of the message.

Datatype: "UserInterface4Code" on page 466

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.

CodeName	Name	Definition
CRDO	OtherCardholderInterface	Other interface of the cardholder, for instance e-mail or smartphone message.

15.1.3.11.3.2.2 Format <Frmt>*Presence:* [0..1]*Definition:* Message format.*Datatype:* "OutputFormat1Code" on page 455

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

15.1.3.11.3.2.3 MessageContent <MsgCntt>*Presence:* [1..1]*Definition:* Content or reference of the message.*Datatype:* "Max20000Text" on page 470**15.1.3.11.3.2.4 MessageContentSignature <MsgCnttSgntr>***Presence:* [0..1]*Definition:* Digital signature of the message.*Datatype:* "Max140Binary" on page 431**15.1.3.11.4 AuthorisationCode <AuthstnCd>***Presence:* [0..1]*Definition:* Value assigned by the authorising party.*Datatype:* "Min6Max8Text" on page 473**15.1.3.11.5 AdditionalInformation <AddtlInf>***Presence:* [0..*]*Definition:* Additional information relevant for the destination.**AdditionalInformation <AddtlInf>** contains the following **ActionMessage3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Destination <Dstrn>	[1..1]	CodeSet		293
	Format <Frmt>	[0..1]	CodeSet		293
	Content <Cntt>	[1..1]	Text		293

15.1.3.11.5.1 Destination <Dstn>*Presence:* [1..1]*Definition:* Destination of the information.*Datatype:* ["UserInterface3Code" on page 465](#)

CodeName	Name	Definition
ACQU	Acquirer	Acquirer.
AGNT	Agent	Agent.
ISSR	Issuer	Issuer.

15.1.3.11.5.2 Format <Frmt>*Presence:* [0..1]*Definition:* Format of the content.*Datatype:* ["OutputFormat1Code" on page 455](#)

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

15.1.3.11.5.3 Content <Cntt>*Presence:* [1..1]*Definition:* Content of the information.*Datatype:* ["Max20000Text" on page 470](#)**15.1.3.12 CardTransactionDetail2***Definition:* Details of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			295
	TotalAmount <TtlAmt>	[1..1]	Amount		296
	CardholderBillingTransactionAmount <CrhdldrBllgTxAmt>	[0..1]			296
	Amount <Amt>	[1..1]	Amount		296
	ExchangeRate <XchgRate>	[1..1]	Rate		296
	QuotationDate <QtnDt>	[0..1]	DateTime		296
	Label <Labl>	[0..1]	Text		296
	DetailedAmount <DtldAmt>	[0..*]			297
	Type <Tp>	[1..1]	CodeSet		297
	AdditionalType <AddtlTp>	[0..1]	Text		297
	Amount <Amt>	[1..1]	Amount		298
	Label <Labl>	[0..1]	Text		298
	AdditionalAmounts <AddtlAmts>	[0..*]			298
	Type <Tp>	[1..1]	CodeSet		298
	AdditionalType <AddtlTp>	[0..1]	Text		299
	Amount <Amt>	[1..1]	Amount		299
	Label <Labl>	[0..1]	Text		299
	AccountAndBalance <AcctAndBal>	[0..*]			299
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		300
	AccountName <AcctNm>	[0..1]	Text		301
	AccountOwner <AcctOwnr>	[0..1]			301
	Name <Nm>	[1..1]	Text		301
	Address <Adr>	[1..1]	±		302
	Currency <Ccy>	[0..1]	CodeSet		302
	AccountIdentifier <AcctIdr>	[0..1]			302
{Or	Card <Card>	[1..1]	Text		302
Or	MSISDN <MSISDN>	[1..1]	Text		303
Or	EMail <EMail>	[1..1]	Text		303
Or	IBAN <IBAN>	[1..1]	IdentifierSet		303
Or	BBAN <BBAN>	[1..1]	IdentifierSet		303
Or	UPIC <UPIC>	[1..1]	IdentifierSet		303

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	Domestic <Dmst>	[1..1]	Text		303
Or}	Other <Othr>	[1..1]	Text		303
	Servicer <Svcr>	[0..1]			304
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		304
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		304
	Balance <Bal>	[0..1]	±		304
	BalanceDate <BalDt>	[0..1]	Date		305
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			305
	Method <Mtd>	[1..1]	CodeSet		305
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		306
	Result <Rslt>	[0..1]	CodeSet		306
	AdditionalResult <AddtlRslt>	[0..1]	Text		307
	ValidityDate <VldtyDt>	[0..1]	Date		307
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		307

15.1.3.12.1 TransactionAmounts <TxAmts>

Presence: [1..1]

Definition: Amounts of the transaction expressed within the terminal currency.

TransactionAmounts <TxAmts> contains the following **CardTransactionAmount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		296
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			296
	Amount <Amt>	[1..1]	Amount		296
	ExchangeRate <XchgRate>	[1..1]	Rate		296
	QuotationDate <QtnDt>	[0..1]	DateTime		296
	Label <Labl>	[0..1]	Text		296
	DetailedAmount <DtldAmt>	[0..*]			297
	Type <Tp>	[1..1]	CodeSet		297
	AdditionalType <AddtlTp>	[0..1]	Text		297
	Amount <Amt>	[1..1]	Amount		298
	Label <Labl>	[0..1]	Text		298

15.1.3.12.1.1 TotalAmount <TtlAmt>*Presence:* [1..1]*Definition:* Total amount of the transaction.

It corresponds to ISO 8583, field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430**15.1.3.12.1.2 CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>***Presence:* [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in TransactionAmount. It may be populated by the scheme or intermediary processor as normally Acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrdhldrBllgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		296
	ExchangeRate <XchgRate>	[1..1]	Rate		296
	QuotationDate <QtnDt>	[0..1]	DateTime		296
	Label <Lbl>	[0..1]	Text		296

15.1.3.12.1.2.1 Amount <Amt>*Presence:* [1..1]*Definition:* Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430**15.1.3.12.1.2.2 ExchangeRate <XchgRate>***Presence:* [1..1]*Definition:* Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469**15.1.3.12.1.2.3 QuotationDate <QtnDt>***Presence:* [0..1]*Definition:* Date and time at which the exchange rate has been quoted.*Datatype:* "ISODateTime" on page 467**15.1.3.12.1.2.4 Label <Lbl>***Presence:* [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.12.1.3 DetailedAmount <DtIdAmt>

Presence: [0..*]

Definition: Details of the TransactionAmount, for informational purposes only, except for cash back which is mandatory for a payment transaction with cashback. The transaction amount is not necessarily the sum of all the detailed amount values.

DetailedAmount <DtIdAmt> contains the following **DetailedAmount9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		297
	AdditionalType <AddtlTp>	[0..1]	Text		297
	Amount <Amt>	[1..1]	Amount		298
	Label <Labl>	[0..1]	Text		298

15.1.3.12.1.3.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount5Code" on page 464

CodeName	Name	Definition
CSHB	Cashback	Cash-back amount.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
GRTY	Gratuity	Gratuity amount.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMM	Commission	Commission, for example for DCC (Dynamic Currency Conversion) transactions.
DONN	Donation	Donation amount.
TAXT	Tax	Taxes applicable to the transaction.

15.1.3.12.1.3.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.12.1.3.3 Amount <Amt>*Presence:* [1..1]*Definition:* Amount value.*Datatype:* "ImpliedCurrencyAndAmount" on page 430**15.1.3.12.1.3.4 Label <Labl>***Presence:* [0..1]*Definition:* Short description of the amount to provide to the cardholder.*Datatype:* "Max140Text" on page 470**15.1.3.12.2 AdditionalAmounts <AddtlAmts>***Presence:* [0..*]*Definition:* Additional amounts from the processor or the issuer without financial impacts on the transaction amount.**AdditionalAmounts <AddtlAmts>** contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		298
	AdditionalType <AddtlTp>	[0..1]	Text		299
	Amount <Amt>	[1..1]	Amount		299
	Label <Labl>	[0..1]	Text		299

15.1.3.12.2.1 Type <Tp>*Presence:* [1..1]*Definition:* Type or class of amount.*Datatype:* "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount

CodeName	Name	Definition
		currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.12.2.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.12.2.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.12.2.4 Label <Lbl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max35Text" on page 471

15.1.3.12.3 AccountAndBalance <AcctAndBal>

Presence: [0..*]

Definition: Account involved in the card transaction.

AccountAndBalance <AcctAndBal> contains the following **CardAccount2** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		300
	AccountName <AcctNm>	[0..1]	Text		301
	AccountOwner <AcctOwnr>	[0..1]			301
	Name <Nm>	[1..1]	Text		301
	Address <Adr>	[1..1]	±		302
	Currency <Ccy>	[0..1]	CodeSet		302
	AccountIdentifier <AcctIdr>	[0..1]			302
{Or	Card <Card>	[1..1]	Text		302
Or	MSISDN <MSISDN>	[1..1]	Text		303
Or	EMail <EMail>	[1..1]	Text		303
Or	IBAN <IBAN>	[1..1]	IdentifierSet		303
Or	BBAN <BBAN>	[1..1]	IdentifierSet		303
Or	UPIC <UPIC>	[1..1]	IdentifierSet		303
Or	Domestic <Dmst>	[1..1]	Text		303
Or}	Other <Othr>	[1..1]	Text		303
	Servicer <Svcr>	[0..1]			304
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		304
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		304
	Balance <Bal>	[0..1]	±		304
	BalanceDate <BalDt>	[0..1]	Date		305

15.1.3.12.3.1 SelectedAccountType <SelctdAcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.

CodeName	Name	Definition
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.

15.1.3.12.3.2 AccountName <AcctNm>

Presence: [0..1]

Definition: Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

Datatype: "Max70Text" on page 473

15.1.3.12.3.3 AccountOwner <AcctOwnr>

Presence: [0..1]

Definition: Party that legally owns the account.

AccountOwner <AcctOwnr> contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		301
	Address <Adr>	[1..1]	±		302

15.1.3.12.3.3.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and is usually used to identify that identity.

Datatype: "Max70Text" on page 473

15.1.3.12.3.3.2 Address <Adr>*Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.12.3.4 Currency <Ccy>*Presence:* [0..1]*Definition:* Identification of the currency in which the account is held.*Datatype:* "ActiveCurrencyCode" on page 434**15.1.3.12.3.5 AccountIdentifier <AcctIdr>***Presence:* [0..1]*Definition:* Unique identifier of the account, as assigned by the account servicer.**AccountIdentifier <AcctIdr>** contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		302
Or	MSISDN <MSISDN>	[1..1]	Text		303
Or	EMail <EMail>	[1..1]	Text		303
Or	IBAN <IBAN>	[1..1]	IdentifierSet		303
Or	BBAN <BBAN>	[1..1]	IdentifierSet		303
Or	UPIC <UPIC>	[1..1]	IdentifierSet		303
Or	Domestic <Dmst>	[1..1]	Text		303
Or}	Other <Othr>	[1..1]	Text		303

15.1.3.12.3.5.1 Card <Card>*Presence:* [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.12.3.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.12.3.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.12.3.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.12.3.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.12.3.5.6 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 468

15.1.3.12.3.5.7 Domestic <Dmst>

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.

Datatype: "Max35Text" on page 471

15.1.3.12.3.5.8 Other <Othr>

Presence: [1..1]

Definition: Other identifier.

Datatype: "Max35Text" on page 471

15.1.3.12.3.6 Servicer <Svcr>

Presence: [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		304
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		304

15.1.3.12.3.6.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIdentifier" on page 467

15.1.3.12.3.6.2 ProprietaryIdentification <PrtryId>

Presence: [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "[GenericIdentification1](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.12.3.7 Balance <Bal>

Presence: [0..1]

Definition: Balance of the account.

Balance <Bal> contains the following elements (see "[AmountAndDirection41](#)" on page 387 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.12.3.8 BalanceDate <BalDt>*Presence:* [0..1]*Definition:* Date of the balance.*Datatype:* "ISODate" on page 466**15.1.3.12.4 TransactionVerificationResult <TxVrfctnRsIt>***Presence:* [0..*]*Definition:* Results of the verifications performed by the various agents during the processing of the transaction.**TransactionVerificationResult <TxVrfctnRsIt>** contains the following **TransactionVerificationResult4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Method <Mtd>	[1..1]	CodeSet		305
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		306
	Result <RsIt>	[0..1]	CodeSet		306
	AdditionalResult <AddtlRsIt>	[0..1]	Text		307

15.1.3.12.4.1 Method <Mtd>*Presence:* [1..1]*Definition:* Method of verification that has been performed.*Datatype:* "AuthenticationMethod6Code" on page 440

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.

CodeName	Name	Definition
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.

15.1.3.12.4.2 VerificationEntity <VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 439

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.

15.1.3.12.4.3 Result <Rslt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 466

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.

CodeName	Name	Definition
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

15.1.3.12.4 AdditionalResult <AddtlRslt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 472

15.1.3.12.5 ValidityDate <VldtyDt>

Presence: [0..1]

Definition: Transaction authorisation deadline to complete the related payment.

It corresponds to ISO 8583, field number 57 for the version 93, and 3 for the version 2003.

Datatype: "ISODate" on page 466

15.1.3.12.6 ICCRelatedData <ICCRltdData>

Presence: [0..1]

Definition: Data related to an integrated circuit card application.

It corresponds to ISO 8583, field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431

15.1.3.13 CardTransaction4

Definition: Card transaction for which the authorisation has been requested.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionType <TxTp>	[1..1]	CodeSet		308
	Reconciliation <Rcncltn>	[0..1]	±		308
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		309
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		309
	TransactionLifeCycleIdentification <TxLifeCyclId>	[0..1]	Text		309
	TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>	[0..1]	Quantity		309
	TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>	[0..1]	Quantity		309
	CardIssuerReferenceData <CardIssrRefData>	[0..1]	Text		310
	TransactionDetails <TxDtls>	[1..1]	±		310
	AuthorisationResult <AuthstnRslt>	[0..1]	±		312

15.1.3.13.1 TransactionType <TxTp>*Presence:* [1..1]*Definition:* Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583, field number 3.

Datatype: "CardPaymentServiceType7Code" on page 444

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

15.1.3.13.2 Reconciliation <Rcncltn>*Presence:* [0..1]

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Reconciliation <Rcncltn> contains the following elements (see ["TransactionIdentifier2"](#) on page 358 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

15.1.3.13.3 AcceptorTransactionDateTime <AccptrTxDtTm>

Presence: [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583, field number 12.

Datatype: ["ISODateTime"](#) on page 467

15.1.3.13.4 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction Initiator to assist in identifying a transaction uniquely. This value remains unchanged for all messages within a message pair exchange, for instance an initiation/response. It corresponds to the ISO 8583 field number 11.

Datatype: ["Max35Text"](#) on page 471

15.1.3.13.5 TransactionLifeCycleIdentification <TxLifeCyclId>

Presence: [0..1]

Definition: Unique identification to match transactions throughout their life cycle (for example, authorisation to financial presentment, financial presentment to chargeback). It shall contain the same value in all messages throughout a transaction's life cycle. It corresponds partially to ISO 8583:2003 field number 21.

Datatype: ["Max35Text"](#) on page 471

15.1.3.13.6 TransactionLifeCycleSequenceNumber <TxLifeCyclSeqNb>

Presence: [0..1]

Definition: Life cycle transaction sequence number when multiple authorisations are performed for the same presentment.

It corresponds partially to ISO 8583:2003, field number 21.

Datatype: ["Number"](#) on page 469

15.1.3.13.7 TransactionLifeCycleSequenceCounter <TxLifeCyclSeqCntr>

Presence: [0..1]

Definition: Total number of transactions under the same life cycle transaction sequence number.

Datatype: "Number" on page 469

15.1.3.13.8 CardIssuerReferenceData <CardIssrRefData>

Presence: [0..1]

Definition: Data supplied by a card issuer in response messages or in issuer generated messages, that the acquirer may be required to be provided in subsequent messages. It corresponds to ISO 8583:93 and 2003 field number 95.

Datatype: "Max140Text" on page 470

15.1.3.13.9 TransactionDetails <TxDtIs>

Presence: [1..1]

Definition: Details of the card transaction.

TransactionDetails <TxDtIs> contains the following elements (see "CardTransactionDetail2" on page 293 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			295
	TotalAmount <TtlAmt>	[1..1]	Amount		296
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			296
	Amount <Amt>	[1..1]	Amount		296
	ExchangeRate <XchgRate>	[1..1]	Rate		296
	QuotationDate <QtnDt>	[0..1]	DateTime		296
	Label <Lbl>	[0..1]	Text		296
	DetailedAmount <DtldAmt>	[0..*]			297
	Type <Tp>	[1..1]	CodeSet		297
	AdditionalType <AddtlTp>	[0..1]	Text		297
	Amount <Amt>	[1..1]	Amount		298
	Label <Lbl>	[0..1]	Text		298
	AdditionalAmounts <AddtlAmts>	[0..*]			298
	Type <Tp>	[1..1]	CodeSet		298
	AdditionalType <AddtlTp>	[0..1]	Text		299
	Amount <Amt>	[1..1]	Amount		299
	Label <Lbl>	[0..1]	Text		299
	AccountAndBalance <AcctAndBal>	[0..*]			299
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		300
	AccountName <AcctNm>	[0..1]	Text		301
	AccountOwner <AcctOwnr>	[0..1]			301
	Name <Nm>	[1..1]	Text		301
	Address <Adr>	[1..1]	±		302
	Currency <Ccy>	[0..1]	CodeSet		302
	AccountIdentifier <AcctIdr>	[0..1]			302
{Or	Card <Card>	[1..1]	Text		302
Or	MSISDN <MSISDN>	[1..1]	Text		303
Or	EMail <EMail>	[1..1]	Text		303
Or	IBAN <IBAN>	[1..1]	IdentifierSet		303
Or	BBAN <BBAN>	[1..1]	IdentifierSet		303

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	UPIC <UPIC>	[1..1]	IdentifierSet		303
Or	Domestic <Dmst>	[1..1]	Text		303
Or}	Other <Othr>	[1..1]	Text		303
	Servicer <Svcr>	[0..1]			304
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		304
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		304
	Balance <Bal>	[0..1]	±		304
	BalanceDate <BalDt>	[0..1]	Date		305
	TransactionVerificationResult <TxVrfctnRslt>	[0..*]			305
	Method <Mtd>	[1..1]	CodeSet		305
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		306
	Result <Rslt>	[0..1]	CodeSet		306
	AdditionalResult <AddtlRslt>	[0..1]	Text		307
	ValidityDate <VldtyDt>	[0..1]	Date		307
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		307

15.1.3.13.10 AuthorisationResult <AuthstnRslt>

Presence: [0..1]

Definition: Outcome of the authorisation.

AuthorisationResult <AuthstnRslt> contains the following elements (see "AuthorisationResult8" on page 287 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			288
	Identification <Id>	[0..1]	Text		289
	Type <Tp>	[1..1]	CodeSet		289
	Issuer <Issr>	[0..1]	CodeSet		289
	Country <Ctry>	[0..1]	Text		290
	ShortName <ShrtNm>	[0..1]	Text		290
	TransactionResponse <TxRspn>	[1..1]	±		290
	Action <Actn>	[0..*]			290
	ActionType <ActnTp>	[1..1]	CodeSet		290
	MessageToPresent <MsgToPres>	[0..1]			291
	MessageDestination <MsgDstn>	[1..1]	CodeSet		291
	Format <Frmt>	[0..1]	CodeSet		292
	MessageContent <MsgCntt>	[1..1]	Text		292
	MessageContentSignature <MsgCnttSgntr>	[0..1]	Binary		292
	AuthorisationCode <AuthstnCd>	[0..1]	Text		292
	AdditionalInformation <AddtlInf>	[0..*]			292
	Destination <Dstn>	[1..1]	CodeSet		293
	Format <Frmt>	[0..1]	CodeSet		293
	Content <Cntt>	[1..1]	Text		293

15.1.3.14 CardTransactionContext4

Definition: Context of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SpecialConditions <SpclConds>	[0..*]			313
	Program <Prgrm>	[1..1]	Text		314
	Value <Val>	[0..1]	Text		314

15.1.3.14.1 SpecialConditions <SpclConds>

Presence: [0..*]

Definition: Data used to assign specific condition such as liability shift or preferential interchange fees.

SpecialConditions <SpclConds> contains the following **CardTransactionCondition1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Program <Prgm>	[1..1]	Text		314
	Value <Val>	[0..1]	Text		314

15.1.3.14.1.1 Program <Prgm>

Presence: [1..1]

Definition: Identification of the specific condition.

Datatype: "Max35Text" on page 471

15.1.3.14.1.2 Value <Val>

Presence: [0..1]

Definition: Level of the condition.

Datatype: "Max35Text" on page 471

15.1.3.15 EncapsulatedContent3

Definition: Data to authenticate.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		314
	Content <Cntt>	[0..1]	Binary		315

15.1.3.15.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been authenticated.

Datatype: "ContentType2Code" on page 448

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

15.1.3.15.2 Content <Cntt>

Presence: [0..1]

Definition: Actual data to authenticate.

Datatype: "Max100KBinary" on page 431

15.1.3.16 AlgorithmIdentification15

Definition: Identification of a cryptographic algorithm and parameters for the MAC computation.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		315
	Parameter <Param>	[0..1]			316
	InitialisationVector <InitlstrVctr>	[0..1]	Binary		316
	BytePadding <BPddg>	[0..1]	CodeSet		316

15.1.3.16.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the MAC algorithm.

Datatype: "Algorithm12Code" on page 435

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	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

CodeName	Name	Definition
		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.

15.1.3.16.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the MAC algorithm.

Parameter <Param> contains the following **Parameter7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		316
	BytePadding <BPddg>	[0..1]	CodeSet		316

15.1.3.16.2.1 InitialisationVector <InitlStnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 432

15.1.3.16.2.2 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 441

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.

CodeName	Name	Definition
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

15.1.3.17 Recipient4Choice

Definition: Transport key or key encryption key (KEK) for the recipient.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			319
	Version <Vrsn>	[0..1]	Quantity		319
	RecipientIdentification <RcptId>	[1..1]			319
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			320
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		321
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			322
	Algorithm <Algo>	[1..1]	CodeSet		322
	Parameter <Param>	[0..1]			322
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324
	EncryptedKey <NcrptdKey>	[1..1]	Binary		325
Or	KEK <KEK>	[1..1]			325
	Version <Vrsn>	[0..1]	Quantity		325
	KEKIdentification <KEKId>	[1..1]	±		325
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			326
	Algorithm <Algo>	[1..1]	CodeSet		326
	Parameter <Param>	[0..1]			327
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327
	EncryptedKey <NcrptdKey>	[1..1]	Binary		328
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		328

15.1.3.17.1 KeyTransport <KeyTrnsprt>

Presence: [1..1]

Definition: Encryption key using previously distributed asymmetric public key.

KeyTransport <KeyTrnsprt> contains the following **KeyTransport4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		319
	RecipientIdentification <Rcptld>	[1..1]			319
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			320
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321
Or}	KeyIdentifier <Keyldr>	[1..1]	±		321
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			322
	Algorithm <Algo>	[1..1]	CodeSet		322
	Parameter <Param>	[0..1]			322
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324
	EncryptedKey <NcrptdKey>	[1..1]	Binary		325

15.1.3.17.1.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 469

15.1.3.17.1.2 RecipientIdentification <Rcptld>

Presence: [1..1]

Definition: Identification of a cryptographic asymmetric key for the recipient.

RecipientIdentification <RcptId> contains one of the following **Recipient5Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			320
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321
Or}	KeyIdentifier <Keyldr>	[1..1]	±		321

15.1.3.17.1.2.1 IssuerAndSerialNumber <IssrAndSrlNb>

Presence: [1..1]

Definition: Certificate issuer name and serial number (see ITU X.509).

IssuerAndSerialNumber <IssrAndSrlNb> contains the following **IssuerAndSerialNumber1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321

15.1.3.17.1.2.1.1 Issuer <Issr>

Presence: [1..1]

Definition: Certificate issuer name (see X.509).

Issuer <Issr> contains the following **CertificateIssuer1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321

15.1.3.17.1.2.1.1.1 RelativeDistinguishedName <RltvDstngshdNm>

Presence: [1..*]

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

RelativeDistinguishedName <RltvDstngshdNm> contains the following **RelativeDistinguishedName1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321

15.1.3.17.1.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

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

Datatype: "AttributeType1Code" on page 438

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

15.1.3.17.1.2.1.1.1.2 AttributeValue <AttrVal>

Presence: [1..1]

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

Datatype: "Max140Text" on page 470

15.1.3.17.1.2.1.2 SerialNumber <SrINb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max35Binary" on page 432

15.1.3.17.1.2.2 KeyIdentifier <Keyldr>

Presence: [1..1]

Definition: Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

KeyIdentifier <Keyldr> contains the following elements (see "KEKIdentifier2" on page 208 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		208
	KeyVersion <KeyVrsn>	[1..1]	Text		208
	SequenceNumber <SeqNb>	[0..1]	Quantity		209
	DerivationIdentification <DerivtnId>	[0..1]	Binary		209

15.1.3.17.1.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm to encrypt the key encryption key (KEK).

KeyEncryptionAlgorithm <**KeyNcrptnAlgo**> contains the following **AlgorithmIdentification11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		322
	Parameter <Param>	[0..1]			322
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324

15.1.3.17.1.3.1 Algorithm <Algo>

Presence: [1..1]

Definition: Asymmetric encryption algorithm of a transport key.

Datatype: "Algorithm7Code" on page 438

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).

15.1.3.17.1.3.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters of the encryption algorithm.

Parameter <Param> contains the following **Parameter4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324

15.1.3.17.1.3.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat1Code" on page 450

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.

15.1.3.17.1.3.2.2 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm11Code" on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.17.1.3.2.3 MaskGeneratorAlgorithm <MskGnrtrAlgo>

Presence: [0..1]

Definition: Mask generator function cryptographic algorithm and parameters.

MaskGeneratorAlgorithm <MskGnrtrAlgo> contains the following **AlgorithmIdentification12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324

15.1.3.17.1.3.2.3.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 438

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

15.1.3.17.1.3.2.3.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the mask generator function cryptographic algorithm

Parameter <Param> contains the following **Parameter5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324

15.1.3.17.1.3.2.3.2.1 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm11Code" on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.17.1.4 EncryptedKey <NcrptdKey>*Presence:* [1..1]*Definition:* Encrypted key encryption key (KEK).*Datatype:* "Max5000Binary" on page 432**15.1.3.17.2 KEK <KEK>***Presence:* [1..1]*Definition:* Key encryption key using previously distributed symmetric key.**KEK <KEK>** contains the following **KEK4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		325
	KEKIdentification <KEKId>	[1..1]	±		325
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			326
	Algorithm <Algo>	[1..1]	CodeSet		326
	Parameter <Param>	[0..1]			327
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327
	EncryptedKey <NcrptdKey>	[1..1]	Binary		328

15.1.3.17.2.1 Version <Vrsn>*Presence:* [0..1]*Definition:* Version of the data structure.*Datatype:* "Number" on page 469**15.1.3.17.2.2 KEKIdentification <KEKId>***Presence:* [1..1]*Definition:* Identification of the key encryption key (KEK).**KEKIdentification <KEKId>** contains the following elements (see "KEKIdentifier2" on page 208 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		208
	KeyVersion <KeyVrsn>	[1..1]	Text		208
	SequenceNumber <SeqNb>	[0..1]	Quantity		209
	DerivationIdentification <DerivtnId>	[0..1]	Binary		209

15.1.3.17.2.3 KeyEncryptionAlgorithm <KeyNcrptnAlgo>*Presence:* [1..1]*Definition:* Algorithm to encrypt the key encryption key (KEK).**KeyEncryptionAlgorithm <KeyNcrptnAlgo>** contains the following **AlgorithmIdentification13** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		326
	Parameter <Param>	[0..1]			327
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327

15.1.3.17.2.3.1 Algorithm <Algo>*Presence:* [1..1]*Definition:* Identification of the algorithm.*Datatype:* "Algorithm13Code" on page 436

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) algorithm, as specified in ANSI X9.24-2009 Annex A.
UKPT	UKPT	UKPT (Unique Key Per Transaction) or Master Session Key key encryption - (ASN.1 Object Identifier: id-ukpt-wrap).
UKA1	UKPTwithAES128	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 -

CodeName	Name	Definition
		November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

15.1.3.17.2.3.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the encryption algorithm.

Parameter <Param> contains the following **Parameter6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327

15.1.3.17.2.3.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat1Code" on page 450

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.

15.1.3.17.2.3.2.2 InitialisationVector <InitlstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 432

15.1.3.17.2.3.2.3 BytePadding <BPddg>

Presence: [0..1]

Definition: Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

Datatype: "BytePadding1Code" on page 441

CodeName	Name	Definition
LNGT	LengthPadding	Message to encrypt is completed by a byte value containing the total number of added bytes.

CodeName	Name	Definition
NUL8	Null80Padding	Message to encrypt is completed by one bit of value 1, followed by null bits until the encryption block length is reached.
NULG	NullLengthPadding	Message to encrypt is completed by null byte values, the last byte containing the total number of added bytes.
NULL	NullPadding	Message to encrypt is completed by null bytes.
RAND	RandomPadding	Message to encrypt is completed by random value, the last byte containing the total number of added bytes.

15.1.3.17.2.4 EncryptedKey <NcrptdKey>

Presence: [1..1]

Definition: Encrypted key encryption key (KEK).

Datatype: "Max500Binary" on page 432

15.1.3.17.3 KeyIdentifier <Keyldr>

Presence: [1..1]

Definition: Identification of a protection key without a session key, shared and previously exchanged between the initiator and the recipient.

KeyIdentifier <Keyldr> contains the following elements (see "KEKIdentifier2" on page 208 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <Keyld>	[1..1]	Text		208
	KeyVersion <KeyVrsn>	[1..1]	Text		208
	SequenceNumber <SeqNb>	[0..1]	Quantity		209
	DerivationIdentification <Derivtnld>	[0..1]	Binary		209

15.1.3.18 AuthorisationResult7

Definition: Outcome of the authorisation.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthorisationEntity <AuthstnNtty>	[0..1]			329
	Identification <Id>	[0..1]	Text		329
	Type <Tp>	[1..1]	CodeSet		329
	Issuer <Issr>	[0..1]	CodeSet		330
	Country <Ctry>	[0..1]	Text		330
	ShortName <ShrtNm>	[0..1]	Text		330
	TransactionResponse <TxRspn>	[1..1]	±		331
	AuthorisationCode <AuthstnCd>	[0..1]	Text		331
	AdditionalInformation <AddtlInf>	[0..*]			331
	Destination <Dstn>	[1..1]	CodeSet		331
	Format <Frmt>	[0..1]	CodeSet		331
	Content <Cnnt>	[1..1]	Text		332

15.1.3.18.1 AuthorisationEntity <AuthstnNtty>

Presence: [0..1]

Definition: Type of party that has delivered or declined the card payment authorisation (the party is not identified).

AuthorisationEntity <AuthstnNtty> contains the following **GenericIdentification75** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		329
	Type <Tp>	[1..1]	CodeSet		329
	Issuer <Issr>	[0..1]	CodeSet		330
	Country <Ctry>	[0..1]	Text		330
	ShortName <ShrtNm>	[0..1]	Text		330

15.1.3.18.1.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the entity.

Datatype: "Max35Text" on page 471

15.1.3.18.1.2 Type <Tp>

Presence: [1..1]

Definition: Type of identified entity.

Datatype: "PartyType11Code" on page 456

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
ICCA	CardApplication	Application in the smart card.

15.1.3.18.1.3 Issuer <Issr>*Presence:* [0..1]*Definition:* Entity assigning the identification (for example merchant, acceptor, acquirer, or tax authority).*Datatype:* "PartyType9Code" on page 457

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ACQP	AcquirerProcessor	Entity providing acquiring card payment processing services on behalf on an acquirer.
CISS	CardIssuer	Party that issues cards.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
CSCH	CardScheme	Entity defining rules and procedures for card payment transactions acting as an intermediary between an acquirer and an issuer.
SCHP	CardSchemeProcessor	Entity providing card payment processing services acting on behalf of a card scheme.

15.1.3.18.1.4 Country <Ctry>*Presence:* [0..1]*Definition:* Country of the entity (ISO 3166-1 alpha-2 or alpha-3).*Datatype:* "Min2Max3AlphaText" on page 473**15.1.3.18.1.5 ShortName <ShrtNm>***Presence:* [0..1]*Definition:* Name of the entity.*Datatype:* "Max35Text" on page 471

15.1.3.18.2 TransactionResponse <TxRspn>

Presence: [1..1]

Definition: Response to an authorisation request.

TransactionResponse <TxRspn> contains the following elements (see ["ResponseType2"](#) on page 222 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Result <RsIt>	[1..1]	CodeSet		222
	ResultDetails <RsItDtls>	[0..1]	CodeSet		222
	AdditionalResultInformation <AddtlRsItInf>	[0..1]	Text		226

15.1.3.18.3 AuthorisationCode <AuthstnCd>

Presence: [0..1]

Definition: Value assigned by the authorising party.

Datatype: ["Min6Max8Text"](#) on page 473

15.1.3.18.4 AdditionalInformation <AddtlInf>

Presence: [0..*]

Definition: Additional information relevant for the destination.

AdditionalInformation <AddtlInf> contains the following **ActionMessage3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Destination <Dstn>	[1..1]	CodeSet		331
	Format <Frmt>	[0..1]	CodeSet		331
	Content <Cntt>	[1..1]	Text		332

15.1.3.18.4.1 Destination <Dstn>

Presence: [1..1]

Definition: Destination of the information.

Datatype: ["UserInterface3Code"](#) on page 465

CodeName	Name	Definition
ACQU	Acquirer	Acquirer.
AGNT	Agent	Agent.
ISSR	Issuer	Issuer.

15.1.3.18.4.2 Format <Frmt>

Presence: [0..1]

Definition: Format of the content.

Datatype: ["OutputFormat1Code"](#) on page 455

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

15.1.3.18.4.3 Content <Cntt>

Presence: [1..1]

Definition: Content of the information.

Datatype: "Max20000Text" on page 470

15.1.3.19 CardTransactionDetail1

Definition: Details of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionAmounts <TxAmts>	[1..1]			335
	TotalAmount <TtlAmt>	[1..1]	Amount		336
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		336
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			336
	Amount <Amt>	[1..1]	Amount		337
	ExchangeRate <XchgRate>	[1..1]	Rate		337
	QuotationDate <QtnDt>	[0..1]	DateTime		337
	Label <Lbl>	[0..1]	Text		337
	DetailedAmount <DtldAmt>	[0..*]			337
	Type <Tp>	[1..1]	CodeSet		338
	AdditionalType <AddtlTp>	[0..1]	Text		338
	Amount <Amt>	[1..1]	Amount		338
	Label <Lbl>	[0..1]	Text		338
	AdditionalAmounts <AddtlAmts>	[0..*]			339
	Type <Tp>	[1..1]	CodeSet		339
	AdditionalType <AddtlTp>	[0..1]	Text		340
	Amount <Amt>	[1..1]	Amount		340
	Label <Lbl>	[0..1]	Text		340
	MessageReason <MsgRsn>	[0..1]	CodeSet		340
	ValidityDate <VldtyDt>	[0..1]	Date		342
	UnattendedLevelCategory <UattnddLvCtgy>	[0..1]	Text		342
	AccountFrom <AcctFr>	[0..1]			342
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		343
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		344
	AccountName <AcctNm>	[0..1]	Text		344
	AccountOwner <AcctOwnr>	[0..1]			344
	Name <Nm>	[1..1]	Text		345
	Address <Adr>	[1..1]	±		345
	AccountIdentifier <AcctIdr>	[0..1]			345
{Or	Card <Card>	[1..1]	Text		346
Or	MSISDN <MSISDN>	[1..1]	Text		346

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or	EMail <EMail>	[1..1]	Text		346
Or	IBAN <IBAN>	[1..1]	IdentifierSet		346
Or	BBAN <BBAN>	[1..1]	IdentifierSet		346
Or	UPIC <UPIC>	[1..1]	IdentifierSet		347
Or	Domestic <Dmst>	[1..1]	Text		347
Or}	Other <Othr>	[1..1]	Text		347
	Servicer <Svcr>	[0..1]			347
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		347
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		347
	AccountTo <AcctTo>	[0..1]			348
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		348
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		349
	AccountName <AcctNm>	[0..1]	Text		350
	AccountOwner <AcctOwnr>	[0..1]			350
	Name <Nm>	[1..1]	Text		350
	Address <Adr>	[1..1]	±		350
	AccountIdentifier <AcctIdr>	[0..1]			350
{Or	Card <Card>	[1..1]	Text		351
Or	MSISDN <MSISDN>	[1..1]	Text		351
Or	EMail <EMail>	[1..1]	Text		351
Or	IBAN <IBAN>	[1..1]	IdentifierSet		351
Or	BBAN <BBAN>	[1..1]	IdentifierSet		351
Or	UPIC <UPIC>	[1..1]	IdentifierSet		352
Or	Domestic <Dmst>	[1..1]	Text		352
Or}	Other <Othr>	[1..1]	Text		352
	Servicer <Svcr>	[0..1]			352
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		352
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		352
	Instalment <Instlmt>	[0..1]	±		353
	AntiMoneyLaundering <AML>	[0..1]			353
	SenderName <SndrNm>	[0..1]	Text		354

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SenderAddress <SndrAdr>	[0..1]			354
	AddressLine <AdrLine>	[0..2]	Text		355
	StreetName <StrtNm>	[0..1]	Text		355
	BuildingNumber <BldgNb>	[0..1]	Text		355
	PostCode <PstCd>	[0..1]	Text		355
	TownName <TwnNm>	[1..1]	Text		355
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		355
	Country <Ctry>	[1..1]	CodeSet		356
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		356
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		356
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		356
	PassportIssuingCountry <PsptIssgCtry>	[0..1]	Text		356
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		356
	TaxCountry <TaxCtry>	[0..1]	Text		356
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		356
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		357
	ReceiverName <RcvrNm>	[0..1]	Text		357
	TransactionReference <TxRef>	[0..1]	Text		357
	ICCRelatedData <ICCRltdData>	[0..1]	Binary		357

15.1.3.19.1 TransactionAmounts <TxAmts>

Presence: [1..1]

Definition: Amounts of the transaction.

TransactionAmounts <TxAmts> contains the following **CardTransactionAmount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TotalAmount <TtlAmt>	[1..1]	Amount		336
	AmountQualifier <AmtQlfr>	[0..1]	CodeSet		336
	CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>	[0..1]			336
	Amount <Amt>	[1..1]	Amount		337
	ExchangeRate <XchgRate>	[1..1]	Rate		337
	QuotationDate <QtnDt>	[0..1]	DateTime		337
	Label <Labl>	[0..1]	Text		337
	DetailedAmount <DtlAmt>	[0..*]			337
	Type <Tp>	[1..1]	CodeSet		338
	AdditionalType <AddtlTp>	[0..1]	Text		338
	Amount <Amt>	[1..1]	Amount		338
	Label <Labl>	[0..1]	Text		338

15.1.3.19.1.1 TotalAmount <TtlAmt>

Presence: [1..1]

Definition: Total amount of the transaction expressed within the terminal currency.

It corresponds to ISO 8583 field number 4, completed by the field number 49 for the versions 87 and 93.

Datatype: "CurrencyAndAmount" on page 430

15.1.3.19.1.2 AmountQualifier <AmtQlfr>

Presence: [0..1]

Definition: Qualifies the amount of the transaction.

Datatype: "TypeOfAmount1Code" on page 463

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.

15.1.3.19.1.3 CardholderBillingTransactionAmount <CrdhldrBllgTxAmt>

Presence: [0..1]

Definition: Present when cardholder billing currency differs from transaction currency expressed in transaction amount. It may be populated by the scheme or intermediary processor as normally acceptor does not know cardholder billing currency.

CardholderBillingTransactionAmount <CrhdldrBllgTxAmt> contains the following **DetailedAmount8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		337
	ExchangeRate <XchgRate>	[1..1]	Rate		337
	QuotationDate <QtnDt>	[0..1]	DateTime		337
	Label <Lbl>	[0..1]	Text		337

15.1.3.19.1.3.1 Amount <Amt>

Presence: [1..1]

Definition: Amount after the currency exchange.

It corresponds to ISO 8583 field number 6, completed by the field number 51 for the versions 87 and 93.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.19.1.3.2 ExchangeRate <XchgRate>

Presence: [1..1]

Definition: Exchange rate to the currency of the amount.

It corresponds to ISO 8583 field number 10.

Datatype: "BaseOneRate" on page 469

15.1.3.19.1.3.3 QuotationDate <QtnDt>

Presence: [0..1]

Definition: Date and time at which the exchange rate has been quoted.

Datatype: "ISODateTime" on page 467

15.1.3.19.1.3.4 Label <Lbl>

Presence: [0..1]

Definition: Text to display on the cardholder or to print on the cardholder bank statement.

Datatype: "Max140Text" on page 470

15.1.3.19.1.4 DetailedAmount <DtldAmt>

Presence: [0..*]

Definition: Details of the transaction amount, for informational purpose, for instance to be included within cardholder statement.

It corresponds partially to ISO 8583 field number 54.

DetailedAmount <DtIdAmt> contains the following **DetailedAmount9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		338
	AdditionalType <AddtlTp>	[0..1]	Text		338
	Amount <Amt>	[1..1]	Amount		338
	Label <Labl>	[0..1]	Text		338

15.1.3.19.1.4.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount5Code" on page 464

CodeName	Name	Definition
CSHB	Cashback	Cash-back amount.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
GRTY	Gratuity	Gratuity amount.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMM	Commission	Commission, for example for DCC (Dynamic Currency Conversion) transactions.
DONN	Donation	Donation amount.
TAXT	Tax	Taxes applicable to the transaction.

15.1.3.19.1.4.2 AdditionalType <AddtlTp>

Presence: [0..1]

Definition: Additional information to specify the type of amount.

Datatype: "Max35Text" on page 471

15.1.3.19.1.4.3 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "ImpliedCurrencyAndAmount" on page 430

15.1.3.19.1.4.4 Label <Labl>

Presence: [0..1]

Definition: Short description of the amount to provide to the cardholder.

Datatype: "Max140Text" on page 470

15.1.3.19.2 AdditionalAmounts <AddtlAmts>

Presence: [0..*]

Definition: Additional amounts from the processor or the issuer without financial impacts on the transaction amount.

AdditionalAmounts <AddtlAmts> contains the following **DetailedAmount10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Type <Tp>	[1..1]	CodeSet		339
	AdditionalType <AddtlTp>	[0..1]	Text		340
	Amount <Amt>	[1..1]	Amount		340
	Label <Labl>	[0..1]	Text		340

15.1.3.19.2.1 Type <Tp>

Presence: [1..1]

Definition: Type or class of amount.

Datatype: "TypeOfAmount6Code" on page 464

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.

CodeName	Name	Definition
FEEI	IssuerFees	Fees amount from the card issuer.

15.1.3.19.2.2 AdditionalType <AddtlTp>*Presence:* [0..1]*Definition:* Additional information to specify the type of amount.*Datatype:* "Max35Text" on page 471**15.1.3.19.2.3 Amount <Amt>***Presence:* [1..1]*Definition:* Amount value.*Datatype:* "CurrencyAndAmount" on page 430**15.1.3.19.2.4 Label <Labl>***Presence:* [0..1]*Definition:* Short description of the amount to provide to the cardholder.*Datatype:* "Max35Text" on page 471**15.1.3.19.3 MessageReason <MsgRsn>***Presence:* [0..1]*Definition:* Reason to send an card acquirer to issuer message.

It corresponds to ISO 8583 field number 25 for the version 93, and field number 9 for the version 2003.

Datatype: "MessageReason1Code" on page 453

CodeName	Name	Definition
ASTD	AcquirerStandin	Stand-in processing at the acquirer's option.
AMNT	AmountInconsistency	Amount inconsistent between request and response.
ASPC	CardAcceptorSuspicious	Card acceptor forced to be online.
CDCL	CardDeclined	Integrated circuit card declines the transaction after the authorisation.
COFF	CardProcessed	Transaction performed offline by the card.
CRND	CardRandomSelection	Random online decided by the card.
CRTN	CardRetained	Card left by the cardholder.
CUNB	CardUnableToProcess	Card cannot process offline the transaction.
CCAN	CustomerCancel	Customer cancellation, for example removing the chip card after sending the authorisation, but before the end of the transaction.
KDAC	DeactivatedKey	Deactivated key must be replaced.

CodeName	Name	Definition
ERRP	ErrorInResponse	Response message was invalid (for example a problem of format or security).
FLRL	FloorLimit	Transaction above or under the floor limit.
IDPS	InconsistentDeposit	Inconsistency between the items deposited and their declared value.
KINV	InvalidVerification	Verification of the key has failed.
ISGN	IssuerSignedOff	Issuer signed off.
ISTD	IssuerStandin	Stand-in processing at the issuer's option.
ITIM	IssuerTimeout	Issuer timed out on request.
IUNV	IssuerUnavailable	Issuer unavailable.
ENDK	LifeCycleEnd	End of key life cycle.
MLFC	Malfunction	Suspected malfunction (for example card reader defect, or printer out of order).
FDCL	OfflineDeclined	Offline authorisation declined the transaction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
FORC	OnlineForced	Forced online by card acceptor, terminal, card, or the issuer.
KSYN	OutOfSynchronisation	Keys not synchronised.
UDSP	UncompleteDispense	Cardholder did not take the presented items.
USND	UnableToSend	Unable to send the message.
UCMP	UnableToComplete	Card acceptor device unable to complete transaction after the authorisation response (for example, the written signature invalid).
LATE	TooLateResponse	Response to the authorisation received too late.
TIMO	TimeOut	Waiting for response from the receiver, or no response was received (for example connection release before receiving the response).
TUNB	TerminalUnableToProcess	Terminal cannot process offline the transaction.
TRND	TerminalRandomSelection	Random online decided by the terminal.
TOFF	TerminalProcessed	Transaction performed offline by the terminal.
SUSP	SuspectedFraud	Card transaction failed because the merchant suspected a fraud.
KSEC	SecurityReason	Security reasons.

CodeName	Name	Definition
RUNV	ReceiverUnavailable	Receiver unavailable.
RTIM	ReceiverTimeout	Receiver timed out on request.
RSTD	ReceiverStandin	Stand-in processing at the receiver's option.
RSGN	ReceiverSignedOff	Receiver signed off.
PART	PartiallyCompleted	Partial reversal.

15.1.3.19.4 ValidityDate <VldtyDt>

Presence: [0..1]

Definition: Transaction authorisation deadline to complete the related payment.

It corresponds to ISO 8583, field number 57 for the version 93, and 3 for the version 2003.

Datatype: "ISODate" on page 466

15.1.3.19.5 UnattendedLevelCategory <UattnddLvICtgy>

Presence: [0..1]

Definition: Transaction category level on an unattended terminal.

Datatype: "Max35NumericText" on page 471

15.1.3.19.6 AccountFrom <AcctFr>

Presence: [0..1]

Definition: Way to identify a customer account or a relationship to its account affected for debits, inquiries and the "from" account for transfers.

AccountFrom <AcctFr> contains the following **CardAccount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		343
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		344
	AccountName <AcctNm>	[0..1]	Text		344
	AccountOwner <AcctOwnr>	[0..1]			344
	Name <Nm>	[1..1]	Text		345
	Address <Adr>	[1..1]	±		345
	AccountIdentifier <AcctIdr>	[0..1]			345
{Or	Card <Card>	[1..1]	Text		346
Or	MSISDN <MSISDN>	[1..1]	Text		346
Or	EMail <EMail>	[1..1]	Text		346
Or	IBAN <IBAN>	[1..1]	IdentifierSet		346
Or	BBAN <BBAN>	[1..1]	IdentifierSet		346
Or	UPIC <UPIC>	[1..1]	IdentifierSet		347
Or	Domestic <Dmst>	[1..1]	Text		347
Or}	Other <Othr>	[1..1]	Text		347
	Servicer <Svcr>	[0..1]			347
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		347
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		347

15.1.3.19.6.1 SelectionMethod <SelctnMtd>

Presence: [0..1]

Definition: Method used by the cardholder and the terminal for the choice of the account.

Datatype: "AccountChoiceMethod1Code" on page 432

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

15.1.3.19.6.2 SelectedAccountType <SelctdAcctTp>*Presence:* [0..1]*Definition:* Type of cardholder account used for the transaction.*Datatype:* "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.

15.1.3.19.6.3 AccountName <AcctNm>*Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.

Usage: The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.

Datatype: "Max70Text" on page 473**15.1.3.19.6.4 AccountOwner <AcctOwnr>***Presence:* [0..1]*Definition:* Party that legally owns the account.

AccountOwner <AcctOwnr> contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		345
	Address <Adr>	[1..1]	±		345

15.1.3.19.6.4.1 Name <Nm>

Presence: [1..1]

Definition: Name by which a party is known and is usually used to identify that identity.

Datatype: "Max70Text" on page 473

15.1.3.19.6.4.2 Address <Adr>

Presence: [1..1]

Definition: Postal address of a party.

Address <Adr> contains the following elements (see "[PostalAddress1](#)" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.19.6.5 AccountIdentifier <AcctIdr>

Presence: [0..1]

Definition: Unique identifier of the account, as assigned by the account servicer.

AccountIdentifier <AcctIdr> contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		346
Or	MSISDN <MSISDN>	[1..1]	Text		346
Or	EMail <EMail>	[1..1]	Text		346
Or	IBAN <IBAN>	[1..1]	IdentifierSet		346
Or	BBAN <BBAN>	[1..1]	IdentifierSet		346
Or	UPIC <UPIC>	[1..1]	IdentifierSet		347
Or	Domestic <Dmst>	[1..1]	Text		347
Or}	Other <Othr>	[1..1]	Text		347

15.1.3.19.6.5.1 Card <Card>

Presence: [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.19.6.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.19.6.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.19.6.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.19.6.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.19.6.5.6 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: "UPICIIdentifier" on page 468

15.1.3.19.6.5.7 Domestic <Dmst>

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.

Datatype: "Max35Text" on page 471

15.1.3.19.6.5.8 Other <Othr>

Presence: [1..1]

Definition: Other identifier.

Datatype: "Max35Text" on page 471

15.1.3.19.6.6 Servicer <Svcr>

Presence: [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		347
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		347

15.1.3.19.6.6.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIIdentifier" on page 467

15.1.3.19.6.6.2 ProprietaryIdentification <PrtryId>

Presence: [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "GenericIdentification1" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.19.7 AccountTo <AcctTo>

Presence: [0..1]

Definition: Way to identify a customer account or a relationship to its account affected for credits and the "to" account for transfers.

AccountTo <AcctTo> contains the following **CardAccount1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SelectionMethod <SelctnMtd>	[0..1]	CodeSet		348
	SelectedAccountType <SelctdAcctTp>	[0..1]	CodeSet		349
	AccountName <AcctNm>	[0..1]	Text		350
	AccountOwner <AcctOwnr>	[0..1]			350
	Name <Nm>	[1..1]	Text		350
	Address <Adr>	[1..1]	±		350
	AccountIdentifier <Acctldr>	[0..1]			350
{Or	Card <Card>	[1..1]	Text		351
Or	MSISDN <MSISDN>	[1..1]	Text		351
Or	EEmail <EMail>	[1..1]	Text		351
Or	IBAN <IBAN>	[1..1]	IdentifierSet		351
Or	BBAN <BBAN>	[1..1]	IdentifierSet		351
Or	UPIC <UPIC>	[1..1]	IdentifierSet		352
Or	Domestic <Dmst>	[1..1]	Text		352
Or}	Other <Othr>	[1..1]	Text		352
	Servicer <Svcr>	[0..1]			352
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		352
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		352

15.1.3.19.7.1 SelectionMethod <SelctnMtd>

Presence: [0..1]

Definition: Method used by the cardholder and the terminal for the choice of the account.

Datatype: "AccountChoiceMethod1Code" on page 432

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

15.1.3.19.7.2 SelectedAccountType <SelctdAcctTp>

Presence: [0..1]

Definition: Type of cardholder account used for the transaction.

Datatype: "CardAccountType2Code" on page 441

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UURL	Universal	Universal account.

15.1.3.19.7.3 AccountName <AcctNm>*Presence:* [0..1]*Definition:* Name of the account, as assigned by the account servicing institution, in agreement with the account owner in order to provide an additional means of identification of the account.*Usage:* The account name is different from the account owner name. The account name is used in certain user communities to provide a means of identifying the account, in addition to the account owner's identity and the account number.*Datatype:* "Max70Text" on page 473**15.1.3.19.7.4 AccountOwner <AcctOwnr>***Presence:* [0..1]*Definition:* Party that legally owns the account.**AccountOwner <AcctOwnr>** contains the following **NameAndAddress3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Name <Nm>	[1..1]	Text		350
	Address <Adr>	[1..1]	±		350

15.1.3.19.7.4.1 Name <Nm>*Presence:* [1..1]*Definition:* Name by which a party is known and is usually used to identify that identity.*Datatype:* "Max70Text" on page 473**15.1.3.19.7.4.2 Address <Adr>***Presence:* [1..1]*Definition:* Postal address of a party.**Address <Adr>** contains the following elements (see "PostalAddress1" on page 426 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.3.19.7.5 AccountIdentifier <AcctIdr>*Presence:* [0..1]

Definition: Unique identifier of the account, as assigned by the account servicer.

AccountIdentifier <AcctIdr> contains one of the following **AccountIdentification30Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	Card <Card>	[1..1]	Text		351
Or	MSISDN <MSISDN>	[1..1]	Text		351
Or	EMail <EMail>	[1..1]	Text		351
Or	IBAN <IBAN>	[1..1]	IdentifierSet		351
Or	BBAN <BBAN>	[1..1]	IdentifierSet		351
Or	UPIC <UPIC>	[1..1]	IdentifierSet		352
Or	Domestic <Dmst>	[1..1]	Text		352
Or}	Other <Othr>	[1..1]	Text		352

15.1.3.19.7.5.1 Card <Card>

Presence: [1..1]

Definition: PAN of the card identifying the account.

Datatype: "Min8Max28NumericText" on page 474

15.1.3.19.7.5.2 MSISDN <MSISDN>

Presence: [1..1]

Definition: Mobile Subscriber Integrated Service Digital Network (i.e. mobile phone number of the SIM card).

Datatype: "Max16Text" on page 470

15.1.3.19.7.5.3 EMail <EMail>

Presence: [1..1]

Definition: E-mail identifying the account.

Datatype: "Max35Text" on page 471

15.1.3.19.7.5.4 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.

Datatype: "IBANIdentifier" on page 468

15.1.3.19.7.5.5 BBAN <BBAN>

Presence: [1..1]

Definition: Basic Bank Account Number (BBAN) - identifier used nationally by financial institutions, that is, 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 467

15.1.3.19.7.5.6 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 468

15.1.3.19.7.5.7 Domestic <Dmst>

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.

Datatype: "Max35Text" on page 471

15.1.3.19.7.5.8 Other <Othr>

Presence: [1..1]

Definition: Other identifier.

Datatype: "Max35Text" on page 471

15.1.3.19.7.6 Servicer <Svcr>

Presence: [0..1]

Definition: Party that manages the account on behalf of the account owner, that is manages the registration and booking of entries on the account, calculates balances on the account and provides information about the account.

Servicer <Svcr> contains one of the following **PartyIdentification72Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	AnyBIC <AnyBIC>	[1..1]	IdentifierSet		352
Or}	ProprietaryIdentification <PrtryId>	[1..1]	±		352

15.1.3.19.7.6.1 AnyBIC <AnyBIC>

Presence: [1..1]

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Datatype: "AnyBICIdentifier" on page 467

15.1.3.19.7.6.2 ProprietaryIdentification <PrtryId>

Presence: [1..1]

Definition: Unique and unambiguous identifier, as assigned to a financial institution using a proprietary identification scheme.

ProprietaryIdentification <PrtryId> contains the following elements (see "[GenericIdentification1](#)" on page 200 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		201
	SchemeName <SchmeNm>	[0..1]	Text		201
	Issuer <Issr>	[0..1]	Text		201

15.1.3.19.8 Instalment <Instlmt>

Presence: [0..1]

Definition: Data related to a financial loan (instalment) or to a recurring transaction.

Instalment <Instlmt> contains the following elements (see "[RecurringTransaction2](#)" on page 206 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	InstalmentPlan <InstlmtPlan>	[0..*]	CodeSet		206
	PlanIdentification <PlanId>	[0..1]	Text		207
	SequenceNumber <SeqNb>	[0..1]	Quantity		207
	PeriodUnit <PrdUnit>	[0..1]	CodeSet		207
	InstalmentPeriod <InstlmtPrd>	[0..1]	Quantity		207
	TotalNumberOfPayments <TtlNbOfPmts>	[0..1]	Quantity		207
	FirstPaymentDate <FrstPmtDt>	[0..1]	Date		208
	TotalAmount <TtlAmt>	[0..1]	Amount		208
	FirstAmount <FrstAmt>	[0..1]	Amount		208
	Charges <Chrgs>	[0..1]	Amount		208

15.1.3.19.9 AntiMoneyLaundering <AML>

Presence: [0..1]

Definition: Information requested against money laundering for a transfer transaction.

AntiMoneyLaundering <AML> contains the following **AntiMoneyLaundering1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SenderName <SndrNm>	[0..1]	Text		354
	SenderAddress <SndrAdr>	[0..1]			354
	AddressLine <AdrLine>	[0..2]	Text		355
	StreetName <StrtNm>	[0..1]	Text		355
	BuildingNumber <BldgNb>	[0..1]	Text		355
	PostCode <PstCd>	[0..1]	Text		355
	TownName <TwnNm>	[1..1]	Text		355
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		355
	Country <Ctry>	[1..1]	CodeSet		356
	SenderNationalIdentifier <SndrNtlldr>	[0..1]	Text		356
	NationalIdentifierCountry <NtlldrCtry>	[0..1]	Text		356
	SenderPassportNumber <SndrPsptNb>	[0..1]	Text		356
	PassportIssuingCountry <PsptlssgCtry>	[0..1]	Text		356
	SenderTaxIdentifier <SndrTaxldr>	[0..1]	Text		356
	TaxCountry <TaxCtry>	[0..1]	Text		356
	SenderCustomerIdentifier <SndrCstmrlldr>	[0..1]	Text		356
	SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>	[0..1]	±		357
	ReceiverName <RcvrNm>	[0..1]	Text		357
	TransactionReference <TxRef>	[0..1]	Text		357

15.1.3.19.9.1 SenderName <SndrNm>

Presence: [0..1]

Definition: Name of the sender.

Datatype: "Max70Text" on page 473

15.1.3.19.9.2 SenderAddress <SndrAdr>

Presence: [0..1]

Definition: Address of the sender.

SenderAddress <SndrAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		355
	StreetName <StrtNm>	[0..1]	Text		355
	BuildingNumber <BldgNb>	[0..1]	Text		355
	PostCode <PstCd>	[0..1]	Text		355
	TownName <TwnNm>	[1..1]	Text		355
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		355
	Country <Ctry>	[1..1]	CodeSet		356

15.1.3.19.9.2.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.3.19.9.2.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.3.19.9.2.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.3.19.9.2.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.3.19.9.2.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.3.19.9.2.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.3.19.9.2.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.3.19.9.3 SenderNationalIdentifier <SndrNtlldr>

Presence: [0..1]

Definition: National identifier number of the sender.

Datatype: "Max35Text" on page 471

15.1.3.19.9.4 NationalIdentifierCountry <NtlldrCtry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.19.9.5 SenderPassportNumber <SndrPsptNb>

Presence: [0..1]

Definition: Passport number of the sender.

Datatype: "Max35Text" on page 471

15.1.3.19.9.6 PassportIssuingCountry <PsptlssgCtry>

Presence: [0..1]

Definition: Country issuing the passport (ISO 3166-1 alpha-2 or alpha-3).

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.19.9.7 SenderTaxIdentifier <SndrTaxldr>

Presence: [0..1]

Definition: Tax identifier of the sender.

Datatype: "Max35Text" on page 471

15.1.3.19.9.8 TaxCountry <TaxCtry>

Presence: [0..1]

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

Datatype: "Min2Max3AlphaText" on page 473

15.1.3.19.9.9 SenderCustomerIdentifier <SndrCstmrlldr>

Presence: [0..1]

Definition: Customer identifier of the sender.

Datatype: "Max35Text" on page 471

15.1.3.19.9.10 SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth>*Presence:* [0..1]*Definition:* Date and place of birth of the sender.

SenderDateAndPlaceOfBirth <SndrDtAndPlcOfBirth> contains the following elements (see "DateAndPlaceOfBirth" on page 425 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		425
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		425
	CityOfBirth <CityOfBirth>	[1..1]	Text		425
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet		426

15.1.3.19.9.11 ReceiverName <RcvrNm>*Presence:* [0..1]*Definition:* Name of the receiver.*Datatype:* "Max70Text" on page 473**15.1.3.19.9.12 TransactionReference <TxRef>***Presence:* [0..1]*Definition:* Unique transaction reference number for sender and the receiver.*Datatype:* "Max35Text" on page 471**15.1.3.19.10 ICCRelatedData <ICCRltdData>***Presence:* [0..1]*Definition:* Data related to an integrated circuit card application.

It corresponds to ISO 8583, field number 55 for the versions 93 and 2003.

Datatype: "Max10000Binary" on page 431**15.1.3.20 CardTransaction3***Definition:* Identification of the original transaction.

It corresponds to ISO 8583, field number 90 for the version 87, and 56 for the other versions.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AcceptorTransactionDateTime <AccptrTxDtTm>	[1..1]	DateTime		357
	InitiatorTransactionIdentification <InitrTxId>	[1..1]	Text		358
	InitiatorIdentification <InitrId>	[1..1]	Text		358

15.1.3.20.1 AcceptorTransactionDateTime <AccptrTxDtTm>*Presence:* [1..1]

Definition: Date and time of the transaction transported unchanged by the acquirer from the card acceptor to the issuer. Corresponds to the CAPE data element TransactionIdentification/TransactionDateTime.

It correspond to the ISO 8583 field number 12.

Datatype: "ISODateTime" on page 467

15.1.3.20.2 InitiatorTransactionIdentification <InitrTxId>

Presence: [1..1]

Definition: Number generated by the transaction of the original transaction.

Datatype: "Max35Text" on page 471

15.1.3.20.3 InitiatorIdentification <InitrId>

Presence: [1..1]

Definition: Identification of the entity, initiator of the transaction.

Datatype: "Max35Text" on page 471

15.1.3.21 TransactionIdentifier2

Definition: Identification of the reconciliation period between the acquirer and the issuer or their respective agents.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ReconciliationDate <RcncltnDt>	[1..1]	Date		358
	ReconciliationIdentification <RcncltnId>	[0..1]	Text		358

15.1.3.21.1 ReconciliationDate <RcncltnDt>

Presence: [1..1]

Definition: Date of the reconciliation.

It correspond to the ISO 8583 field number 28 for the versions 1993 and 2003.

Datatype: "ISODate" on page 466

15.1.3.21.2 ReconciliationIdentification <RcncltnId>

Presence: [0..1]

Definition: Identification of the reconciliation.

It correspond to the ISO 8583 field number 29 for the versions 1993 and 2003.

Datatype: "Max35Text" on page 471

15.1.3.22 CardTransactionContext2

Definition: Context of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardPresent <CardPres>	[0..1]	Indicator		359
	CardholderPresent <CrdhldrPres>	[0..1]	Indicator		359
	LocationCategory <LctnCtgy>	[0..1]	CodeSet		360
	AttendanceContext <AttdncCntxt>	[0..1]	CodeSet		360
	TransactionEnvironment <TxEnv<	[0..1]	CodeSet		360
	HostingCategory <HstgCtgy>	[0..1]	CodeSet		360
	TransactionChannel <TxChan<	[0..1]	CodeSet		361
	CardDataEntryMode <CardDataNtryMd>	[1..1]	CodeSet		361
	FallbackIndicator <FlbckInd>	[0..1]	CodeSet		362
	SupportedOption <SpprtdOptn>	[0..*]	CodeSet		362
	SpecialConditions <SpclConds>	[0..*]			362
	Program <Prgm>	[1..1]	Text		363
	Value <Val>	[0..1]	Text		363
	RiskIndicator <RskInd>	[0..*]			363
	Reason <Rsn>	[0..*]	CodeSet		363
	Level <Lv>	[1..1]	Quantity		364
	RecommendedAction <RcmmnddActn>	[0..*]	CodeSet		364

15.1.3.22.1 CardPresent <CardPres>

Presence: [0..1]

Definition: Indicates whether the transaction has been initiated by a card physically present or not.

It correspond to the ISO 8583:1993 field number 22-6.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 468):

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

15.1.3.22.2 CardholderPresent <CrdhldrPres>

Presence: [0..1]

Definition: Indicates whether the transaction has been initiated in presence of the cardholder or not.

It correspond to the ISO 8583:1993 field number 22-5.

Datatype: One of the following values must be used (see ["TrueFalseIndicator"](#) on page 468):

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

15.1.3.22.3 LocationCategory <LctnCtgy>*Presence:* [0..1]*Definition:* Location category of the place where the transaction is actually performed.

It correspond partially to the ISO 8583:1993 field number 22-4.

Datatype: "LocationCategory2Code" on page 452

CodeName	Name	Definition
ABRD	Aboard	Aboard a bus, train, ship, airplane, taxi, etc.
FIXD	Fixed	Fixed location, for example in a shop.
HOME	Home	Customer home.
NMDC	Nomadic	Nomadic location.

15.1.3.22.4 AttendanceContext <AtndncCntxt>*Presence:* [0..1]*Definition:* Human attendance at the terminal location during the transaction.

It correspond partially to the ISO 8583:1993 field number 22-4.

Datatype: "AttendanceContext1Code" on page 438

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.

15.1.3.22.5 TransactionEnvironment <TxEnv>*Presence:* [0..1]*Definition:* Indicates the environment of the transaction.*Datatype:* "TransactionEnvironment2Code" on page 463

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

15.1.3.22.6 HostingCategory <HstgCtgy>*Presence:* [0..1]*Definition:* Indicates the entity hosting the terminal performing the transaction.

It correspond partially to the ISO 8583:1993 field number 22-4.

Datatype: "TransactionEnvironment3Code" on page 463

CodeName	Name	Definition
BRCH	Branch	Bank environment.
MERC	Merchant	Merchant environment.
OTHR	Other	Other environments, for instance a mall or an airport.

15.1.3.22.7 TransactionChannel <TxChanI>

Presence: [0..1]

Definition: Identifies the type of the communication channels used by the cardholder to the acceptor system.

It correspond to the ISO 8583:1993 field number 22-5.

Datatype: "TransactionChannel3Code" on page 463

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.

15.1.3.22.8 CardDataEntryMode <CardDataNtryMd>

Presence: [1..1]

Definition: Entry mode of the card data.

It correspond to the ISO 8583 field number 25 for the version 87 (partially), field number 22-7 for the version 93, and field number 22-1 for the version 2003.

Datatype: "CardDataReading2Code" on page 442

CodeName	Name	Definition
DFLE	AccountData	Account data on file.
BRCD	BarCode	Bar code.
CDFL	CardOnFile	Card information are stored on a file.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.

CodeName	Name	Definition
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.
CTLS	ProximityReader	Contactless proximity reader.
TAGC	Tag	Tag reading capabilities (RFID, etc.).
UNKW	Unknown	Unknown card reading capability.

15.1.3.22.9 FallbackIndicator <FllbckInd>

Presence: [0..1]

Definition: Indicator of a card entry mode fall-back. It correspond to the ISO 8583:2003 field number 22-1.

Datatype: "CardFallback1Code" on page 443

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.

15.1.3.22.10 SupportedOption <SpprtdOptn>

Presence: [0..*]

Definition: Payment options the card acceptor can support.

Datatype: "SupportedPaymentOption1Code" on page 462

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).

15.1.3.22.11 SpecialConditions <SpclConds>

Presence: [0..*]

Definition: Data used to assign specific condition such as liability shift or preferential interchange fees.

SpecialConditions <SpclConds> contains the following **CardTransactionCondition1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Program <Prgm>	[1..1]	Text		363
	Value <Val>	[0..1]	Text		363

15.1.3.22.11.1 Program <Prgm>

Presence: [1..1]

Definition: Identification of the specific condition.

Datatype: "Max35Text" on page 471

15.1.3.22.11.2 Value <Val>

Presence: [0..1]

Definition: Level of the condition.

Datatype: "Max35Text" on page 471

15.1.3.22.12 RiskIndicator <RskInd>

Presence: [0..*]

Definition: Indicates to the issuer the level of risk of the transaction.

RiskIndicator <RskInd> contains the following **CardTransactionRiskIndicator1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Reason <Rsn>	[0..*]	CodeSet		363
	Level <Lvl>	[1..1]	Quantity		364
	RecommendedAction <RcmmnddActn>	[0..*]	CodeSet		364

15.1.3.22.12.1 Reason <Rsn>

Presence: [0..*]

Definition: Reason to indicate a certain level of risk for the transaction.

Datatype: "CardTransactionRiskReason1Code" on page 447

CodeName	Name	Definition
APDP	ApproveDeclinePattern	Suspicious approve or decline pattern.
APDL	ApproveDeclineSequence	Suspicious sequence of approve and decline messages.
ATHA	AuthorizationActivity	Suspicious authorization activity.
CRDC	CompromisedCard	Compromised card.
ECMA	EcommerceActivity	Suspicious electronic commerce activity.
EXCD	ExpiryDateMismatch	Expiry date mismatch.
FGNA	ForeignActivity	Suspicious foreign activity.

CodeName	Name	Definition
GEOA	GeographicActivity	Suspicious geographic activity.
MCCH	HighRiskMCC	High Risk MCC (Merchant Category Code).
KEYA	ManualEntryActivity	Suspicious manual card data entry mode.
MCCA	MerchantCategoryActivity	Suspicious MCC (Merchant Category Code) activity.
AMNT	SuspiciousAmount	Suspicious amount.
CRDF	SuspiciousFraudulentCardholder	Suspicious fraudulent cardholder.
MRCF	SuspiciousFraudulentMerchant	Suspicious fraudulent merchant.
TXCA	TransactionCumulativeAmount	Suspicious transaction cumulated amount at merchant.
TXNB	TransactionNumber	Suspicious transaction number at merchant.
TXTM	TransactionTime	Suspicious transaction time.
TMIN	TransactionTimeInterval	Suspicious transaction time interval.
TXTP	TransactionType	Suspicious transaction type.
UATA	UnattendedActivity	Suspicious unattended terminal activity.

15.1.3.22.12.2 Level <Lvl>*Presence:* [1..1]*Definition:* Level of risk, from 1 to 99.*Datatype:* "Number" on page 469**15.1.3.22.12.3 RecommendedAction <RcmnddActn>***Presence:* [0..*]*Definition:* Recommended action for the issuer.*Datatype:* "ActionType4Code" on page 433

CodeName	Name	Definition
CPTR	CaptureCard	Capture the card.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
RFRL	Referral	Referral has to be performed.
APPV	Approve	Approve the transaction.
BLCK	BlockCard	Block the card.
NDCL	NoReasonForDecline	No reason for declining the transaction.

15.1.3.23 Cardholder9*Definition:* Data related to the cardholder.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	±		366
	Name <Nm>	[0..1]	Text		366
	Language <Lang>	[0..1]	CodeSet		366
	BillingAddress <BllgAdr>	[0..1]			367
	AddressLine <AdrLine>	[0..2]	Text		367
	StreetName <StrtNm>	[0..1]	Text		367
	BuildingNumber <BldgNb>	[0..1]	Text		367
	PostCode <PstCd>	[0..1]	Text		367
	TownName <TwnNm>	[1..1]	Text		367
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		368
	Country <Ctry>	[1..1]	CodeSet		368
	ShippingAddress <ShppgAdr>	[0..1]			368
	AddressLine <AdrLine>	[0..2]	Text		368
	StreetName <StrtNm>	[0..1]	Text		368
	BuildingNumber <BldgNb>	[0..1]	Text		368
	PostCode <PstCd>	[0..1]	Text		369
	TownName <TwnNm>	[1..1]	Text		369
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		369
	Country <Ctry>	[1..1]	CodeSet		369
	Authentication <Authntcn>	[0..*]			369
	AuthenticationMethod <AuthntcnMtd>	[1..1]	CodeSet		370
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		371
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		371
	CardholderOnLinePIN <CrdhldrOnLinePIN>	[0..1]			371
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		371
	PINFormat <PINFrmt>	[1..1]	CodeSet		372
	AdditionalInput <AddtlInpt>	[0..1]	Text		372
	CardholderIdentification <CrdhldrId>	[0..1]	±		372
	AddressVerification <AdrVrfctn>	[0..1]			373
	AddressDigits <AdrDgts>	[0..1]	Text		373
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		373

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TransactionVerificationResult <TxVrfctnRsIt>	[0..*]			373
	Method <Mtd>	[1..1]	CodeSet		374
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		375
	Result <RsIt>	[0..1]	CodeSet		375
	AdditionalResult <AddtlRsIt>	[0..1]	Text		375
	PersonalData <PrsnlData>	[0..1]	Text		376

15.1.3.23.1 Identification <Id>

Presence: [0..1]

Definition: Identification of the cardholder involved in a transaction.

Identification <Id> contains the following elements (see "PersonIdentification7" on page 423 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriversLicenseNumber <DrvrLicNb>	[0..1]	Text		423
	CustomerNumber <CstmrNb>	[0..1]	Text		423
	SocialSecurityNumber <SciSctyNb>	[0..1]	Text		423
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		424
	PassportNumber <PsptNb>	[0..1]	Text		424
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		424
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		424
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		424
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		424
	EmailAddress <EmailAdr>	[0..1]	Text		424
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]	±		424
	Other <Othr>	[0..*]	±		425

15.1.3.23.2 Name <Nm>

Presence: [0..1]

Definition: Cardholder name associated with the card.

Datatype: "Max45Text" on page 472

15.1.3.23.3 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).

Datatype: "LanguageCode" on page 451

15.1.3.23.4 BillingAddress <BllgAdr>

Presence: [0..1]

Definition: Postal address of the owner of the payment card.

BillingAddress <BllgAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		367
	StreetName <StrtNm>	[0..1]	Text		367
	BuildingNumber <BldgNb>	[0..1]	Text		367
	PostCode <PstCd>	[0..1]	Text		367
	TownName <TwnNm>	[1..1]	Text		367
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		368
	Country <Ctry>	[1..1]	CodeSet		368

15.1.3.23.4.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.3.23.4.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.3.23.4.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.3.23.4.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.3.23.4.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.3.23.4.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.3.23.4.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.3.23.5 ShippingAddress <ShppgAdr>

Presence: [0..1]

Definition: Postal address for delivery of goods or services.

ShippingAddress <ShppgAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		368
	StreetName <StrtNm>	[0..1]	Text		368
	BuildingNumber <BldgNb>	[0..1]	Text		368
	PostCode <PstCd>	[0..1]	Text		369
	TownName <TwnNm>	[1..1]	Text		369
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		369
	Country <Ctry>	[1..1]	CodeSet		369

15.1.3.23.5.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.3.23.5.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.3.23.5.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.3.23.5.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.3.23.5.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.3.23.5.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.3.23.5.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.3.23.6 Authentication <Authntcn>

Presence: [0..*]

Definition: Method and data intended to be used for this transaction to authenticate the cardholder and its card.

Authentication <Authntcn> contains the following **CardholderAuthentication7** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AuthenticationMethod <AuthntcnMtd>	[1..1]	CodeSet		370
	AuthenticationValue <AuthntcnVal>	[0..1]	Binary		371
	ProtectedAuthenticationValue <PrctcdAuthntcnVal>	[0..1]	±		371
	CardholderOnLinePIN <CrhdldrOnLinePIN>	[0..1]			371
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		371
	PINFormat <PINFrmt>	[1..1]	CodeSet		372
	AdditionalInput <AddtlInpt>	[0..1]	Text		372
	CardholderIdentification <CrhdldrId>	[0..1]	±		372
	AddressVerification <AdrVrfctn>	[0..1]			373
	AddressDigits <AdrDgts>	[0..1]	Text		373
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		373

15.1.3.23.6.1 AuthenticationMethod <AuthntcnMtd>

Presence: [1..1]

Definition: Method and data intended to be used for this transaction to authenticate the cardholder or its card.

Datatype: "AuthenticationMethod5Code" on page 439

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

CodeName	Name	Definition
		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.
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

15.1.3.23.6.2 AuthenticationValue <AuthntcnVal>

Presence: [0..1]

Definition: Value used to authenticate the cardholder.

Datatype: "Max5000Binary" on page 432

15.1.3.23.6.3 ProtectedAuthenticationValue <PrctcdAuthntcnVal>

Presence: [0..1]

Definition: Protection of the authentication value.

ProtectedAuthenticationValue <PrctcdAuthntcnVal> contains the following elements (see "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.3.23.6.4 CardholderOnLinePIN <CrdhldrOnLinePIN>

Presence: [0..1]

Definition: Encrypted personal identification number (PIN) and related information.

CardholderOnLinePIN <CrdhldrOnLinePIN> contains the following **OnLinePIN4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptedPINBlock <NcrptdPINBlck>	[1..1]	±		371
	PINFormat <PINFrmt>	[1..1]	CodeSet		372
	AdditionalInput <AddtlInpt>	[0..1]	Text		372

15.1.3.23.6.4.1 EncryptedPINBlock <NcrptdPINBlck>

Presence: [1..1]

Definition: Encrypted PIN (Personal Identification Number).

EncryptedPINBlock <NcrptdPINBlck> contains the following elements (see "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.3.23.6.4.2 PINFormat <PINFrmt>

Presence: [1..1]

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

Datatype: "PINFormat3Code" on page 458

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.

15.1.3.23.6.4.3 AdditionalInput <AddtlInpt>

Presence: [0..1]

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

Datatype: "Max35Text" on page 471

15.1.3.23.6.5 CardholderIdentification <CrhdldrId>

Presence: [0..1]

Definition: Identification of the cardholder to verify.

CardholderIdentification <CrhdIdrld> contains the following elements (see "PersonIdentification7" on page 423 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriversLicenseNumber <DrvrsLicNb>	[0..1]	Text		423
	CustomerNumber <CstmrNb>	[0..1]	Text		423
	SocialSecurityNumber <ScIScItyNb>	[0..1]	Text		423
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		424
	PassportNumber <PsptNb>	[0..1]	Text		424
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		424
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		424
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		424
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		424
	EmailAddress <EmailAdr>	[0..1]	Text		424
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]	±		424
	Other <Othr>	[0..*]	±		425

15.1.3.23.6.6 AddressVerification <AdrVrfctn>

Presence: [0..1]

Definition: Numeric characters of the cardholder's billing or shipping address for verification.

AddressVerification <AdrVrfctn> contains the following **AddressVerification1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressDigits <AdrDgts>	[0..1]	Text		373
	PostalCodeDigits <PstlCdDgts>	[0..1]	Text		373

15.1.3.23.6.6.1 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 472

15.1.3.23.6.6.2 PostalCodeDigits <PstlCdDgts>

Presence: [0..1]

Definition: Numeric characters from the cardholder's postal code.

Datatype: "Max5NumericText" on page 472

15.1.3.23.7 TransactionVerificationResult <TxVrfctnRsIt>

Presence: [0..*]

Definition: Result of performed verifications for the transaction.

TransactionVerificationResult <TxVrfctnRsIt> contains the following **TransactionVerificationResult4** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Method <Mtd>	[1..1]	CodeSet		374
	VerificationEntity <VrfctnNtty>	[0..1]	CodeSet		375
	Result <RsIt>	[0..1]	CodeSet		375
	AdditionalResult <AddtlRsIt>	[0..1]	Text		375

15.1.3.23.7.1 Method <Mtd>

Presence: [1..1]

Definition: Method of verification that has been performed.

Datatype: "AuthenticationMethod6Code" on page 440

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
ADDB	BillingAddressVerification	Cardholder billing address verification.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.
CRYP	CryptogramVerification	Verification of a cryptogram generated by a chip card or another device, for instance ARQC (Authorisation Request Cryptogram).
CSCV	CSCVerification	Verification of Card Security Code.
PSVE	PassiveAuthentication	Authentication based on statistical cardholder behaviour.
CSEC	SecureElectronicCommerce	Authentication performed during a secure electronic commerce transaction.
ADDS	ShippingAddressVerification	Cardholder shipping address verification.

CodeName	Name	Definition
MANU	ManualVerification	Manual verification, for example passport or drivers license.
FPIN	OfflinePIN	Off-line PIN authentication (Personal Identification Number).
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

15.1.3.23.7.2 VerificationEntity <VrfctnNtty>

Presence: [0..1]

Definition: Entity or device that has performed the verification.

Datatype: "AuthenticationEntity2Code" on page 439

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.

15.1.3.23.7.3 Result <Rslt>

Presence: [0..1]

Definition: Result of the verification.

Datatype: "Verification1Code" on page 466

CodeName	Name	Definition
FAIL	Failed	Verification failed.
MISS	Missing	Information required to perform the verification was missing.
NOVF	NotPerformed	Verification has not been performed.
PART	PartialMatch	Verification was partially successful.
SUCC	Successful	Verification was successful.
ERRR	TechnicalError	Device or entity to perform the verification was unavailable.

15.1.3.23.7.4 AdditionalResult <AddtlRslt>

Presence: [0..1]

Definition: Additional result of the verification.

Datatype: "Max500Text" on page 472

15.1.3.23.8 PersonalData <PrsnlData>

Presence: [0..1]

Definition: Identifies personal data related to the cardholder.

Datatype: "Max70Text" on page 473

15.1.3.24 CardAcceptorTerminal1

Definition: Payment terminal or ATM performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		376
	Location <Lctn>	[0..1]			376
	AddressLine <AdrLine>	[0..2]	Text		377
	StreetName <StrtNm>	[0..1]	Text		377
	BuildingNumber <BldgNb>	[0..1]	Text		377
	PostCode <PstCd>	[0..1]	Text		377
	TownName <TwnNm>	[1..1]	Text		377
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		377
	Country <Ctry>	[1..1]	CodeSet		378
	Capabilities <Cpblties>	[1..1]	±		378

15.1.3.24.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the terminal.

It correspond to the ISO 8583 field number 41.

Identification <Id> contains the following elements (see "GenericIdentification32" on page 205 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		205
	Type <Tp>	[0..1]	CodeSet		205
	Issuer <Issr>	[0..1]	CodeSet		205
	ShortName <ShrtNm>	[0..1]	Text		206

15.1.3.24.2 Location <Lctn>

Presence: [0..1]

Definition: Location of the terminal.

Location <Lctn> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		377
	StreetName <StrtNm>	[0..1]	Text		377
	BuildingNumber <BldgNb>	[0..1]	Text		377
	PostCode <PstCd>	[0..1]	Text		377
	TownName <TwnNm>	[1..1]	Text		377
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		377
	Country <Ctry>	[1..1]	CodeSet		378

15.1.3.24.2.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.3.24.2.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.3.24.2.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.3.24.2.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.3.24.2.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.3.24.2.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.3.24.2.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.3.24.3 Capabilities <Cpblties>

Presence: [1..1]

Definition: Capabilities of the terminal performing the transaction.

Capabilities <Cpblties> contains the following elements (see "PointOfInteractionCapabilities4" on page 378 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[1..*]	CodeSet		379
	CardWritingCapabilities <CardWrttgCpblties>	[0..*]	CodeSet		380
	CardholderVerificationCapabilities <CrdhldrVrfctnCpblties>	[0..*]	CodeSet		380
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		381
	ApprovalCodeLength <ApprvlCdLngh>	[0..1]	Quantity		381
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		381
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		381
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		381
	MessageCapabilities <MsgCpblties>	[0..*]			382
	Destination <Dstn>	[1..1]	CodeSet		382
	AvailableFormat <AvlblFrmt>	[1..*]	CodeSet		382
	NumberOfLines <NbOfLines>	[0..1]	Quantity		383
	LineWidth <LineWidth>	[0..1]	Quantity		383
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet		383

15.1.3.25 PointOfInteractionCapabilities4

Definition: Capabilities of the terminal performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	CardReadingCapabilities <CardRdngCpblties>	[1..*]	CodeSet		379
	CardWritingCapabilities <CardWrttgCpblties>	[0..*]	CodeSet		380
	CardholderVerificationCapabilities <CrhdldrVrfctnCpblties>	[0..*]	CodeSet		380
	PINLengthCapabilities <PINLnghCpblties>	[0..1]	Quantity		381
	ApprovalCodeLength <ApprvICdLngh>	[0..1]	Quantity		381
	MaxScriptLength <MxScrptLngh>	[0..1]	Quantity		381
	CardCaptureCapable <CardCaptrCpbl>	[0..1]	Indicator		381
	OnLineCapabilities <OnLineCpblties>	[0..1]	CodeSet		381
	MessageCapabilities <MsgCpblties>	[0..*]			382
	Destination <Dstrn>	[1..1]	CodeSet		382
	AvailableFormat <AvlblFrmt>	[1..*]	CodeSet		382
	NumberOfLines <NbOfLines>	[0..1]	Quantity		383
	LineWidth <LineWidth>	[0..1]	Quantity		383
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet		383

15.1.3.25.1 CardReadingCapabilities <CardRdngCpblties>

Presence: [1..*]

Definition: Card reading capabilities of the terminal performing the transaction.

It correspond to the ISO 8583 field number 22-2 for the version 93, and field number 27-1 for the version 2003.

Datatype: "CardDataReading2Code" on page 442

CodeName	Name	Definition
DFLE	AccountData	Account data on file.
BRCD	BarCode	Bar code.
CDFL	CardOnFile	Card information are stored on a file.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.

CodeName	Name	Definition
CTLS	ProximityReader	Contactless proximity reader.
TAGC	Tag	Tag reading capabilities (RFID, etc.).
UNKW	Unknown	Unknown card reading capability.

15.1.3.25.2 CardWrittingCapabilities <CardWrttgCpblties>

Presence: [0..*]

Definition: Card writting capabilities of the terminal performing the transaction.

It correspond to the ISO 8583 field number 22-10 for the version 93, and field number 27-8_9 for the version 2003.

Datatype: "CardDataReading3Code" on page 443

CodeName	Name	Definition
CDFL	CardOnFile	Card information are stored on a file.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

15.1.3.25.3 CardholderVerificationCapabilities <CrhdldrVrfctn Cpblties>

Presence: [0..*]

Definition: Cardholder verification capabilities by the terminal.

It correspond to the ISO 8583 field number 22-2 for the versions 87 and 93, and field number 27-2 for the version 2003.

Datatype: "CardholderVerificationCapability2Code" on page 443

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).

CodeName	Name	Definition
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).
UNKW	Unknown	Unknown cardholder verification capability.
NBIO	OnLineBiometrics	Online biometrics.
NOVF	NoCapabilities	No cardholder verification capability.
OTHR	Other	Other cardholder verification capabilities.

15.1.3.25.4 PINLengthCapabilities <PINLnghCpblties>

Presence: [0..1]

Definition: Maximum number of digits the POI is able to accept when the cardholder enters its PIN.

It correspond to the ISO 8583, field number 25 for the version 87, 22-12 for the version 93, and field number 27-11 for the version 2003.

Datatype: "Number" on page 469

15.1.3.25.5 ApprovalCodeLength <ApprvlCdLngh>

Presence: [0..1]

Definition: Maximum number of characters of the approval code the POI is able to manage.

Datatype: "Number" on page 469

15.1.3.25.6 MaxScriptLength <MxScrpLngh>

Presence: [0..1]

Definition: Maximum data length in bytes that a card issuer can return to the ICC at the terminal.

Datatype: "Number" on page 469

15.1.3.25.7 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 468):

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

15.1.3.25.8 OnLineCapabilities <OnLineCpblties>

Presence: [0..1]

Definition: On-line and off-line capabilities of the POI (Point Of Interaction).

Datatype: "OnLineCapability1Code" on page 455

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.

15.1.3.25.9 MessageCapabilities <MsgCpblties>

Presence: [0..*]

Definition: Capabilities of the terminal to display or print message to the cardholder and the merchant.

It correspond to the ISO 8583 field number 22-11 for the version 93, and field number 27-6 for the version 2003.

MessageCapabilities <MsgCpblties> contains the following **DisplayCapabilities3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Destination <Dstn>	[1..1]	CodeSet		382
	AvailableFormat <AvlblFrmt>	[1..*]	CodeSet		382
	NumberOfLines <NbOfLines>	[0..1]	Quantity		383
	LineWidth <LineWidth>	[0..1]	Quantity		383
	AvailableLanguage <AvlblLang>	[0..*]	CodeSet		383

15.1.3.25.9.1 Destination <Dstn>

Presence: [1..1]

Definition: Destination of the message to present.

Datatype: "UserInterface1Code" on page 465

CodeName	Name	Definition
CDSP	CardholderDisplay	Cardholder display or interface.
CRCP	CardholderReceipt	Cardholder receipt.
MDSP	MerchantDisplay	Merchant display or interface.
MRCP	MerchantReceipt	Merchant receipt.

15.1.3.25.9.2 AvailableFormat <AvlblFrmt>

Presence: [1..*]

Definition: Available message format.

Datatype: "OutputFormat1Code" on page 455

CodeName	Name	Definition
MREF	MessageReference	Predefined configured messages, identified by a reference.
TEXT	SimpleText	Text without format attributes.
HTML	XHTML	XHTML document which includes a subset of the XHTML output tag.

15.1.3.25.9.3 NumberOfLines <NbOfLines>

Presence: [0..1]

Definition: Number of lines of the display.

Datatype: "Number" on page 469

15.1.3.25.9.4 LineWidth <LineWidth>

Presence: [0..1]

Definition: Number of columns of the display or printer.

Datatype: "Number" on page 469

15.1.3.25.9.5 AvailableLanguage <AvlblLang>

Presence: [0..*]

Definition: Available language for the message. Reference ISO 639-1 (alpha-2) et ISO 639-2 (alpha-3).

Datatype: "LanguageCode" on page 451

15.1.3.26 ContentInformationType12

Definition: General cryptographic message syntax (CMS) containing protected data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		383
	EnvelopedData <EnvlpdData>	[0..1]	±		384
	AuthenticatedData <AuthntcdData>	[0..1]	±		384
	SignedData <SgndData>	[0..1]	±		385
	DigestedData <DgstdData>	[0..1]	±		386

15.1.3.26.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data protection.

Datatype: "ContentType2Code" on page 448

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

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

15.1.3.26.2 EnvelopedData <EnvlpdData>

Presence: [0..1]

Definition: Data protection by encryption, with a session key.

EnvelopedData <EnvlpdData> contains the following elements (see ["EnvelopedData4"](#) on page 399 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		399
	Recipient <Rcpt>	[1..*]	±		399
	EncryptedContent <NcrptdCntt>	[0..1]			401
	ContentType <CnttTp>	[1..1]	CodeSet		401
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			401
	Algorithm <Algo>	[1..1]	CodeSet		402
	Parameter <Param>	[0..1]			402
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403
	EncryptedData <NcrptdData>	[1..1]	Binary		403

15.1.3.26.3 AuthenticatedData <AuthntcdData>

Presence: [0..1]

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

AuthenticatedData <AuthntcdData> contains the following elements (see "AuthenticatedData4" on page 405 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

15.1.3.26.4 SignedData <SgndData>

Presence: [0..1]

Definition: Data protected by a digital signatures.

SignedData <SgndData> contains the following elements (see "SignedData4" on page 389 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		390
	DigestAlgorithm <DgstAlgo>	[1..*]			391
	Algorithm <Algo>	[1..1]	CodeSet		391
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		391
	Certificate <Cert>	[0..*]	Binary		391
	Signer <Sgnr>	[1..*]			392
	Version <Vrsn>	[0..1]	Quantity		392
	SignerIdentification <SgnrId>	[0..1]			392
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			393
	Issuer <Issr>	[1..1]			393
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394
	SerialNumber <SrlNb>	[1..1]	Binary		394
Or}	KeyIdentifier <Keyldr>	[1..1]	±		394
	DigestAlgorithm <DgstAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		395
	SignatureAlgorithm <SgntrAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		396
	Parameter <Param>	[0..1]			396
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		397
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			397
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398
	SaltLength <SaltLngth>	[1..1]	Quantity		398
	TrailerField <TrlrFld>	[0..1]	Quantity		398
	Signature <Sgntr>	[1..1]	Binary		399

15.1.3.26.5 DigestedData <DgststdData>

Presence: [0..1]

Definition: Data protected by a digest.

DigestedData <DgstdData> contains the following elements (see "[DigestedData4](#)" on page 404 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		404
	DigestAlgorithm <DgstAlgo>	[1..1]			404
	Algorithm <Algo>	[1..1]	CodeSet		404
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		405
	Digest <Dgst>	[1..1]	Binary		405

15.1.3.27 AmountAndDirection41

Definition: Signed amount.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Amount <Amt>	[1..1]	Amount		387
	Sign <Sgn>	[0..1]	Indicator		387

15.1.3.27.1 Amount <Amt>

Presence: [1..1]

Definition: Amount value.

Datatype: "[CurrencyAndAmount](#)" on page 430

15.1.3.27.2 Sign <Sgn>

Presence: [0..1]

Definition: Indicates that the amount value is positive or negative.

Datatype: One of the following values must be used (see "[PlusOrMinusIndicator](#)" on page 468):

- *Meaning When True:* Plus
- *Meaning When False:* Minus

15.1.3.28 SaleContext1

Definition: Sale context in which the transaction is performed.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	SaleIdentification <SaleId>	[0..1]	Text		388
	SaleReferenceNumber <SaleRefNb>	[0..1]	Text		388
	SaleReconciliationIdentification <SaleRcncltnId>	[0..1]	Text		388
	CashierIdentification <CshrlId>	[0..1]	Text		388
	ShiftNumber <ShftNb>	[0..1]	Text		388
	AdditionalSaleData <AddtlSaleData>	[0..1]	Text		388

15.1.3.28.1 SaleIdentification <SaleId>*Presence:* [0..1]*Definition:* Identification of the sale terminal (electronic cash register) or the sale system.*Datatype:* "Max35Text" on page 471**15.1.3.28.2 SaleReferenceNumber <SaleRefNb>***Presence:* [0..1]*Definition:* Identify a sale transaction assigned by the sale system.*Datatype:* "Max35Text" on page 471**15.1.3.28.3 SaleReconciliationIdentification <SaleRcncltnId>***Presence:* [0..1]*Definition:* Identifier of the reconciliation between the Sale system and the POI system.*Datatype:* "Max35Text" on page 471**15.1.3.28.4 CashierIdentification <CshrlId>***Presence:* [0..1]*Definition:* Identification of the cashier who carried out the transaction.*Datatype:* "Max35Text" on page 471**15.1.3.28.5 ShiftNumber <ShftNb>***Presence:* [0..1]*Definition:* Identifies the shift of the cashier.*Datatype:* "Max2NumericText" on page 471**15.1.3.28.6 AdditionalSaleData <AddtlSaleData>***Presence:* [0..1]*Definition:* Additional information associated with the sale transaction.*Datatype:* "Max70Text" on page 473

15.1.3.29 CustomerDevice1

Definition: Device used by the customer to perform the payment.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[0..1]	Text		389
	Type <Tp>	[0..1]	Text		389
	Provider <Prvdr>	[0..1]	Text		389

15.1.3.29.1 Identification <Id>

Presence: [0..1]

Definition: Identifier of the component.

Datatype: "Max35Text" on page 471

15.1.3.29.2 Type <Tp>

Presence: [0..1]

Definition: Type of component.

Datatype: "Max35Text" on page 471

15.1.3.29.3 Provider <Prvdr>

Presence: [0..1]

Definition: Provider of the component.

Datatype: "Max35Text" on page 471

15.1.3.30 SignedData4

Definition: Digital signatures of data from one or several signers.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		390
	DigestAlgorithm <DgstAlgo>	[1..*]			391
	Algorithm <Algo>	[1..1]	CodeSet		391
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		391
	Certificate <Cert>	[0..*]	Binary		391
	Signer <Sgnr>	[1..*]			392
	Version <Vrsn>	[0..1]	Quantity		392
	SignerIdentification <SgnrId>	[0..1]			392
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			393
	Issuer <Issr>	[1..1]			393
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394
	SerialNumber <SrlNb>	[1..1]	Binary		394
Or}	KeyIdentifier <Keyldr>	[1..1]	±		394
	DigestAlgorithm <DgstAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		395
	SignatureAlgorithm <SgntrAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		396
	Parameter <Param>	[0..1]			396
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		397
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			397
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398
	SaltLength <SaltLngth>	[1..1]	Quantity		398
	TrailerField <TrlrFld>	[0..1]	Quantity		398
	Signature <Sgntr>	[1..1]	Binary		399

15.1.3.30.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: ["Number"](#) on page 469

15.1.3.30.2 DigestAlgorithm <DgstAlgo>

Presence: [1..*]

Definition: Identification of digest algorithm applied before signature.

DigestAlgorithm <DgstAlgo> contains the following **AlgorithmIdentification16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		391

15.1.3.30.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: ["Algorithm11Code"](#) on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.30.3 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data to sign.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see ["EncapsulatedContent3"](#) on page 314 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		314
	Content <Cntt>	[0..1]	Binary		315

15.1.3.30.4 Certificate <Cert>

Presence: [0..*]

Definition: Chain of X.509 certificates.

Datatype: ["Max5000Binary"](#) on page 432

15.1.3.30.5 Signer <Sgnr>*Presence:* [1..*]*Definition:* Digital signature and identification of a signer.**Signer <Sgnr>** contains the following **Signer3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		392
	SignerIdentification <SgnrId>	[0..1]			392
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			393
	Issuer </issr>	[1..1]			393
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394
	SerialNumber <SrlNb>	[1..1]	Binary		394
Or}	KeyIdentifier <Keyldr>	[1..1]	±		394
	DigestAlgorithm <DgstAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		395
	SignatureAlgorithm <SgntrAlgo>	[1..1]			395
	Algorithm <Algo>	[1..1]	CodeSet		396
	Parameter <Param>	[0..1]			396
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		397
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			397
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398
	SaltLength <SaltLngth>	[1..1]	Quantity		398
	TrailerField <TrlrFld>	[0..1]	Quantity		398
	Signature <Sgntr>	[1..1]	Binary		399

15.1.3.30.5.1 Version <Vrsn>*Presence:* [0..1]*Definition:* Version of the Cryptographic Message Syntax (CMS) data structure.*Datatype:* "Number" on page 469**15.1.3.30.5.2 SignerIdentification <SgnrId>***Presence:* [0..1]

Definition: Identification of the entity who has signed the data.

SignerIdentification <SgnrId> contains one of the following **Recipient5Choice** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			393
	Issuer <Issr>	[1..1]			393
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394
	SerialNumber <SrlNb>	[1..1]	Binary		394
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		394

15.1.3.30.5.2.1 IssuerAndSerialNumber <IssrAndSrlNb>

Presence: [1..1]

Definition: Certificate issuer name and serial number (see ITU X.509).

IssuerAndSerialNumber <IssrAndSrlNb> contains the following **IssuerAndSerialNumber1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Issuer <Issr>	[1..1]			393
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394
	SerialNumber <SrlNb>	[1..1]	Binary		394

15.1.3.30.5.2.1.1 Issuer <Issr>

Presence: [1..1]

Definition: Certificate issuer name (see X.509).

Issuer <Issr> contains the following **CertificateIssuer1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			393
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394

15.1.3.30.5.2.1.1.1 RelativeDistinguishedName <RltvDstngshdNm>

Presence: [1..*]

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

RelativeDistinguishedName <RltvDstngshdNm> contains the following **RelativeDistinguishedName1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AttributeType <AttrTp>	[1..1]	CodeSet		394
	AttributeValue <AttrVal>	[1..1]	Text		394

15.1.3.30.5.2.1.1.1.1 AttributeType <AttrTp>

Presence: [1..1]

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

Datatype: "AttributeType1Code" on page 438

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

15.1.3.30.5.2.1.1.1.2 AttributeValue <AttrVal>

Presence: [1..1]

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

Datatype: "Max140Text" on page 470

15.1.3.30.5.2.1.2 SerialNumber <SrINb>

Presence: [1..1]

Definition: Certificate serial number (see X.509).

Datatype: "Max35Binary" on page 432

15.1.3.30.5.2.2 KeyIdentifier <KeyIdr>

Presence: [1..1]

Definition: Identifier of a cryptographic asymmetric key, previously exchanged between initiator and recipient.

KeyIdentifier <KeyIdr> contains the following elements (see "[KEKIdentifier2](#)" on page 208 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	KeyIdentification <KeyId>	[1..1]	Text		208
	KeyVersion <KeyVrsn>	[1..1]	Text		208
	SequenceNumber <SeqNb>	[0..1]	Quantity		209
	DerivationIdentification <DerivtnId>	[0..1]	Binary		209

15.1.3.30.5.3 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of a digest algorithm to apply before signature.

DigestAlgorithm <DgstAlgo> contains the following **AlgorithmIdentification16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		395

15.1.3.30.5.3.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "[Algorithm11Code](#)" on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.30.5.4 SignatureAlgorithm <SgntrAlgo>

Presence: [1..1]

Definition: Cryptographic digital signature algorithm.

SignatureAlgorithm <SgntrAlgo> contains the following **AlgorithmIdentification17** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		396
	Parameter <Param>	[0..1]			396
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		397
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			397
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398
	SaltLength <SaltLngth>	[1..1]	Quantity		398
	TrailerField <TrlrFld>	[0..1]	Quantity		398

15.1.3.30.5.4.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the algorithm.

Datatype: "Algorithm14Code" on page 437

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	Signature algorithms with RSA (PKCS #1 version 2.1), using SHA-1 digest algorithm - (ASN.1 Object Identifier: sha1WithRSAEncryption).
RPSS	RSASSA-PSS	Signature algorithm with Appendix, Probabilistic Signature Scheme (PKCS #1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).

15.1.3.30.5.4.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters of the RSASSA-PSS digital signature algorithm (RSA signature algorithm with appendix: Probabilistic Signature Scheme).

Parameter <Param> contains the following **Parameter8** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[1..1]	CodeSet		397
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[1..1]			397
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398
	SaltLength <SaltLngth>	[1..1]	Quantity		398
	TrailerField <TrlrFld>	[0..1]	Quantity		398

15.1.3.30.5.4.2.1 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm11Code" on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.30.5.4.2.2 MaskGeneratorAlgorithm <MskGnrtrAlgo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm and parameters.

MaskGeneratorAlgorithm <MskGnrtrAlgo> contains the following **AlgorithmIdentification12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		397
	Parameter <Param>	[0..1]			398
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398

15.1.3.30.5.4.2.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Mask generator function cryptographic algorithm.

Datatype: "Algorithm8Code" on page 438

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

15.1.3.30.5.4.2.2.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated to the mask generator function cryptographic algorithm

Parameter <Param> contains the following **Parameter5** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		398

15.1.3.30.5.4.2.2.1 DigestAlgorithm <DgstAlgo>

Presence: [0..1]

Definition: Digest algorithm used in the mask generator function.

Datatype: "Algorithm11Code" on page 434

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.30.5.4.2.3 SaltLength <SaltLngth>

Presence: [1..1]

Definition: Length of the salt to include in the signature.

Datatype: "Number" on page 469

15.1.3.30.5.4.2.4 TrailerField <TrlrFld>

Presence: [0..1]

Definition: Trailer field number.

Datatype: "Number" on page 469

15.1.3.30.5.5 Signature <Sgntr>

Presence: [1..1]

Definition: Digital signature.

Datatype: "Max3000Binary" on page 431

15.1.3.31 EnvelopedData4

Definition: Encrypted data with encryption key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		399
	Recipient <Rcpt>	[1..*]	±		399
	EncryptedContent <NcrptdCntt>	[0..1]			401
	ContentType <CnttTp>	[1..1]	CodeSet		401
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			401
	Algorithm <Algo>	[1..1]	CodeSet		402
	Parameter <Param>	[0..1]			402
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403
	EncryptedData <NcrptdData>	[1..1]	Binary		403

15.1.3.31.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 469

15.1.3.31.2 Recipient <Rcpt>

Presence: [1..*]

Definition: Session key or identification of the protection key used by the recipient.

Recipient <Rcpt> contains one of the following elements (see "Recipient4Choice" on page 317 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			319
	Version <Vrsn>	[0..1]	Quantity		319
	RecipientIdentification <RcptId>	[1..1]			319
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			320
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		321
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			322
	Algorithm <Algo>	[1..1]	CodeSet		322
	Parameter <Param>	[0..1]			322
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324
	EncryptedKey <NcrptdKey>	[1..1]	Binary		325
Or	KEK <KEK>	[1..1]			325
	Version <Vrsn>	[0..1]	Quantity		325
	KEKIdentification <KEKId>	[1..1]	±		325
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			326
	Algorithm <Algo>	[1..1]	CodeSet		326
	Parameter <Param>	[0..1]			327
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327
	EncryptedKey <NcrptdKey>	[1..1]	Binary		328

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		328

15.1.3.31.3 EncryptedContent <NcrptdCntt>

Presence: [0..1]

Definition: Data protection by encryption (digital envelope), with an encryption key.

EncryptedContent <NcrptdCntt> contains the following **EncryptedContent3** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		401
	ContentEncryptionAlgorithm <CnttNcrptnAlgo>	[1..1]			401
	Algorithm <Algo>	[1..1]	CodeSet		402
	Parameter <Param>	[0..1]			402
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403
	EncryptedData <NcrptdData>	[1..1]	Binary		403

15.1.3.31.3.1 ContentType <CnttTp>

Presence: [1..1]

Definition: Type of data which have been encrypted.

Datatype: "ContentType2Code" on page 448

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

15.1.3.31.3.2 ContentEncryptionAlgorithm <CnttNcrptnAlgo>

Presence: [1..1]

Definition: Algorithm used to encrypt the data.

ContentEncryptionAlgorithm <CnttNcrptnAlgo> contains the following **AlgorithmIdentification14** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		402
	Parameter <Param>	[0..1]			402
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403

15.1.3.31.3.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the encryption algorithm.

Datatype: "Algorithm15Code" on page 437

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA5C	AES256CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 256 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

15.1.3.31.3.2.2 Parameter <Param>

Presence: [0..1]

Definition: Parameters associated with the CBC (Chain Block Chaining) encryption algorithm.

Parameter <Param> contains the following **Parameter6** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		403
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		403
	BytePadding <BPddg>	[0..1]	CodeSet		403

15.1.3.31.3.2.2.1 EncryptionFormat <NcrptnFrmt>

Presence: [0..1]

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Datatype: "EncryptionFormat1Code" on page 450

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.

15.1.3.31.3.2.2.2 InitialisationVector <InitlstnVctr>

Presence: [0..1]

Definition: Initialisation vector of a cipher block chaining (CBC) mode encryption.

Datatype: "Max500Binary" on page 432

15.1.3.31.3.2.2.3 BytePadding <BPddg>

Presence: [0..1]

Definition: Byte padding for a cypher block chaining mode encryption, if the padding is not implicit.

Datatype: "BytePadding1Code" on page 441

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.

15.1.3.31.3.3 EncryptedData <NcrptdData>

Presence: [1..1]

Definition: Encrypted data, result of the content encryption.

Datatype: "Max100KBinary" on page 431

15.1.3.32 DigestedData4

Definition: Digest computed on the identified data.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		404
	DigestAlgorithm <DgstAlgo>	[1..1]			404
	Algorithm <Algo>	[1..1]	CodeSet		404
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		405
	Digest <Dgst>	[1..1]	Binary		405

15.1.3.32.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "Number" on page 469

15.1.3.32.2 DigestAlgorithm <DgstAlgo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

DigestAlgorithm <DgstAlgo> contains the following **AlgorithmIdentification16** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		404

15.1.3.32.2.1 Algorithm <Algo>

Presence: [1..1]

Definition: Identification of the digest algorithm.

Datatype: "Algorithm11Code" on page 434

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).

CodeName	Name	Definition
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.1.3.32.3 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data on which the digest is computed.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see "[EncapsulatedContent3](#)" on [page 314](#) for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		314
	Content <Cntt>	[0..1]	Binary		315

15.1.3.32.4 Digest <Dgst>

Presence: [1..1]

Definition: Result of data-digesting process.

Datatype: "[Max140Binary](#)" on [page 431](#)

15.1.3.33 AuthenticatedData4

Definition: Message authentication code (MAC), computed on the data to protect with an encryption key.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Version <Vrsn>	[0..1]	Quantity		405
	Recipient <Rcpt>	[1..*]	±		405
	MACAlgorithm <MACAlgo>	[1..1]	±		407
	EncapsulatedContent <NcpsltdCntt>	[1..1]	±		407
	MAC <MAC>	[1..1]	Binary		407

15.1.3.33.1 Version <Vrsn>

Presence: [0..1]

Definition: Version of the data structure.

Datatype: "[Number](#)" on [page 469](#)

15.1.3.33.2 Recipient <Rcpt>

Presence: [1..*]

Definition: Session key or protection key identification used by the recipient.

Recipient <Rcpt> contains one of the following elements (see "Recipient4Choice" on page 317 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
{Or	KeyTransport <KeyTrnsprt>	[1..1]			319
	Version <Vrsn>	[0..1]	Quantity		319
	RecipientIdentification <RcptId>	[1..1]			319
{Or	IssuerAndSerialNumber <IssrAndSrlNb>	[1..1]			320
	Issuer <Issr>	[1..1]			320
	RelativeDistinguishedName <RltvDstngshdNm>	[1..*]			320
	AttributeType <AttrTp>	[1..1]	CodeSet		321
	AttributeValue <AttrVal>	[1..1]	Text		321
	SerialNumber <SrlNb>	[1..1]	Binary		321
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		321
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			322
	Algorithm <Algo>	[1..1]	CodeSet		322
	Parameter <Param>	[0..1]			322
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		323
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		323
	MaskGeneratorAlgorithm <MskGnrtrAlgo>	[0..1]			323
	Algorithm <Algo>	[1..1]	CodeSet		324
	Parameter <Param>	[0..1]			324
	DigestAlgorithm <DgstAlgo>	[0..1]	CodeSet		324
	EncryptedKey <NcrptdKey>	[1..1]	Binary		325
Or	KEK <KEK>	[1..1]			325
	Version <Vrsn>	[0..1]	Quantity		325
	KEKIdentification <KEKId>	[1..1]	±		325
	KeyEncryptionAlgorithm <KeyNcrptnAlgo>	[1..1]			326
	Algorithm <Algo>	[1..1]	CodeSet		326
	Parameter <Param>	[0..1]			327
	EncryptionFormat <NcrptnFrmt>	[0..1]	CodeSet		327
	InitialisationVector <InitlstnVctr>	[0..1]	Binary		327
	BytePadding <BPddg>	[0..1]	CodeSet		327
	EncryptedKey <NcrptdKey>	[1..1]	Binary		328

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
Or}	KeyIdentifier <KeyIdr>	[1..1]	±		328

15.1.3.33.3 MACAlgorithm <MACAlgo>

Presence: [1..1]

Definition: Algorithm to compute message authentication code (MAC).

MACAlgorithm <MACAlgo> contains the following elements (see "[AlgorithmIdentification15](#)" on page 315 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Algorithm <Algo>	[1..1]	CodeSet		315
	Parameter <Param>	[0..1]			316
	InitialisationVector <InitlStnVctr>	[0..1]	Binary		316
	BytePadding <BPddg>	[0..1]	CodeSet		316

15.1.3.33.4 EncapsulatedContent <NcpsltdCntt>

Presence: [1..1]

Definition: Data to authenticate.

EncapsulatedContent <NcpsltdCntt> contains the following elements (see "[EncapsulatedContent3](#)" on page 314 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		314
	Content <Cntt>	[0..1]	Binary		315

15.1.3.33.5 MAC <MAC>

Presence: [1..1]

Definition: Message authentication code value.

Datatype: "[Max140Binary](#)" on page 431

15.1.4 Organisation Identification

15.1.4.1 Organisation18

Definition: Card acceptor performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		408
	CommonName <CmonNm>	[1..1]	Text		408
	Location <Lctn>	[1..1]	±		408
	SelectedLanguage <SelctdLang>	[0..1]	CodeSet		409
	SchemeData <SchmeData>	[0..1]	Text		409

15.1.4.1.1 Identification <Id>

Presence: [1..1]

Definition: Identification of the card acceptor.

Identification <Id> contains the following elements (see "[GenericIdentification32](#)" on page 205 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		205
	Type <Tp>	[0..1]	CodeSet		205
	Issuer <Issr>	[0..1]	CodeSet		205
	ShortName <ShrtNm>	[0..1]	Text		206

15.1.4.1.2 CommonName <CmonNm>

Presence: [1..1]

Definition: Name of the card acceptor as appearing on the receipt or the statement of account of the cardholder.

It correspond to the ISO 8583 field number 43.

Datatype: "[Max70Text](#)" on page 473

15.1.4.1.3 Location <Lctn>

Presence: [1..1]

Definition: Location of the card acceptor.

It correspond to the ISO 8583 field number 43.

Location <Lctn> contains the following elements (see "[CommunicationAddress5](#)" on page 427 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PostalAddress <PstlAdr>	[0..1]			428
	AddressLine <AdrLine>	[0..2]	Text		428
	StreetName <StrtNm>	[0..1]	Text		429
	BuildingNumber <BldgNb>	[0..1]	Text		429
	PostCode <PstCd>	[0..1]	Text		429
	TownName <TwnNm>	[1..1]	Text		429
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		429
	Country <Ctry>	[1..1]	CodeSet		429
	Email <Email>	[0..1]	Text		429
	URLAddress <URLAdr>	[0..1]	Text		429
	Phone <Phne>	[0..1]	Text		430
	CustomerService <CstmrSvc>	[0..1]	Text		430
	AdditionalContactInformation <AddtlCtctInf>	[0..1]	Text		430

15.1.4.1.4 SelectedLanguage <SelctdLang>

Presence: [0..1]

Definition: Selected language of the card acceptor. Reference ISO 639-1 (alpha-2) and ISO 639-2 (alpha-3).

Datatype: "[LanguageCode](#)" on page 451

15.1.4.1.5 SchemeData <SchmeData>

Presence: [0..1]

Definition: Additional card acceptor data required by a card scheme.

Datatype: "[Max140Text](#)" on page 470

15.1.4.2 Organisation19

Definition: Card acceptor performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	±		410
	CommonName <CmonNm>	[1..1]	Text		410
	SelectedLanguage <SelctdLang>	[0..1]	CodeSet		410
	SchemeData <SchmeData>	[0..1]	Text		410

15.1.4.2.1 Identification <Id>*Presence:* [1..1]*Definition:* Identification of the card acceptor.**Identification <Id>** contains the following elements (see "[GenericIdentification32](#)" on page 205 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		205
	Type <Tp>	[0..1]	CodeSet		205
	Issuer <Issr>	[0..1]	CodeSet		205
	ShortName <ShrtNm>	[0..1]	Text		206

15.1.4.2.2 CommonName <CmonNm>*Presence:* [1..1]*Definition:* Name of the card acceptor as appearing on the receipt or the statement of account of the cardholder.

It correspond to the ISO 8583, field number 43.

Datatype: "[Max70Text](#)" on page 473**15.1.4.2.3 SelectedLanguage <SelctdLang>***Presence:* [0..1]*Definition:* Selected language of the card acceptor. Reference ISO 639-1 (alpha-2) and ISO 639-2 (alpha-3).*Datatype:* "[LanguageCode](#)" on page 451**15.1.4.2.4 SchemeData <SchmeData>***Presence:* [0..1]*Definition:* Additional card acceptor data required by a card scheme.*Datatype:* "[Max140Text](#)" on page 470**15.1.5 Party Identification****15.1.5.1 Acquirer6***Definition:* Acquirer of the card transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		411
	Issuer <Issr>	[0..1]	Text		411
	CountryCode <CtryCd>	[0..1]	CodeSet		411

15.1.5.1.1 Identification <Id>*Presence:* [1..1]*Definition:* Identification of the acquirer.

It correspond to the ISO 8583 field number 32.

Datatype: "Max35Text" on page 471**15.1.5.1.2 Issuer <Issr>***Presence:* [0..1]*Definition:* Identification of the entity assigning the acquirer identification.*Datatype:* "Max35Text" on page 471**15.1.5.1.3 CountryCode <CtryCd>***Presence:* [0..1]*Definition:* Country of the acquirer.

It correspond to the ISO 8583 field number 19.

Datatype: "ISO3NumericCountryCode" on page 451**15.1.6 Payment****15.1.6.1 CardPaymentToken4***Definition:* Payment token information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Token <Tkn>	[0..1]	Text		411
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		412
	TokenExpiryDate <TknXpryDt>	[0..1]	Text		412
	TokenCharacteristic <TknChrtc>	[0..*]	Text		412
	TokenRequestor <TknRqstr>	[0..1]			412
	ProviderIdentification <PrvdrlId>	[1..1]	Text		412
	RequestorIdentification <RqstrId>	[1..1]	Text		412
	TokenAssuranceLevel <TknAssrncLvl>	[0..1]	Quantity		412
	TokenAssuranceData <TknAssrncData>	[0..1]	Binary		413

15.1.6.1.1 Token <Tkn>*Presence:* [0..1]*Definition:* Surrogate value for the PAN.*Datatype:* "Min8Max28NumericText" on page 474

15.1.6.1.2 CardSequenceNumber <CardSeqNb>*Presence:* [0..1]*Definition:* Identify a payment token inside a set of cards with the same PAN.*Datatype:* "Min2Max3NumericText" on page 473**15.1.6.1.3 TokenExpiryDate <TknXpryDt>***Presence:* [0..1]*Definition:* Expiration date of the payment token that is generated by and maintained in the token vault.*Datatype:* "Max10Text" on page 470**15.1.6.1.4 TokenCharacteristic <TknChrtc>***Presence:* [0..*]*Definition:* Additional payment token information.*Datatype:* "Max35Text" on page 471**15.1.6.1.5 TokenRequestor <TknRqstr>***Presence:* [0..1]*Definition:* Identifier of a token provider requestor.**TokenRequestor <TknRqstr>** contains the following **PaymentTokenIdentifiers1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProviderIdentification <PrvdrId>	[1..1]	Text		412
	RequestorIdentification <RqstrId>	[1..1]	Text		412

15.1.6.1.5.1 ProviderIdentification <PrvdrId>*Presence:* [1..1]*Definition:* Identifier of the token provider.*Datatype:* "Max35Text" on page 471**15.1.6.1.5.2 RequestorIdentification <RqstrId>***Presence:* [1..1]*Definition:* Identifier of the token requestor.*Datatype:* "Max35Text" on page 471**15.1.6.1.6 TokenAssuranceLevel <TknAssrncLvl>***Presence:* [0..1]*Definition:* Level of confidence resulting of the identification and authentication of the cardholder performed and the entity that performed it.*Datatype:* "Number" on page 469

15.1.6.1.7 TokenAssuranceData <TknAssrncData>

Presence: [0..1]

Definition: Information about the identification and verification of the cardholder.

Datatype: "Max500Binary" on page 432

15.1.6.2 PaymentCard13

Definition: Payment card performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		413
	PlainCardData <PlainCardData>	[0..1]			413
	PAN <PAN>	[1..1]	Text		414
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		414
	EffectiveDate <FctvDt>	[0..1]	Text		414
	ExpiryDate <XpryDt>	[1..1]	Text		414
	ServiceCode <SvcCd>	[0..1]	Text		414
	TrackData <TrckData>	[0..*]			414
	TrackNumber <TrckNb>	[0..1]	Text		415
	TrackValue <TrckVal>	[1..1]	Text		415
	MaskedPAN <MskdPAN>	[0..1]	Text		415
	CardProductType <CardPdctTp>	[0..1]	CodeSet		415
	CardProductName <CardPdctNm>	[0..1]	Text		415

15.1.6.2.1 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 "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.6.2.2 PlainCardData <PlainCardData>

Presence: [0..1]

Definition: Sensitive data associated with the card performing the transaction.

PlainCardData <PlainCardData> contains the following **PlainCardData9** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		414
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		414
	EffectiveDate <FctvDt>	[0..1]	Text		414
	ExpiryDate <XpryDt>	[1..1]	Text		414
	ServiceCode <SvcCd>	[0..1]	Text		414
	TrackData <TrckData>	[0..*]			414
	TrackNumber <TrckNb>	[0..1]	Text		415
	TrackValue <TrckVal>	[1..1]	Text		415

15.1.6.2.2.1 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 474

15.1.6.2.2.2 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 473

15.1.6.2.2.3 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 470

15.1.6.2.2.4 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 470

15.1.6.2.2.5 ServiceCode <SvcCd>

Presence: [0..1]

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

Datatype: "Exact3NumericText" on page 469

15.1.6.2.2.6 TrackData <TrckData>

Presence: [0..*]

Definition: Track issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The track value might be provided by a payment token.

TrackData <TrckData> contains the following **TrackData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TrackNumber <TrckNb>	[0..1]	Text		415
	TrackValue <TrckVal>	[1..1]	Text		415

15.1.6.2.2.6.1 TrackNumber <TrckNb>

Presence: [0..1]

Definition: Track number of the card.

Datatype: "Exact1NumericText" on page 469

15.1.6.2.2.6.2 TrackValue <TrckVal>

Presence: [1..1]

Definition: Card track content or equivalent.

Datatype: "Max140Text" on page 470

15.1.6.2.3 MaskedPAN <MskdPAN>

Presence: [0..1]

Definition: Masked PAN to be printed the payment receipts or displayed to the cardholder. Masked digits may be absent or replaced by another character as '*'.

Datatype: "Max30Text" on page 471

15.1.6.2.4 CardProductType <CardPdctTp>

Presence: [0..1]

Definition: Type of card product.

Datatype: "CardProductType1Code" on page 446

CodeName	Name	Definition
COMM	CommercialCard	Cards issued as a means of business expenditure, for instance business card or corporate card. The user could be a company, an individual for business expenses or a self employed for business purposes.
CONS	ConsumerCard	Cards issued as a means of personal expenditure. The user is always an individual.

15.1.6.2.5 CardProductName <CardPdctNm>

Presence: [0..1]

Definition: Name of card product.

Datatype: "Max35Text" on page 471

15.1.6.3 PaymentCard12

Definition: Payment card performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		416
	PlainCardData <PlainCardData>	[0..1]			416
	PAN <PAN>	[1..1]	Text		417
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		417
	EffectiveDate <FctvDt>	[0..1]	Text		417
	ExpiryDate <XpryDt>	[0..1]	Text		417
	ServiceCode <SvcCd>	[0..1]	Text		417
	TrackData <TrckData>	[0..*]			418
	TrackNumber <TrckNb>	[0..1]	Text		418
	TrackValue <TrckVal>	[1..1]	Text		418
	CardholderName <CrdhldrNm>	[0..1]	Text		418
	IssuerBIN <IssrBIN>	[0..1]	Text		418
	CardCountryCode <CardCtryCd>	[0..1]	Text		418
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		418
	AdditionalCardData <AddtlCardData>	[0..1]	Text		418

15.1.6.3.1 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 "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.6.3.2 PlainCardData <PlainCardData>

Presence: [0..1]

Definition: Sensitive data associated with the card performing the transaction.

PlainCardData <PlainCardData> contains the following **PlainCardData10** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		417
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		417
	EffectiveDate <FctvDt>	[0..1]	Text		417
	ExpiryDate <XpryDt>	[0..1]	Text		417
	ServiceCode <SvcCd>	[0..1]	Text		417
	TrackData <TrckData>	[0..*]			418
	TrackNumber <TrckNb>	[0..1]	Text		418
	TrackValue <TrckVal>	[1..1]	Text		418
	CardholderName <CrhldrNm>	[0..1]	Text		418

15.1.6.3.2.1 PAN <PAN>

Presence: [1..1]

Definition: Primary Account Number (PAN) of the card, or surrogate of the PAN by a payment token.

It correspond to the ISO 8583 field number 2.

Datatype: "Min8Max28NumericText" on page 474

15.1.6.3.2.2 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 473

15.1.6.3.2.3 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 470

15.1.6.3.2.4 ExpiryDate <XpryDt>

Presence: [0..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 470

15.1.6.3.2.5 ServiceCode <SvcCd>

Presence: [0..1]

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

Datatype: "Exact3NumericText" on page 469

15.1.6.3.2.6 TrackData <TrckData>*Presence:* [0..*]*Definition:* Track issued from the magnetic stripe card or from the ICC if the magnetic stripe was not read. The track value might be provided by a payment token.**TrackData <TrckData>** contains the following **TrackData1** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	TrackNumber <TrckNb>	[0..1]	Text		418
	TrackValue <TrckVal>	[1..1]	Text		418

15.1.6.3.2.6.1 TrackNumber <TrckNb>*Presence:* [0..1]*Definition:* Track number of the card.*Datatype:* "Exact1NumericText" on page 469**15.1.6.3.2.6.2 TrackValue <TrckVal>***Presence:* [1..1]*Definition:* Card track content or equivalent.*Datatype:* "Max140Text" on page 470**15.1.6.3.2.7 CardholderName <CrhdldrNm>***Presence:* [0..1]*Definition:* Name of the cardholder stored on the card.*Datatype:* "Max45Text" on page 472**15.1.6.3.3 IssuerBIN <IssrBIN>***Presence:* [0..1]*Definition:* Bank identifier number of the issuer for routing purpose.*Datatype:* "Max15NumericText" on page 470**15.1.6.3.4 CardCountryCode <CardCtryCd>***Presence:* [0..1]*Definition:* Country code assigned to the card by the card issuer.*Datatype:* "Max3Text" on page 472**15.1.6.3.5 CardCurrencyCode <CardCcyCd>***Presence:* [0..1]*Definition:* Currency code of the card issuer (ISO 4217 numeric code).*Datatype:* "Exact3AlphaNumericText" on page 469**15.1.6.3.6 AdditionalCardData <AddtlCardData>***Presence:* [0..1]

Definition: Additional card issuer specific data.

Datatype: "Max70Text" on page 473

15.1.6.4 PaymentCard14

Definition: Payment card performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		419
	PlainCardData <PlainCardData>	[0..1]			419
	PAN <PAN>	[1..1]	Text		420
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		420
	EffectiveDate <FctvDt>	[0..1]	Text		420
	ExpiryDate <XpryDt>	[0..1]	Text		420
	ServiceCode <SvcCd>	[0..1]	Text		420
	IssuerBIN <IssrBIN>	[0..1]	Text		420
	CardCountryCode <CardCtryCd>	[0..1]	Text		421
	CardCurrencyCode <CardCcyCd>	[0..1]	Text		421

15.1.6.4.1 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 "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.6.4.2 PlainCardData <PlainCardData>

Presence: [0..1]

Definition: Sensitive data associated with the card performing the transaction.

PlainCardData <PlainCardData> contains the following **PlainCardData11** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		420
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		420
	EffectiveDate <FctvDt>	[0..1]	Text		420
	ExpiryDate <XpryDt>	[0..1]	Text		420
	ServiceCode <SvcCd>	[0..1]	Text		420

15.1.6.4.2.1 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 474

15.1.6.4.2.2 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 473

15.1.6.4.2.3 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 470

15.1.6.4.2.4 ExpiryDate <XpryDt>

Presence: [0..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 470

15.1.6.4.2.5 ServiceCode <SvcCd>

Presence: [0..1]

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

Datatype: "Exact3NumericText" on page 469

15.1.6.4.3 IssuerBIN <IssrBIN>

Presence: [0..1]

Definition: Bank identifier number of the issuer for routing purpose.

Datatype: "Max15NumericText" on page 470

15.1.6.4.4 CardCountryCode <CardCtryCd>

Presence: [0..1]

Definition: Country code assigned to the card by the card issuer.

Datatype: "Max3Text" on page 472

15.1.6.4.5 CardCurrencyCode <CardCcyCd>

Presence: [0..1]

Definition: Currency code of the card issuer (ISO 4217 numeric code).

Datatype: "Exact3AlphaNumericText" on page 469

15.1.6.5 PaymentCard15

Definition: Payment card performing the transaction.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ProtectedCardData <PrtctdCardData>	[0..1]	±		421
	PlainCardData <PlainCardData>	[0..1]			421
	PAN <PAN>	[1..1]	Text		422
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		422
	ExpiryDate <XpryDt>	[0..1]	Text		422
	MaskedPAN <MskdPAN>	[0..1]	Text		422
	CardProductType <CardPdctTp>	[0..1]	CodeSet		422
	CardProductName <CardPdctNm>	[0..1]	Text		423

15.1.6.5.1 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 "ContentInformationType10" on page 209 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	ContentType <CnttTp>	[1..1]	CodeSet		209
	EnvelopedData <EnvlpdData>	[1..1]	±		210

15.1.6.5.2 PlainCardData <PlainCardData>

Presence: [0..1]

Definition: Sensitive data associated with the card performing the transaction.

PlainCardData <PlainCardData> contains the following **PlainCardData12** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PAN <PAN>	[1..1]	Text		422
	CardSequenceNumber <CardSeqNb>	[0..1]	Text		422
	ExpiryDate <XpryDt>	[0..1]	Text		422

15.1.6.5.2.1 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 474

15.1.6.5.2.2 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 473

15.1.6.5.2.3 ExpiryDate <XpryDt>

Presence: [0..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 470

15.1.6.5.3 MaskedPAN <MskdPAN>

Presence: [0..1]

Definition: Masked PAN to be printed the payment receipts or displayed to the cardholder. Masked digits may be absent or replaced by another character as '*'.

Datatype: "Max30Text" on page 471

15.1.6.5.4 CardProductType <CardPdctTp>

Presence: [0..1]

Definition: Type of card product.

Datatype: "CardProductType1Code" on page 446

CodeName	Name	Definition
COMM	CommercialCard	Cards issued as a means of business expenditure, for instance business card or corporate card. The user could be a company, an individual for business expenses or a self employed for business purposes.
CONS	ConsumerCard	Cards issued as a means of personal expenditure. The user is always an individual.

15.1.6.5.5 CardProductName <CardPdctNm>

Presence: [0..1]

Definition: Name of card product.

Datatype: "Max35Text" on page 471

15.1.7 Person Identification

15.1.7.1 PersonIdentification7

Definition: Set of unique and unambiguous ways to identify a person.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	DriversLicenseNumber <DrvrsLicNb>	[0..1]	Text		423
	CustomerNumber <CstmrNb>	[0..1]	Text		423
	SocialSecurityNumber <SciSctyNb>	[0..1]	Text		423
	AlienRegistrationNumber <AlnRegnNb>	[0..1]	Text		424
	PassportNumber <PsptNb>	[0..1]	Text		424
	TaxIdentificationNumber <TaxIdNb>	[0..1]	Text		424
	IdentityCardNumber <IdntyCardNb>	[0..1]	Text		424
	EmployerIdentificationNumber <MplyrIdNb>	[0..1]	Text		424
	EmployeeIdentificationNumber <MplyeIdNb>	[0..1]	Text		424
	EmailAddress <EmailAdr>	[0..1]	Text		424
	DateAndPlaceOfBirth <DtAndPlcOfBirth>	[0..1]	±		424
	Other <Othr>	[0..*]	±		425

15.1.7.1.1 DriversLicenseNumber <DrvrsLicNb>

Presence: [0..1]

Definition: Number assigned by a license authority to a driver's license.

Datatype: "Max35Text" on page 471

15.1.7.1.2 CustomerNumber <CstmrNb>

Presence: [0..1]

Definition: Number assigned by an agent to identify its customer.

Datatype: "Max35Text" on page 471

15.1.7.1.3 SocialSecurityNumber <SciSctyNb>

Presence: [0..1]

Definition: Number assigned by a social security agency.

Datatype: "Max35Text" on page 471

15.1.7.1.4 AlienRegistrationNumber <AlnRegnNb>

Presence: [0..1]

Definition: Number assigned by a government agency to identify foreign nationals.

Datatype: "Max35Text" on page 471

15.1.7.1.5 PassportNumber <PsptNb>

Presence: [0..1]

Definition: Number assigned by a passport authority to a passport.

Datatype: "Max35Text" on page 471

15.1.7.1.6 TaxIdentificationNumber <TaxIdNb>

Presence: [0..1]

Definition: Number assigned by a tax authority to an entity.

Datatype: "Max35Text" on page 471

15.1.7.1.7 IdentityCardNumber <IdntyCardNb>

Presence: [0..1]

Definition: Number assigned by a national authority to an identity card.

Datatype: "Max35Text" on page 471

15.1.7.1.8 EmployerIdentificationNumber <MplyrIdNb>

Presence: [0..1]

Definition: Number assigned to an employer by a registration authority.

Datatype: "Max35Text" on page 471

15.1.7.1.9 EmployeeIdentificationNumber <MplyeIdNb>

Presence: [0..1]

Definition: Number assigned to an employee by a employer.

Datatype: "Max35Text" on page 471

15.1.7.1.10 EmailAddress <EmailAdr>

Presence: [0..1]

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

Datatype: "Max256Text" on page 471

15.1.7.1.11 DateAndPlaceOfBirth <DtAndPlcOfBirth>

Presence: [0..1]

Definition: Date and place of birth of a person.

DateAndPlaceOfBirth <DtAndPlcOfBirth> contains the following elements (see ["DateAndPlaceOfBirth"](#) on page 425 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		425
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		425
	CityOfBirth <CityOfBirth>	[1..1]	Text		425
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet		426

15.1.7.1.12 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 204 for details)

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	Identification <Id>	[1..1]	Text		204
	IdentificationType <IdTp>	[1..1]	Text		204

15.1.7.2 DateAndPlaceOfBirth

Definition: Date and place of birth of a person.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	BirthDate <BirthDt>	[1..1]	Date		425
	ProvinceOfBirth <PrvcOfBirth>	[0..1]	Text		425
	CityOfBirth <CityOfBirth>	[1..1]	Text		425
	CountryOfBirth <CtryOfBirth>	[1..1]	CodeSet		426

15.1.7.2.1 BirthDate <BirthDt>

Presence: [1..1]

Definition: Date on which a person is born.

Datatype: ["ISODate"](#) on page 466

15.1.7.2.2 ProvinceOfBirth <PrvcOfBirth>

Presence: [0..1]

Definition: Province where a person was born.

Datatype: ["Max35Text"](#) on page 471

15.1.7.2.3 CityOfBirth <CityOfBirth>

Presence: [1..1]

Definition: City where a person was born.

Datatype: "Max35Text" on page 471

15.1.7.2.4 CountryOfBirth <CtryOfBirth>

Presence: [1..1]

Definition: Country where a person was born.

Datatype: "CountryCode" on page 449

15.1.8 Postal Address

15.1.8.1 PostalAddress1

Definition: Information that locates and identifies a specific address, as defined by postal services.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressType <AdrTp>	[0..1]	CodeSet		426
	AddressLine <AdrLine>	[0..5]	Text		426
	StreetName <StrtNm>	[0..1]	Text		427
	BuildingNumber <BldgNb>	[0..1]	Text		427
	PostCode <PstCd>	[0..1]	Text		427
	TownName <TwnNm>	[0..1]	Text		427
	CountrySubDivision <CtrySubDvsn>	[0..1]	Text		427
	Country <Ctry>	[1..1]	CodeSet		427

15.1.8.1.1 AddressType <AdrTp>

Presence: [0..1]

Definition: Identifies the nature of the postal address.

Datatype: "AddressType2Code" on page 434

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.

15.1.8.1.2 AddressLine <AdrLine>

Presence: [0..5]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.8.1.3 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.8.1.4 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.8.1.5 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.8.1.6 TownName <TwnNm>

Presence: [0..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.8.1.7 CountrySubDivision <CtrySubDvsn>

Presence: [0..1]

Definition: Identifies a subdivision of a country eg, state, region, county.

Datatype: "Max35Text" on page 471

15.1.8.1.8 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government.

Datatype: "CountryCode" on page 449

15.1.8.2 CommunicationAddress5

Definition: Communication information.

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	PostalAddress <PstlAdr>	[0..1]			428
	AddressLine <AdrLine>	[0..2]	Text		428
	StreetName <StrtNm>	[0..1]	Text		429
	BuildingNumber <BldgNb>	[0..1]	Text		429
	PostCode <PstCd>	[0..1]	Text		429
	TownName <TwnNm>	[1..1]	Text		429
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		429
	Country <Ctry>	[1..1]	CodeSet		429
	Email <Email>	[0..1]	Text		429
	URLAddress <URLAdr>	[0..1]	Text		429
	Phone <Phne>	[0..1]	Text		430
	CustomerService <CstmrSvc>	[0..1]	Text		430
	AdditionalContactInformation <AddtlCtctInf>	[0..1]	Text		430

15.1.8.2.1 PostalAddress <PstlAdr>

Presence: [0..1]

Definition: Postal address of the entity.

PostalAddress <PstlAdr> contains the following **PostalAddress18** elements

Or	MessageElement<XML Tag>	Mult.	Type	Constr. No.	Page
	AddressLine <AdrLine>	[0..2]	Text		428
	StreetName <StrtNm>	[0..1]	Text		429
	BuildingNumber <BldgNb>	[0..1]	Text		429
	PostCode <PstCd>	[0..1]	Text		429
	TownName <TwnNm>	[1..1]	Text		429
	CountrySubDivision <CtrySubDvsn>	[0..2]	Text		429
	Country <Ctry>	[1..1]	CodeSet		429

15.1.8.2.1.1 AddressLine <AdrLine>

Presence: [0..2]

Definition: Information that locates and identifies a specific address, as defined by postal services, that is presented in free format text.

Datatype: "Max70Text" on page 473

15.1.8.2.1.2 StreetName <StrtNm>

Presence: [0..1]

Definition: Name of a street or thoroughfare.

Datatype: "Max70Text" on page 473

15.1.8.2.1.3 BuildingNumber <BldgNb>

Presence: [0..1]

Definition: Number that identifies the position of a building on a street.

Datatype: "Max16Text" on page 470

15.1.8.2.1.4 PostCode <PstCd>

Presence: [0..1]

Definition: Identifier consisting of a group of letters and/or numbers that is added to a postal address to assist the sorting of mail.

Datatype: "Max16Text" on page 470

15.1.8.2.1.5 TownName <TwnNm>

Presence: [1..1]

Definition: Name of a built-up area, with defined boundaries, and a local government.

Datatype: "Max35Text" on page 471

15.1.8.2.1.6 CountrySubDivision <CtrySubDvsn>

Presence: [0..2]

Definition: Identifies a subdivision of a country, for instance state, region, county.

Datatype: "Max35Text" on page 471

15.1.8.2.1.7 Country <Ctry>

Presence: [1..1]

Definition: Nation with its own government, occupying a particular territory.

Datatype: "CountryCode" on page 449

15.1.8.2.2 Email <Email>

Presence: [0..1]

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

Datatype: "Max256Text" on page 471

15.1.8.2.3 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 471

15.1.8.2.4 Phone <Phne>

Presence: [0..1]

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

Datatype: "PhoneNumber" on page 474

15.1.8.2.5 CustomerService <CstmrSvc>

Presence: [0..1]

Definition: Phone number of the customer service.

Datatype: "PhoneNumber" on page 474

15.1.8.2.6 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 471

15.2 Message Datatypes

15.2.1 Amount

15.2.1.1 CurrencyAndAmount

Definition: Number of monetary units specified in a currency, where the unit of currency is explicit and compliant with ISO 4217. The decimal separator is a dot.

Note: A zero amount is considered a positive amount.

Type: Amount

This data type contains the following XML attribute:

Name	Attribute XML Name	Datatype
Currency	Ccy	"CurrencyCode" on page 449

Format

minInclusive	0
totalDigits	18
fractionDigits	5

Constraints

- **ValidationByTable**

15.2.1.2 ImpliedCurrencyAndAmount

Definition: Number of monetary units specified in a currency where the unit of currency is implied by the context and compliant with ISO 4217. The decimal separator is a dot.

Note: a zero amount is considered a positive amount.

Type: Amount

Format

minInclusive	0
totalDigits	18
fractionDigits	5

15.2.2 Binary

15.2.2.1 Max10000Binary

Definition: Specifies a binary string with a maximum length of 10000 binary bytes.

Type: Binary

Format

minLength	1
maxLength	10000

15.2.2.2 Max100KBinary

Definition: Binary data of 100K maximum.

Type: Binary

Format

minLength	1
maxLength	102400

15.2.2.3 Max140Binary

Definition: Specifies a binary string with a maximum length of 140 binary bytes.

Type: Binary

Format

minLength	1
maxLength	140

15.2.2.4 Max3000Binary

Definition: Specifies a binary string with a maximum length of 3000 binary bytes.

Type: Binary

Format

minLength	1
-----------	---

maxLength	3000
-----------	------

15.2.2.5 Max35Binary

Definition: Specifies a binary string with a maximum length of 35 binary bytes.

Type: Binary

Format

minLength	1
maxLength	35

15.2.2.6 Max5000Binary

Definition: Specifies a binary string with a maximum length of 5000 binary bytes.

Type: Binary

Format

minLength	1
maxLength	5000

15.2.2.7 Max500Binary

Definition: Specifies a binary string with a maximum length of 500 binary bytes.

Type: Binary

Format

minLength	1
maxLength	500

15.2.2.8 Min5Max16Binary

Definition: Specifies a binary string with a minimum length of 5 bytes, and a maximum length of 16 bytes.

Type: Binary

Format

minLength	5
maxLength	16

15.2.3 CodeSet

15.2.3.1 AccountChoiceMethod1Code

Definition: Method used by the cardholder and the terminal for the choice of the account.

Type: CodeSet

CodeName	Name	Definition
ACSL	AccountSelected	Account selected in an account list.
ENTR	Entered	Account identification is entered by the customer.
IMAC	ImplicitAccount	Account is selected according to the configuration.
IMPL	ImplicitType	Type of account is selected according to the configuration.
NOSL	NoSelection	Account is not selected by the customer or a profile, but by the issuer.
TPSL	TypeSelected	Type of account selected in a list.

15.2.3.2 ActionType4Code

Definition: Recommended action for the issuer.

Type: CodeSet

CodeName	Name	Definition
CPTR	CaptureCard	Capture the card.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
RFRL	Referral	Referral has to be performed.
APPV	Approve	Approve the transaction.
BLCK	BlockCard	Block the card.
NDCL	NoReasonForDecline	No reason for declining the transaction.

15.2.3.3 ActionType5Code

Definition: Type of action to be performed.

Type: CodeSet

CodeName	Name	Definition
BUSY	Busy	Server busy, try later.
CPTR	CaptureCard	Capture the card.
DISP	DisplayMessage	Message to display, print or log.
NOVR	ForbidOverride	Payment application cannot propose to the merchant an override of the payment transaction.
RQID	IdentificationRequired	Additional identification required (passport, ID card, etc.).
PINL	PINLastTry	Last PIN (Personal Identification Number) try.
PINR	PINRetry	PIN (Personal Identification Number) is wrong, retry a PIN verification.
PRNT	PrintMessage	Print a message.

CodeName	Name	Definition
RFRL	Referral	Referral has to be performed.
RQDT	RequestData	Request additional data through a displayed text and request confirmation by an attendant.
TRCK	UpdateTrack	Track provided in the response must be updated on the card.

15.2.3.4 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.

15.2.3.5 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.

15.2.3.6 Algorithm11Code

Definition: Identification of a digest algorithm.

Type: CodeSet

CodeName	Name	Definition
HS25	SHA256	Message digest algorithm SHA-256 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha256).
HS38	SHA384	Message digest algorithm SHA-384 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha384).
HS51	SHA512	Message digest algorithm SHA-512 as defined in FIPS 180-1 and 2 - (ASN.1 Object Identifier: id-sha512).
HS01	SHA1	Message digest algorithm SHA-1 as defined in FIPS 180-1 - (ASN.1 Object Identifier: id-sha1).

15.2.3.7 Algorithm12Code

Definition: Cryptographic algorithms for the MAC (Message Authentication Code).

Type: CodeSet

CodeName	Name	Definition
MACC	RetailCBCMAC	Retail CBC (Chaining Block Cypher) MAC (Message Authentication Code) (cf. ISO 9807, ANSI X9.19) - (ASN.1 Object Identifier: id-retail-cbc-mac).
MCCS	RetailSHA256MAC	Retail-CBC-MAC with SHA-256 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-256).
CMA1	SHA256CMACwithAES128	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-256 digest of the message.
MCC1	RetailSHA1MAC	Retail-CBC-MAC with SHA-1 (Secure Hash standard) - (ASN.1 Object Identifier: id-retail-cbc-mac-sha-1).
CMA9	SHA384CMACwithAES192	CMAC (Cipher based Message Authentication Code) defined by the National Institute of Standards and Technology (NIST 800-38B - May 2005), using the block cipher Advanced Encryption Standard with a 192 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard). The CMAC algorithm is computed on the SHA-384 digest of the message.

CodeName	Name	Definition
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.

15.2.3.8 Algorithm13Code

Definition: Cryptographic algorithms for the protection of transported keys.

Type: CodeSet

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
DKP9	DUKPT2009	DUKPT (Derived Unique Key Per Transaction) algorithm, as specified in ANSI X9.24-2009 Annex A.
UKPT	UKPT	UKPT (Unique Key Per Transaction) or Master Session Key key encryption - (ASN.1 Object Identifier: id-ukpt-wrap).
UKA1	UKPTwithAES128	UKPT (Unique Key Per Transaction) or Master Session Key key encryption, using Advanced Encryption Standard with a 128 bits cryptographic key, approved by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

CodeName	Name	Definition
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).

15.2.3.9 Algorithm14Code

Definition: Cryptographic algorithms for digital signatures.

Type: CodeSet

CodeName	Name	Definition
ERS2	SHA256WithRSA	Signature algorithms with RSA, using SHA-256 digest algorithm - (ASN.1 Object Identifier: sha256WithRSAEncryption).
ERS1	SHA1WithRSA	Signature algorithms with RSA (PKCS #1 version 2.1), using SHA-1 digest algorithm - (ASN.1 Object Identifier: sha1WithRSAEncryption).
RPSS	RSASSA-PSS	Signature algorithm with Appendix, Probabilistic Signature Scheme (PKCS #1 version 2.1), - (ASN.1 Object Identifier: id-RSASSA-PSS).

15.2.3.10 Algorithm15Code

Definition: Cryptographic algorithms for encryptions with a symmetric cryptographic key.

Type: CodeSet

CodeName	Name	Definition
EA2C	AES128CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 128 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).
E3DC	DES112CBC	Triple DES (Data Encryption Standard) CBC (Chaining Block Cypher) encryption with double length key (112 Bit) as defined in FIPS PUB 46-3 - (ASN.1 Object Identifier: des-ede3-cbc).
EA9C	AES192CBC	AES (Advanced Encryption Standard) CBC (Chaining Block Cypher) encryption with a 192 bits cryptographic key as defined by the Federal Information Processing Standards (FIPS 197 - November 6, 2001 - Advanced Encryption Standard).

CodeName	Name	Definition
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).

15.2.3.11 Algorithm7Code

Definition: Asymmetric encryption algorithm of a transport key.

Type: CodeSet

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

15.2.3.12 Algorithm8Code

Definition: Mask generator functions of the RSAAES-OAEP encryption algorithm (RSA Encryption Scheme: Optimal Asymmetric Encryption Padding).

Type: CodeSet

CodeName	Name	Definition
MGF1	MGF1	Generator Function, used for RSA encryption and RSA digital signature (PKCS #1 version 2.1) - (ASN.1 Object Identifier: id-mgf1).

15.2.3.13 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.

15.2.3.14 AttributeType1Code

Definition: Type of attribute of a distinguished name (DN).

Type: CodeSet

CodeName	Name	Definition
CNAT	CommonName	Common name of the attribute (ASN.1 Object Identifier: id-at-commonName).
LATT	Locality	Locality of the attribute (ASN.1 Object Identifier: id-at-localityName).
OATT	OrganisationName	Organization name of the attribute (ASN.1 Object Identifier: id-at-organizationName).
OUAT	OrganisationUnitName	Organization unit name of the attribute (ASN.1 Object Identifier: id-at-organizationalUnitName).
CATT	CountryName	Country name of the attribute (ASN.1 Object Identifier: id-at-countryName).

15.2.3.15 AuthenticationEntity2Code

Definition: Entity or device that has performed the verification.

Type: CodeSet

CodeName	Name	Definition
ICCD	ICC	Application in the chip card (Integrated Circuit Card), for instance an offline PIN verification.
AGNT	AuthorisedAgent	Authorisation agent of the issuer.
MERC	Merchant	Merchant (for example signature verification by the attendant).
ACQR	Acquirer	Acquirer of the transaction.
ISSR	Issuer	Card issuer.
TRML	Terminal	Secure application in the terminal.

15.2.3.16 AuthenticationMethod5Code

Definition: Methods used to authenticate a person or a card.

Type: CodeSet

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.

CodeName	Name	Definition
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.
TOKP	PaymentToken	Verification or authentication related to the use of a payment token, for instance the validation of the authorised use of a token.

15.2.3.17 AuthenticationMethod6Code

Definition: Methods used to authenticate a person or a card.

Type: CodeSet

CodeName	Name	Definition
NPIN	OnLinePIN	On-line PIN authentication (Personal Identification Number).
PPSG	PaperSignature	Handwritten paper signature.
PSWD	Password	Authentication by a password.
SCRT	SecureCertificate	Electronic commerce transaction secured with the X.509 certificate of a customer.
SCNL	SecuredChannel	Channel-encrypted transaction.
SNCT	SecureNoCertificate	Secure electronic transaction without cardholder certificate.
CPSG	SignatureCapture	Electronic signature capture (handwritten signature).
ADDB	BillingAddressVerification	Cardholder billing address verification.
BIOM	Biometry	Biometric authentication of the cardholder.
CDHI	CardholderIdentificationData	Cardholder data provided for verification, for instance social security number, driver license number, passport number.

CodeName	Name	Definition
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.

15.2.3.18 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.

15.2.3.19 CardAccountType2Code

Definition: Type of cardholder account used for the transaction.

Type: CodeSet

CodeName	Name	Definition
CTDP	CertificateOfDeposit	Certificate of deposit saving account.
CHCK	Checking	Checking account.

CodeName	Name	Definition
CRDT	CreditCard	Credit card account.
CURR	Current	Current account.
CDBT	DebitCard	Debit card account.
DFLT	Default	Default account.
EPRS	EpurseCard	Electronic purse card account.
HEQL	HomeEquityLoan	Home equity loan credit account.
ISTL	InstalmentLoan	Instalment loan credit account.
INVS	Investment	Investment account.
LCDT	LineOfCredit	Line of credit account.
MBNW	MobilePhoneAccount	Mobile Station Integrated Services Digital Network Number (MSISDN).
MNMK	MoneyMarket	Money market saving account.
MNMC	MoneyMarketChecking	Money market checking account.
MTGL	MortgageLoan	Mortgage loan credit account.
RTRM	RetirementAccount	Retirement account.
RVLV	RevolvingLoanAccount	Revolving loan account.
SVNG	Savings	Savings account.
STBD	StockOrBond	Stock or bond investment account.
UVRL	Universal	Universal account.

15.2.3.20 CardDataReading2Code

Definition: Card reading capabilities of the terminal performing the transaction.

It correspond to the ISO 8583, field number 22-2 for the version 93, and 27-1 for the version 2003.

Type: CodeSet

CodeName	Name	Definition
DFLE	AccountData	Account data on file.
BRCD	BarCode	Bar code.
CDFL	CardOnFile	Card information are stored on a file.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
PHYS	Physical	Keyboard entry or OCR reading of embossing or printed data, either at time of transaction or after the event.

CodeName	Name	Definition
CTLS	ProximityReader	Contactless proximity reader.
TAGC	Tag	Tag reading capabilities (RFID, etc.).
UNKW	Unknown	Unknown card reading capability.

15.2.3.21 CardDataReading3Code

Definition: Card writing capabilities of the terminal performing the transaction.

It correspond to the ISO 8583, field number 22-10 for the version 93, and 27-8_9 for the version 2003.

Type: CodeSet

CodeName	Name	Definition
CDFL	CardOnFile	Card information are stored on a file.
ECTL	EMVProximityReader	Contactless proximity reader, with application conform to the standard EMV (standard initiated by Europay, Mastercard and Visa).
CICC	ICC	ICC (Integrated Circuit Card) with contact containing software applications conform to ISO 7816.
MGST	MagneticStripe	Magnetic stripe.
CTLS	ProximityReader	Contactless proximity reader.

15.2.3.22 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.

15.2.3.23 CardholderVerificationCapability2Code

Definition: Cardholder verification capabilities by the terminal.

It correspond to the ISO 8583, field number 22-2 for the versions 87 and 93, and 27-2 for the version 2003.

Type: CodeSet

CodeName	Name	Definition
APKI	AccountDigitalSignature	Account based digital signature.

CodeName	Name	Definition
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).
UNKW	Unknown	Unknown cardholder verification capability.
NBIO	OnLineBiometrics	Online biometrics.
NOVF	NoCapabilities	No cardholder verification capability.
OTHR	Other	Other cardholder verification capabilities.

15.2.3.24 CardPaymentServiceType3Code

Definition: Additional attributes of the service provided by the card payment transaction.

Type: CodeSet

CodeName	Name	Definition
IRES	InitialReservation	Initial reservation.
URES	UpdateReservation	Update reservation.
PRES	PaymentReservation	Payment after reservation.
ARES	AdditionalPayment	Additional payment after reservation.
FREC	FirstRecurring	Initial recurring payment.
RREC	FollowingRecurring	Repeat recurring payment.

15.2.3.25 CardPaymentServiceType7Code

Definition: Type of transaction being undertaken for the main service.

It correspond partially to the ISO 8583, field number 3.

Type: CodeSet

CodeName	Name	Definition
BALC	Balance	Balance enquiry.
CACT	CardActivation	Card activation.
CRDP	CardPayment	Card payment.
CAFT	CardsFundTransfer	Transfer of funds to and/or from a card account.
CAFL	CardsFundTransferPull	Transfer of funds from a card or an account.
CAFH	CardsFundTransferPush	Transfer of funds to a card or an account.
CAVR	CardVerification	Card verification.
CSHW	CashAdvance	Cash advance or withdrawals on a POI (Point Of Interaction), or at a bank counter.
CSHD	CashDeposit	Cash deposit.
CHWD	CashWithdrawal	Withdrawal of cash on an ATM.
DEFR	DeferredPayment	Deferred payment.
LOAD	Loading	Loading or reloading non-financial account.
ORCR	OriginalCredit	Original credit.
PINC	PINChange	PIN (Personal Identification Number) change.
PINU	PINUnblock	Unblock the cardholder PIN.
QUCH	QuasiCash	Quasi-cash.
RFND	Refund	Refund transaction.
RESA	Reservation	Reservation (pre-authorisation).
UNLD	Unloading	Unloading non-financial account.
VALC	ValidityCheck	Card validity check.
DADJ	DebitAdjustment	Debit adjustment to a previous transaction.
CADJ	CreditAdjustment	Credit adjustment to a previous transaction.

15.2.3.26 CardPaymentServiceType8Code

Definition: Main card service transaction.

Type: CodeSet

CodeName	Name	Definition
AGGR	Aggregation	Aggregation of low payments.
CSHB	CashBack	Card payment with cash-back.
CSWD	ChosenWithdrawal	Amount and notes values are chosen by the customer.

CodeName	Name	Definition
DCCV	DCC	Dynamic currency conversion (DCC).
GRTT	Gratuity	Card payment with gratuity.
INSA	AcceptorInstalment	Instalment payment transaction performed by the acceptor or the acquirer.
INSI	IssuerInstalment	Instalment payment transaction performed by the card issuer.
LOYT	Loyalty	Loyalty services.
NRES	NoShow	No show after reservation.
AUWS	PreAuthorisedWithdrawal	Withdrawal transaction was pre-authorised by another channel (amount could be absent).
PFWD	ProfileWithdrawal	Amount and Notes Values are pre-defined by the customer profile.
PUCO	PurchaseCorporate	Purchase and corporate data.
RECP	RecurringPayment	Recurring payment.
SOAF	SolicitedAvailableFunds	Solicited available funds.
SDWD	StandardWithdrawal	Customer pressed a button associated with a withdrawal of unique amount and notes mix.
VCAU	VoiceAuthorisation	Voice authorisation.
NRFD	NonRefundable	Payment of goods or services which are not refundable, for instance low cost airline tickets.
INST	Instant	Instant transaction

15.2.3.27 CardProductType1Code

Definition: Type of card product.

Type: CodeSet

CodeName	Name	Definition
COMM	CommercialCard	Cards issued as a means of business expenditure, for instance business card or corporate card. The user could be a company, an individual for business expenses or a self employed for business purposes.
CONS	ConsumerCard	Cards issued as a means of personal expenditure. The user is always an individual.

15.2.3.28 CardServiceType1Code

Definition: Type of reconciliation.

Type: CodeSet

CodeName	Name	Definition
PART	CheckPoint	Partial reconciliation of the day.
FINL	Final	Final reconciliation.
PRVS	TotalInquiry	Request for totals of a previous reconciliation.

15.2.3.29 CardServiceType2Code

Definition: Type of network management service (correspond to the ISO 8583 field 24).

Type: CodeSet

CodeName	Name	Definition
SFDS	DisableStoreForward	Close communication at application level to stop store and forward process.
ECHO	EchoTest	Detection whether communication at application level is still active.
SFEN	EnableStoreForward	Establish communication at application level to start store and forward process.
SGNF	SignOff	Terminate communication at application level.
SGNN	SignOn	Establish communication at application level.

15.2.3.30 CardServiceType3Code

Definition: Type of key exchange.

Type: CodeSet

CodeName	Name	Definition
KYDL	DeliverKey	Deliver the key to be change by the receiver.
KYCG	KeyChange	Request the keys that the receiver must send in the response.
KYVF	KeyVerification	Request the receiver to verify the key check value.

15.2.3.31 CardTransactionRiskReason1Code

Definition: Reason to indicate a certain level of risk for the transaction.

Type: CodeSet

CodeName	Name	Definition
APDP	ApproveDeclinePattern	Suspicious approve or decline pattern.
APDL	ApproveDeclineSequence	Suspicious sequence of approve and decline messages.
ATHA	AuthorizationActivity	Suspicious authorization activity.
CRDC	CompromisedCard	Compromised card.

CodeName	Name	Definition
ECMA	EcommerceActivity	Suspicious electronic commerce activity.
EXCD	ExpiryDateMismatch	Expiry date mismatch.
FGNA	ForeignActivity	Suspicious foreign activity.
GEOA	GeographicActivity	Suspicious geographic activity.
MCCH	HighRiskMCC	High Risk MCC (Merchant Category Code).
KEYA	ManualEntryActivity	Suspicious manual card data entry mode.
MCCA	MerchantCategoryActivity	Suspicious MCC (Merchant Category Code) activity.
AMNT	SuspiciousAmount	Suspicious amount.
CRDF	SuspiciousFraudulentCardholder	Suspicious fraudulent cardholder.
MRCF	SuspiciousFraudulentMerchant	Suspicious fraudulent merchant.
TXCA	TransactionCumulativeAmount	Suspicious transaction cumulated amount at merchant.
TXNB	TransactionNumber	Suspicious transaction number at merchant.
TXTM	TransactionTime	Suspicious transaction time.
TMIN	TransactionTimeInterval	Suspicious transaction time interval.
TXTP	TransactionType	Suspicious transaction type.
UATA	UnattendedActivity	Suspicious unattended terminal activity.

15.2.3.32 ContentType2Code

Definition: Identification of the type of a Cryptographic Message Syntax (CMS) data structure.

Type: CodeSet

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

15.2.3.33 CountryCode

Definition: Code to identify a country, a dependency, or another area of particular geopolitical interest, on the basis of country names obtained from the United Nations (ISO 3166, Alpha-2 code).

Type: CodeSet

Format

pattern [A-Z]{2,2}

Constraints

- **Country**

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

15.2.3.34 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).

15.2.3.35 CurrencyCode

Definition: Code allocated to a currency, by a maintenance agency, under an international identification scheme as described in the latest edition of the international standard ISO 4217 "Codes for the representation of currencies and funds". Valid currency codes are registered with the ISO 4217 Maintenance Agency, and consist of three contiguous letters.

Type: CodeSet

Format

pattern [A-Z]{3,3}

Constraints

- **ValidationByTable**

15.2.3.36 EncryptionFormat1Code

Definition: Format of data before encryption, if the format is not plaintext or implicit.

Type: CodeSet

CodeName	Name	Definition
TR31	TR31	Format of a cryptographic key specified by the ANSI X9 TR-31 standard.
TR34	TR34	Format of a cryptographic key specified by the ANSI X9 TR-34 standard.

15.2.3.37 Frequency3Code

Definition: Specifies the regularity of an event.

Type: CodeSet

CodeName	Name	Definition
YEAR	Annual	Event takes place every year or once a year.
MNTH	Monthly	Event takes place every month or once a month.
QURT	Quarterly	Event takes place every three months or four times a year.
MIAN	SemiAnnual	Event takes place every six months or two times a year.
WEEK	Weekly	Event takes place once a week.
DAIL	Daily	Event takes place every day.
TEND	TenDays	Event takes place every ten business days.

15.2.3.38 InstalmentPlan1Code

Definition: Type of instalment plan.

Type: CodeSet

CodeName	Name	Definition
EQPM	EqualPayment	The payment is split in several instalments of equal amounts.
NQPM	InequalPayment	The payment is split in several instalments of different amounts.
DFRI	DeferredInstalment	The first instalment is deferred.

15.2.3.39 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}

15.2.3.40 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.

15.2.3.41 LanguageCode

Definition: Specifies a language.

Type: CodeSet

Constraints

- **ValidationByTable**

15.2.3.42 LocationCategory2Code

Definition: Location category of the place where the transaction is actually performed.

It correspond partially to the ISO 8583:1993, field number 22-4.

Type: CodeSet

CodeName	Name	Definition
ABRD	Aboard	Aboard a bus, train, ship, airplane, taxi, etc.
FIXD	Fixed	Fixed location, for example in a shop.
HOME	Home	Customer home.
NMDC	Nomadic	Nomadic location.

15.2.3.43 MessageFunction6Code

Definition: Identifies the type of process related to the message. It partially correspond to the message type identifier (MTI) of ISO 8583.

Type: CodeSet

CodeName	Name	Definition
RCAV	AcquirerReconciliationAdvice	Advice of transaction totals from an acquirer.
RCAN	AcquirerReconciliationNotification	Notification of transaction totals from an acquirer.
RCAQ	AcquirerReconciliationRequest	Request of transaction totals exchange from an acquirer.
REJA	AcquirerReject	Reject of a message by an acquirer.
REVV	AcquirerReversalAdvice	Reversal advice of an authorisation or a financial message.
REVN	AcquirerReversalNotification	Reversal notification of an authorisation or a financial message.
REVQ	AcquirerReversalRequest	Reversal request of an authorisation or a financial message.
RCPV	AgentReconciliationAdvice	Advice of transaction totals from a processor.
RCPN	AgentReconciliationNotification	Notification of transaction totals from a processor.
RCPQ	AgentReconciliationRequest	Request of transaction totals exchange from a processor.
REJP	AgentReject	Reject of a message by an agent.
AUTV	AuthorisationAdvice	Initiator of the message advises the recipient about the result of an authorisation already performed.

CodeName	Name	Definition
AUTN	AuthorisationNotification	Information about an authorisation.
AUTQ	AuthorisationRequest	The initiator requests an authorisation without financial impact to complete the transaction.
AUTP	AuthorisationResponse	Response for authorisation without financial capture.
FNCV	FinancialAdvice	Initiator of the message advises the receptor that an authorisation has been successfully delivered or completed with a final amount, and requests the clearing of the transaction.
FNCN	FinancialNotification	Initiator requests the clearing of the transaction.
FNCQ	FinancialRequest	Initiator of the message requests both the authorisation and the clearing of the transaction.
RCIV	IssuerReconciliationAdvice	Advice of transaction totals from an issuer.
RCIN	IssuerReconciliationNotification	Notification of transaction totals from an issuer.
RCIQ	IssuerReconciliationRequest	Request of transaction totals exchange from an issuer.
REJI	IssuerReject	Reject of a message by an issuer.
KEYV	KeyExchangeAdvice	Advise of a performed key update.
KEYQ	KeyExchangeRequest	Request of a key exchange.
MGTV	NetworkManagementAdvice	Advise of a performed network management service.
MGTQ	NetworkManagementRequest	Request of a network management service.

15.2.3.44 MessageReason1Code

Definition: Reason to send an card acquirer to issuer message.

It corresponds to ISO 8583, field number 25 for the version 93, and 9 for the version 2003.

Type: CodeSet

CodeName	Name	Definition
ASTD	AcquirerStandin	Stand-in processing at the acquirer's option.
AMNT	AmountInconsistency	Amount inconsistent between request and response.
ASPC	CardAcceptorSuspicious	Card acceptor forced to be online.
CDCL	CardDeclined	Integrated circuit card declines the transaction after the authorisation.
COFF	CardProcessed	Transaction performed offline by the card.

CodeName	Name	Definition
CRND	CardRandomSelection	Random online decided by the card.
CRTN	CardRetained	Card left by the cardholder.
CUNB	CardUnableToProcess	Card cannot process offline the transaction.
CCAN	CustomerCancel	Customer cancellation, for example removing the chip card after sending the authorisation, but before the end of the transaction.
KDAC	DeactivatedKey	Deactivated key must be replaced.
ERRP	ErrorInResponse	Response message was invalid (for example a problem of format or security).
FLRL	FloorLimit	Transaction above or under the floor limit.
IDPS	InconsistentDeposit	Inconsistency between the items deposited and their declared value.
KINV	InvalidVerification	Verification of the key has failed.
ISGN	IssuerSignedOff	Issuer signed off.
ISTD	IssuerStandin	Stand-in processing at the issuer's option.
ITIM	IssuerTimeout	Issuer timed out on request.
IUNV	IssuerUnavailable	Issuer unavailable.
ENDK	LifeCycleEnd	End of key life cycle.
MLFC	Malfunction	Suspected malfunction (for example card reader defect, or printer out of order).
FDCL	OfflineDeclined	Offline authorisation declined the transaction.
NDCL	OnLineDeclined	Online authorisation declined the transaction.
FORC	OnlineForced	Forced online by card acceptor, terminal, card, or the issuer.
KSYN	OutOfSynchronisation	Keys not synchronised.
UDSP	UncompleteDispense	Cardholder did not take the presented items.
USND	UnableToSend	Unable to send the message.
UCMP	UnableToComplete	Card acceptor device unable to complete transaction after the authorisation response (for example, the written signature invalid).
LATE	TooLateResponse	Response to the authorisation received too late.
TIMO	TimeOut	Waiting for response from the receiver, or no response was received (for example connection release before receiving the response).

CodeName	Name	Definition
TUNB	TerminalUnableToProcess	Terminal cannot process offline the transaction.
TRND	TerminalRandomSelection	Random online decided by the terminal.
TOFF	TerminalProcessed	Transaction performed offline by the terminal.
SUSP	SuspectedFraud	Card transaction failed because the merchant suspected a fraud.
KSEC	SecurityReason	Security reasons.
RUNV	ReceiverUnavailable	Receiver unavailable.
RTIM	ReceiverTimeout	Receiver timed out on request.
RSTD	ReceiverStandin	Stand-in processing at the receiver's option.
RSGN	ReceiverSignedOff	Receiver signed off.
PART	PartiallyCompleted	Partial reversal.

15.2.3.45 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.

15.2.3.46 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.

15.2.3.47 PartyType10Code

Definition: Type of identified entity.

Type: CodeSet

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ACQR	Acquirer	Entity acquiring card transactions.
ATMG	ATMManager	Entity managing the ATM.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
HSTG	HostingEntity	Entity hosting the ATM.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
OATM	OriginatingATM	ATM initiating the transaction.
OPOI	OriginatingPOI	Point Of Interaction initiating the card payment transaction.

15.2.3.48 PartyType11Code

Definition: Type of entity.

Type: CodeSet

CodeName	Name	Definition
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
OTRM	OriginatingTerminal	Application on the terminal which has initiated the transaction.
ICCA	CardApplication	Application in the smart card.

15.2.3.49 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.

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.
DLIS	DelegatIssuer	Party to whom the card issuer delegates to authorise card payment transactions.

15.2.3.50 PartyType4Code

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

Type: CodeSet

CodeName	Name	Definition
MERC	Merchant	Merchant providing goods and service in the card payment transaction.
ACCP	Acceptor	Card acceptor, party accepting the card and presenting transaction data to the acquirer.
ITAG	IntermediaryAgent	Party acting on behalf of other parties to process or forward data to other parties.
ACQR	Acquirer	Entity acquiring card transactions.
CISS	CardIssuer	Party that issues cards.
TAXH	TaxAuthority	Tax authority.

15.2.3.51 PartyType9Code

Definition: Type of entity.

Type: CodeSet

CodeName	Name	Definition
ACQR	Acquirer	Entity acquiring card transactions.
ACQP	AcquirerProcessor	Entity providing acquiring card payment processing services on behalf on an acquirer.
CISS	CardIssuer	Party that issues cards.
CISP	CardIssuerProcessor	Entity providing issuing card payment processing services on behalf on an issuer.
CSCH	CardScheme	Entity defining rules and procedures for card payment transactions acting as an intermediary between an acquirer and an issuer.

CodeName	Name	Definition
SCHP	CardSchemeProcessor	Entity providing card payment processing services acting on behalf of a card scheme.

15.2.3.52 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.

15.2.3.53 RejectReason1Code

Definition: Reason of transmission of a rejection message in response to a request or an advice.

Type: CodeSet

CodeName	Name	Definition
UNPR	UnableToProcess	Not possible to process the message, for instance the security module is unavailable, the hardware is unavailable, or there is a problem of resource.
IMSG	InvalidMessage	Invalid envelope of the message.
PARS	ParsingError	Invalid message: At least one of the data element or data structure is not present , the format, or the content of one data element or one data structure is not correct.
SECU	Security	Security error (for example an invalid key or an incorrect MAC value).
INTP	InitiatingParty	Invalid identification data for the sender.
RCPP	RecipientParty	Invalid identification data for the the receiver.

CodeName	Name	Definition
DPMG	DuplicateMessage	Duplicate message, the identification of the exchange is the same than a previous message.
VERS	ProtocolVersion	Version of the protocol couldn't be supported by the recipient.
MSGT	MessageType	Type of message the recipient receives is unknow or unsupported.

15.2.3.54 Response3Code

Definition: Result of the request message or advice message.

Type: CodeSet

CodeName	Name	Definition
APPR	Approved	Service has been successfully provided.
DECL	Declined	Service is declined.
FRTH	FurtherAction	Further action required to complete the transaction, for instance a referral.
PART	PartialApproved	Service has been partialy provided.
PRCS	Processed	Advice message is processed.
UNPR	NotProcessed	Advice message could not be processed.

15.2.3.55 ResultDetail1Code

Definition: Detail of the result.

Type: CodeSet

CodeName	Name	Definition
ACTF	AccountNotFound	Account of the cardholder or the customer is not found.
ACQS	AcquirerNotSupported	Acquirer is not supported.
AMLV	AMLValidation	Error on AML (Anti Money Laundering) validation.
AMTA	AmountNotFound	Amount not found.
BANK	BankNotFound	Bank not found.
CRDR	CardError	Card error, for instance invalid ARQC (Authorisation ReQuest Cryptogram).
CRDF	CardVerificationFailed	Identification of the card is invalid.
CSHI	CashbackNotAllowed	Cashback is not permitted.
CSHE	CashbackAmountExceeded	Cashback amount is higher than permitted.
ACTC	ClosedAccount	Account is no more usable for the transaction.

CodeName	Name	Definition
CTVG	CutoverInProgress	Cutover is in progress, transaction could not be processed.
DBER	DatabaseError	Database access error.
FEES	DisputedFees	Transaction fees are disputed by the issuer.
TXNL	ExceededTransactionLifeCycle	Validity period of the transaction is exceeded.
CRDX	ExpiredCard	Card has expired.
FMTR	FormatError	Invalid format of the message or its content.
ACEF	FromAccountError	From account status error.
TXNG	InProgress	Original request is in progress.
FNDI	InsufficientFunds	Account balance is not sufficient.
ACPI	InvalidAcceptor	Issuer denies the acceptor.
AMTI	InvalidAmount	Requested amount is outside the card limits, or the currency is invalid.
CHDI	InvalidCardholderIdentification	Identification of the cardholder or the customer does not match.
CRDI	InvalidCardNumber	Identification of the card is invalid.
CTFV	InvalidCertificate	Digital certificate cannot be authenticated, is expired or revoked.
NPRA	NotPermittedToAcceptor	Process not permitted to the acceptor (for example fall back).
PINA	NotAbleToValidatePIN	PIN could not be validated.
LBLU	NoLiabilityAccepted	Transaction is processed, but liability is not accepted.
CRDA	NoCardRecord	No card file record.
PINN	NewPINInvalid	New PIN is invalid (PIN change).
MACK	MACKeyError	MAC key error.
MACR	MACError	MAC error.
CRDL	LostCard	Card has been declared lost.
LBLA	LiabilityAccepted	Transaction is processed and liability is accepted.
ISSU	IssuerUnavailable	Transaction could not be processed as Issuer is unavailable.
ISST	IssuerTimeOut	Transaction could not be processed as Issuer times out.
ISSO	IssuerSignedOff	Transaction could not be processed as Issuer is signed off.
ISSF	IssuerNotFound	Issuer is not found.
ISSP	IssuerInoperative	Issuer is inoperative.

CodeName	Name	Definition
DATI	InvalidTransactionDateTime	Date time of the transaction is invalid.
TXNV	InvalidTransaction	Transaction is invalid.
TKID	InvalidTokenIdentification	Identification of the token provider or the token requestor is invalid.
TKKO	InvalidToken	Token cannot be used to surrogate a PAN (Primary Account Number).
CSCV	InvalidSecurityCode	Security code validation fails.
PINV	InvalidPIN	PIN is invalid.
AMTO	InvalidOriginalAmount	Original amount is invalid.
NPRC	NotPermittedToCardholder	Transaction not permitted to the cardholder or the customer.
OFFL	OffLineProcess	Transaction has been processed offline by the terminal.
ONLP	OffLineProcessAfterReferral	Transaction has been processed offline after referral.
TXNM	OriginalDoesNotMatch	Original is found, but transaction does not match.
OTHR	OtherError	Other error.
BALO	OutOfBalance	Out of balance.
SEQO	OutOfSequence	Message is out of sequence.
AMTL	PaymentAmountLimit	Amount of payment transactions exceeds card limit.
NMBL	PaymentNumberLimit	Number of payment transactions exceeds card limit.
PINC	PINChangeRequired	Cardholder must change the PIN to be able to perform the transaction.
PIND	PINDataRequired	Additional information are required to verify the PIN.
PINE	PINEncryptionError	Decrypted PIN block is invalid.
PINS	PINSecurityError	PIN length or PIN key is invalid.
PINX	PINTriesExceeded	Last attempt of the PIN verification fails.
QMAX	QueueMaximumExceeded	Store and forward queue maximum exceeded.
RECD	RecurringDataError	Recurring Error on Data.
CRDT	RestrictedCard	Requested service not allowed by the card.
SECV	SecurityViolation	Security violation, for instance invalid ARPC (Authorisation ResPonse Cryptogram).
SFWE	SoftwareOrHardwareError	Security software or hardware error.
SPCC	SpecialConditions	Special card conditions not respected.

CodeName	Name	Definition
CRDW	WrongCard	Other card used for the original transaction.
NMBW	WithdrawalNumberLimit	Number of withdrawal transactions exceeds card limit.
AMTW	WithdrawalAmountLimit	Amount of withdrawal transactions exceeds card limit.
VNDF	VendorNotFound	Vendor not found.
VNDR	VendorFormatError	Vendor format has an error.
SVSU	UnsupportedService	Requested service not supported.
CRDU	UneffectiveCard	Card is not active yet.
CMKY	UnavailablecommunicationKey	Communication keys are not available.
UNBC	UnacceptableCurrency	Currency is unacceptable for the Issuer or the processor.
UNBP	UnableToProcessOffLine	Transaction cannot be processed offline.
UNBO	UnableToGoOnLine	Transaction cannot be processed online by the terminal.
ORGF	UnableToFindOriginal	Transaction could not be processed as original is not found.
TXND	TransactionDuplicate	Transaction identification already used for another transaction.
TXNU	TransactionDidNotComplete	Transaction did not complete at the terminal.
TTLV	TotalsNotAvailable	Totals are not available.
ACTT	ToAccountError	To account status error.
SYSM	SystemMalfunction	System Malfunction.
SYSP	SystemInoperative	Processing temporary not available.
FRDS	SuspectedFraud	Fraudulent transaction is suspected by the issuer or the processor.
CNTC	SuspectedCounterfeitCard	Counterfeit card suspected by the issuer or the processor.
SRCH	SurchargeNotPermitted	Surcharging is not permitted.
CRDS	StolenCard	Card has been declared stolen.
ACKO	AcknowledgementOnly	Message is acknowledged only without processing the service, for instance the reconciliation is not performed, acknowledged only.

15.2.3.56 SupportedPaymentOption1Code

Definition: Specifies the options supported for a payment transaction.

Type: CodeSet

CodeName	Name	Definition
PART	PartialApproval	The entity supports a partial approval of the payment transaction.
MSRV	PaymentApprovalOnly	The entity supports the approval of the payment service along with the decline of additional requested services (as cash-back).

15.2.3.57 TransactionChannel3Code

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.

15.2.3.58 TransactionEnvironment2Code

Definition: Indicates the environment of the transaction location.

Type: CodeSet

CodeName	Name	Definition
PRIV	Private	Private environment.
PUBL	Public	Public environment.

15.2.3.59 TransactionEnvironment3Code

Definition: Indicates the entity hosting the terminal performing the transaction.

Type: CodeSet

CodeName	Name	Definition
BRCH	Branch	Bank environment.
MERC	Merchant	Merchant environment.
OTHR	Other	Other environments, for instance a mall or an airport.

15.2.3.60 TypeOfAmount1Code

Definition: Qualifies the amount associated with the transaction.

Type: CodeSet

CodeName	Name	Definition
ACTL	Actual	Actual amount.
ESTM	Estimated	Estimated amount (the final amount could be above or below).
MAXI	Maximum	Maximum amount (the final amount must be less or equal).
DFLT	Default	Default amount.
RPLT	Replacement	Replacement amount.

15.2.3.61 TypeOfAmount5Code

Definition: Type or class of amount.

Type: CodeSet

CodeName	Name	Definition
CSHB	Cashback	Cash-back amount.
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
GRTY	Gratuity	Gratuity amount.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMM	Commission	Commission, for example for DCC (Dynamic Currency Conversion) transactions.
DONN	Donation	Donation amount.
TAXT	Tax	Taxes applicable to the transaction.

15.2.3.62 TypeOfAmount6Code

Definition: Type or class of amount.

Type: CodeSet

CodeName	Name	Definition
ATMF	ATMCommissionFee	Commission that the issuer will charge to the cardholder, which should be shown and accepted by the cardholder before the money is disbursed.
AMTH	AuthorisedAmount	Transaction amount that has been authorised.
CRDB	CardRemainingBalance	Remaining allowed amount for this type of transaction with this card, after the transaction, until the end of the card limit period.

CodeName	Name	Definition
DCNT	Discount	Discount, rebate or voucher, related to loyalty programs. This amount is counted as a negative amount.
FEES	Fees	Fees.
AMTX	MaximumAllowedAmount	Maximum amount allowed for the transaction in the transaction amount currency if the transaction amount of the request was declined.
AMTN	MinimumAllowedAmount	Minimum amount allowed in the TransactionAmount currency if the transaction amount of the request was declined.
AMTQ	RequestedAmount	Transaction amount that has been requested to be authorised.
SRCH	Surcharge	Extra fee for a purchase or a withdrawal.
VATX	ValueAddedTax	Value added tax amount.
COMI	IssuerCommission	Commission from the card issuer.
FEEI	IssuerFees	Fees amount from the card issuer.

15.2.3.63 TypeOfAmount7Code

Definition: Type or class of amount.

Type: CodeSet

CodeName	Name	Definition
FEES	Fees	Fees.
FEEI	IssuerFees	Fees amount from the card issuer.
FEEH	InterchangeFees	Interchange fees.
FEEP	ProcessingFees	Processing fees.
FEEA	InternationalServiceAssessmentFees	International service assessment fees.

15.2.3.64 UserInterface1Code

Definition: Type of user interface to display or print information.

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.

15.2.3.65 UserInterface3Code

Definition: Destination of the message.

Type: CodeSet

CodeName	Name	Definition
ACQU	Acquirer	Acquirer.
AGNT	Agent	Agent.
ISSR	Issuer	Issuer.

15.2.3.66 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.

15.2.3.67 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.

15.2.4 Date

15.2.4.1 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

15.2.5 DateTime

15.2.5.1 ISODateTime

Definition: A particular point in the progression of time defined by a mandatory date and a mandatory time component, expressed in either UTC time format (YYYY-MM-DDThh:mm:ss.sssZ), local time with UTC offset format (YYYY-MM-DDThh:mm:ss.sss+/-hh:mm), or local time format (YYYY-MM-DDThh:mm:ss.sss). These representations are defined in "XML Schema Part 2: Datatypes Second Edition - W3C Recommendation 28 October 2004" which is aligned with ISO 8601.

Note on the time format:

1) beginning / end of calendar day

00:00:00 = the beginning of a calendar day

24:00:00 = the end of a calendar day

2) fractions of second in time format

Decimal fractions of seconds may be included. In this case, the involved parties shall agree on the maximum number of digits that are allowed.

Type: DateTime

15.2.6 IdentifierSet

15.2.6.1 AnyBICIdentifier

Definition: Code allocated to a financial or non-financial institution by the ISO 9362 Registration Authority, as described in ISO 9362 "Banking - Banking telecommunication messages - Business identifier code (BIC)".

Type: IdentifierSet

Identification scheme: SWIFT; AnyBICIdentifier

Format

pattern [A-Z]{6,6}[A-Z2-9][A-NP-Z0-9]([A-Z0-9]{3,3}){0,1}

Constraints

- **AnyBIC**

Only a valid Business identifier code is allowed. Business identifier codes for financial or non-financial institutions are registered by the ISO 9362 Registration Authority in the BIC directory, and consists of eight (8) or eleven (11) contiguous characters.

15.2.6.2 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}

15.2.6.3 IBANIdentifier

Definition: An identifier used internationally by financial institutions to uniquely identify the account of a customer at a financial institution, as described in the latest edition of the international standard ISO 13616. "Banking and related financial services - International Bank Account Number (IBAN)".

Type: IdentifierSet

Identification scheme: National Banking Association; International Bank Account Number (ISO 13616)

Format

pattern [a-zA-Z]{2,2}[0-9]{2,2}[a-zA-Z0-9]{1,30}

Constraints

- **IBAN**

A valid IBAN consists of all three of the following components: Country Code, check digits and BBAN.

15.2.6.4 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}

15.2.7 Indicator**15.2.7.1 PlusOrMinusIndicator**

Definition: Indicates a positive or negative value.

Type: Indicator

Meaning When True: Plus

Meaning When False: Minus

15.2.7.2 TrueFalseIndicator

Definition: A flag indicating a True or False value.

Type: Indicator

Meaning When True: True

Meaning When False: False

15.2.8 Quantity

15.2.8.1 Number

Definition: Number of objects represented as an integer.

Type: Quantity

Format

totalDigits	18
fractionDigits	0

15.2.9 Rate

15.2.9.1 BaseOneRate

Definition: Rate expressed as a decimal, eg, 0.7 is 7/10 and 70%.

Type: Rate

Format

totalDigits	11
fractionDigits	10
baseValue	1.0

15.2.10 Text

15.2.10.1 Exact1NumericText

Definition: Specifies a numeric string with an exact length of 1 digit.

Type: Text

Format

pattern	[0-9]
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15.2.10.2 Exact3AlphaNumericText

Definition: Specifies an alphanumeric string with a length of exact 3 characters.

Type: Text

Format

pattern	[a-zA-Z0-9]{3}
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15.2.10.3 Exact3NumericText

Definition: Specifies a numeric string with an exact length of 3 digits.

Type: Text

Format

pattern	[0-9]{3}
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15.2.10.4 Max10Text

Definition: Specifies a character string with a maximum length of 10 characters.

Type: Text

Format

minLength	1
maxLength	10

15.2.10.5 Max140Text

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

Type: Text

Format

minLength	1
maxLength	140

15.2.10.6 Max15NumericText

Definition: Specifies a numeric string with a maximum length of 15 digits.

Type: Text

Format

pattern	[0-9]{1,15}
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15.2.10.7 Max16Text

Definition: Specifies a character string with a maximum length of 16 characters.

Type: Text

Format

minLength	1
maxLength	16

15.2.10.8 Max20000Text

Definition: Specifies a character string with a maximum length of 20,000 characters.

Type: Text

Format

minLength	1
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maxLength	20000
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15.2.10.9 Max256Text

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

Type: Text

Format

minLength	1
maxLength	256

15.2.10.10 Max2NumericText

Definition: Specifies a numeric string with a maximum length of 2 digits.

Type: Text

Format

pattern	[0-9]{1,2}
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15.2.10.11 Max30Text

Definition: Specifies a character string with a maximum length of 30 characters.

Type: Text

Format

maxLength	30
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15.2.10.12 Max35NumericText

Definition: Specifies a numeric string with a maximum length of 35 digits.

Type: Text

Format

pattern	[0-9]{1,35}
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15.2.10.13 Max35Text

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

Type: Text

Format

minLength	1
maxLength	35

15.2.10.14 Max3NumericText

Definition: Specifies a numeric string with a maximum length of 3 digits.

Type: Text

Format

pattern	[0-9]{1,3}
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15.2.10.15 Max3Text

Definition: Specifies a character string with a maximum length of 3 characters.

Type: Text

Format

minLength	1
maxLength	3

15.2.10.16 Max45Text

Definition: Specifies a character string with a maximum length of 45 characters.

Type: Text

Format

minLength	1
maxLength	45

15.2.10.17 Max500Text

Definition: Specifies a character string with a maximum length of 500 characters.

Type: Text

Format

minLength	1
maxLength	500

15.2.10.18 Max5NumericText

Definition: Specifies a numeric string with a maximum length of 5 digits.

Type: Text

Format

pattern	[0-9]{1,5}
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15.2.10.19 Max6Text

Definition: Specifies a character string with a maximum length of 6 characters.

Type: Text

Format

minLength	1
maxLength	6

15.2.10.20 Max70Text

Definition: Specifies a character string with a maximum length of 70characters.

Type: Text

Format

minLength	1
maxLength	70

15.2.10.21 Min2Max3AlphaText

Definition: Specifies an alpha string with a minimum length of 2 characters and a maximum length of 3 characters.

Type: Text

Format

pattern	[a-zA-Z]{2,3}
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15.2.10.22 Min2Max3NumericText

Definition: Specifies a numeric string with a minimum length of 2 digits, and a maximum length of 3 digits.

Type: Text

Format

pattern	[0-9]{2,3}
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15.2.10.23 Min3Max4NumericText

Definition: Specifies a numeric string with a minimum length of 3 digits, and a maximum length of 4 digits.

Type: Text

Format

pattern	[0-9]{3,4}
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15.2.10.24 Min6Max8Text

Definition: Specifies a character string with a minimum length of 6 characters, and a maximum length of 8 characters.

Type: Text

Format

minLength	6
maxLength	8

15.2.10.25 Min8Max28NumericText

Definition: Specifies a numeric string with a minimum length of 8 digits, and a maximum length of 28 digits.

Type: Text

Format

pattern	[0-9]{8,28}
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15.2.10.26 PhoneNumber

Definition: The collection of information which identifies a specific phone or FAX number as defined by telecom services.

It consists of a "+" followed by the country code (from 1 to 3 characters) then a "-" and finally, any combination of numbers, "(", ")", "+ and "-" (up to 30 characters).

Type: Text

Format

pattern	\+[0-9]{1,3}-[0-9()+\-]{1,30}
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