Nasdaq Calypso

MX Payment Messages

Version 18

Revision 12.0

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Approved

Document History

Revision	Published	Summary of Changes
1.0	February 2024	First revision for version 18.
2.0	March 2024	Updates for version 18 monthly release.
3.0	April 2024	Updates for version 18 monthly release.
4.0	May 2024	Updates for version 18 monthly release - Updates to Manual SDI logic.
5.0	June 2024	Updates for version 18 monthly release - Updates made related to SDI attribute "CAMT057TagsunderNtfctn". Added support for generation of camt.107 CBPR.
6.0	July 2024	Updates for version 18 monthly release - Added support for generation of sese.020 ECMS. Also added CategoryPurpose and CategoryCode for CBPR and and optional tag SchmeNm.
7.0	August 2024	Updates for version 18 monthly release - Added Settlement Time Request tag and InstrforCdtrAgt.
8.0	September 2024	Updates for version 18 monthly release - SIX 2024 Platform Release 4.11 and TARGET2 changes.
9.0	October 2024	Updates for version 18 monthly release - Updates to MX Payment Messages Generation.
10.0	December 2024	Updates for version 18 monthly release - Updates to INC_ADMI007.
11.0	February 2025	Updates for version 18 monthly release - Added CHAPS 2025 May enhanced data update section and details on handling custom MX templates.
12.0	March 2025	Updates for version 18 monthly release - Removed CASH_USE_LEI_FOR_ SWIFTMX dependency.

This document describes the setup requirements to generate and integrate MX payment messages.

MX payment messages are part of the BO Messaging module.

Table of Contents

1. MX Payment Messages Generation

▶ For the list of supported messages, please refer to Calypso Swift Messages documentation.

MX payment messages are generated by the Message engine based on Message Setup Configurations.

▶ For information on integrating MX Payment Messages, see MX Payment Messages Integration.

▶ For information on integrating camt.053, camt.054 messages, please refer to Calypso Cash Management documentation - Integrating Payment Messages and Statements".

1.1 Setup Requirements

1.1.1 Access Permissions

The following access permissions are required.

Outgoing Message Identifier Config

Create/Update: AddModifyOutgoingMessageIdentifier

Remove: RemoveOutgoingMessageIdentifier

Incoming Linked Message Identifier Config

Create/Update: AddModifyIncomingLinkedMessageIdentifier

Remove: RemoveIncomingLinkedMessageIdentifier

ISO 20022 External Code

Create/Update: AddModifyISO20022ExternalCode

Remove: RemoveISO20022ExternalCode

1.1.2 Environment Property

When environment property VALIDATE_MX_FORMAT = true, the Sender engine blocks an MX message if there is an XSD validation error and creates an exception task.

1.1.3 Agent Legal Entities

Member ID and Clearing System

The following legal entity attributes are used to populate tags: ClrSysId/Cd and ClrSysMmbId/MmbId.

<jurisdiction>ClrSysID_Code - Clearing system identification code

<jurisdiction>MmbId_ID - Clearing system member ID

They are currently used for message templates for the APN (pacs.009 messages), CHAPS, SIX and TARGET2 jurisdictions. For tags like Instructing Agent (InstgAgt) and Instructed Agent (InstdAgt), they allow sending the clearing member id instead of BIC information. Other jurisdictions expect BIC information instead.

Whenever member id information is used, it takes priority over BIC information, if both are present for a specific legal entity. If these LE attributes are not populated for a specific legal entity, then BIC information is populated like other jurisdictions.

Example:

SIXClrSysID_Code (Value of attribute should be populated with CHSIC as expected by SIX)

SIXMmbId_ID (Value of attribute should be populated with member identification assigned by SIX)

In order to populate ClrSysID_Code and MmbId_ID in payment messages for CBPR jurisdiction add :-

* SDI Attribute in CP SDI "ClearingSystem" - This can have any value eg: CHIPS, FEDWIRE etc.
* LE attributes in Counterparty Agent LE : a) CHIPSClrSysID_Code b)CHIPSMmbId_ID

Calypso will look for the set of Legal Entity Attributes starting with CHIPS, pick up the values from LE attributes as defined above to populate the same in MX payment messages.

LEI

If the LEI legal entity attribute is configured, the LEI tag is added to the messages for pacs008 and pacs009 CORE & COV CBPR+.

1.1.4 Counterparty Legal Entity

For admi.005 messages, the tags Report name (RptNm) and Scheduled date & time (FrDtTm) are only populated if counterparty attribute Admi005_P27_Receiver = false.

The tags Balance (Bal) and Date Time Range (DtTmRg) are only populated if legal counterparty Admi005_P27_ Receiver = true.
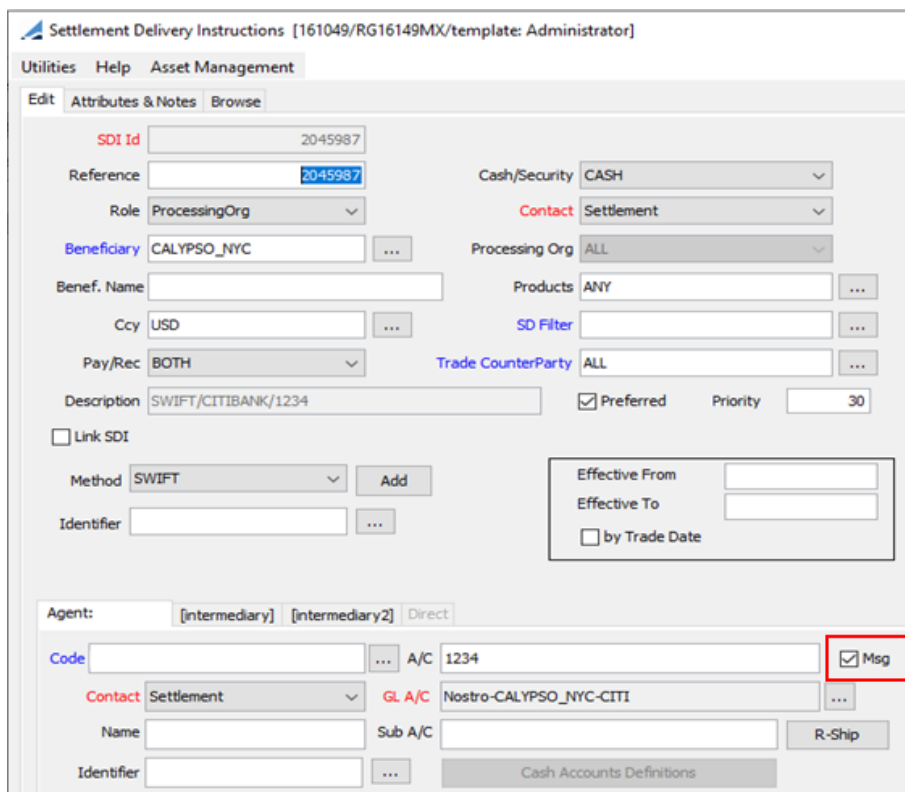
1.1.5 Settlement Instructions

It is recommended that the settlement instructions use the SWIFT settlement method but there is no restriction.

Additionally, you may create different settlement method for each jurisdiction (TARGET2, SIX, MEPS, etc.), so that it can be used in SD Filter for picking up appropriate message setup.

To generate a cover message pacs.009.001.COV.<jurisdiction>, you need to check the Msg checkbox.

Sample PO Settlement Instructions

PO SDI Attribute <jurisdiction>SttlmPrty – The value is used in the messages (pacs.008, pacs.009, pacs.009COV) in the SttlmPrty tag. Valid values are NORM, HIGH and URGT. If the attribute does not have a value, the SttlmPrty tag defaults to NORM.

CBPRSttlmPrty

CHAPSSttlmPrty

MEPSSttlmPrty

There are free text name fields available in SDI for tags of Dbtr, DbtrAgt, Cdtr, CdtrAgt and IntrmyAgt1. These fields are used to populate name tags of legal entities in ISO20022 MX messages when multiple names (sort codes) are assigned to single legal entity.

PO SDI Attributes IBAN.Agent and IBAN.Intermediary – If the value is set to "true" or is no set, and the A/C field is populated, payment messages use the IBAN tag. If the value is set to "false", the tag Othr/Id is used. The payment message will be not be valid if the IBAN tag is used and the value is not a valid IBAN format.

SDI Attribute	Agent / Intermediary tab	Tag
IBAN.Agent	Agent A/C	DbtrAcct
IBAN.Intermediary	Intermediary A/C	DbtrAgtAccount

Sample Counterparty Settlement Instructions

Counterparty SDI Attributes IBAN.Agent, IBAN.Intermediary and IBAN.Intermediary2 – If the value is set to "true" or not set, and the A/C field is populated, payment messages use the IBAN tag. If the value is set to "false", the tag Othr/Id is used. The payment message will be not be valid if the IBAN tag is used and the value is not a valid IBAN format.

SDI Attribute	Agent / Intermediary tab	Tag
IBAN.Agent	Agent A/C	CdtrAcct/SttlmAcct
IBAN.Intermediary	Intermediary A/C	CdtrAgtAccount
IBAN.Intermediary2	Intermediary2 A/C	IntrmyAgt1Acct

If you set "Sender To Receiver Info" in the "Attributes & Notes" tab of the SDI, it populates tag InstrForNxtAgt/InstrInf of pacs.008/pacs.009 similar to tag 72 of MT103/MT202.

Population of this tag varies depending on jurisdiction as some allows 6 lines each of 35 characters like existing MT messages whereas some jurisdiction allows 4 lines each of 140 characters.

Example:

It can also be populated using the UPDATE_XFER_ATTR transfer action.

It can also be populated from the SenderInfo transfer attribute.

Optional tag SchmeNm is supported in pacs.009, pacs.009 COV, pacs.009 ADV, pacs.008, pacs.008 STP of CBPR jurisdiction. SchmeNm tag is present for the Creditor Account, Creditor Agent Account, Intermediary Agent account and is used to populate the External Account Identification Number which is provided by the SWIFT and the ID is used to populate the Identification Number of the particular Account Identification Code.
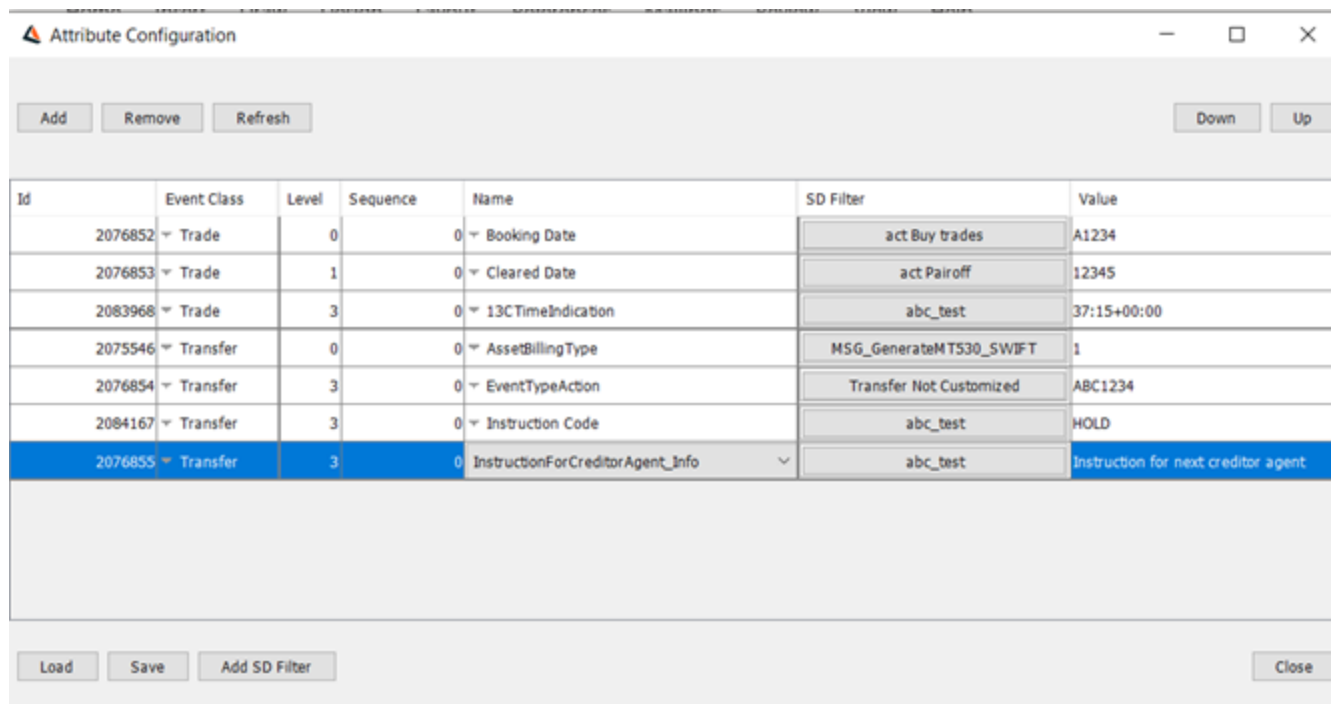
For CHATS messages, <Ctgy><Prty> is populated from Counterparty SDI attribute CategoryPurposeProp, and <Purp><Prty> is populated from Counterparty SDI attribute PurposeProp.

For CBPR messages, CategoryPurpose and CategoryCode are supported as well.

Tag <InstrForCdtrAgt> (InstructionForCreditorAgent_Info) is supported for pacs.009 MX messages and can be populated for the CBPR+ messages with the help of the Transfer attribute and SDI attribute.

The user can provide the Instruction for the creditor agent in the Attribute configuration window in the tag "InstructionForCreditorAgent_Info".

User needs to set the "SetInternalAttribute" keyword in the workflow rule for the transfers.

If the user wants to pass the instructions to the creditor agent by the Trade attribute window, then the user needs to provide the information in the "InstructionForCreditorAgent_Info" tag of the attribute window.

To populate the information user needs to set the "PropagateTradeKeyword" workflow rule in the Transfer Workflow.

User can pass the Instruction for Creditor Agent with the help of the Counterparty SDI window by using the "InstructionForCreditorAgent_Info" section in the SDI window.
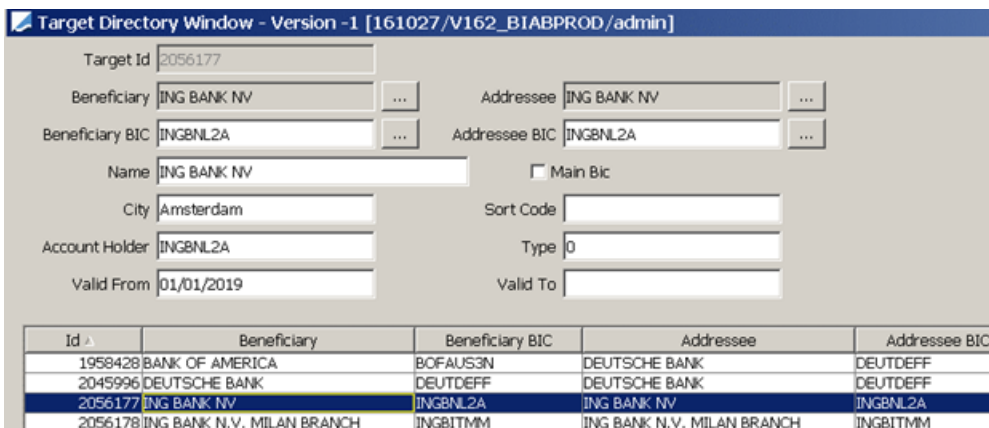
TARGET2 Settlement Instructions

In order to configure TARGET2 settlement instructions and integrate the TARGET2 directory, the counterparties and processing organizations need to have the role Addressee.

The TARGET2 directory is uploaded using the scheduled task LOAD_TARGET2_DIRECTORY.

The legal entity contacts used for the settlement instructions need to have the Swift code populated with the TARGET2 Addressee BIC code.

Sample TARGET2 directory:

The settlements instructions need to use the TARGET2 settlement method. In this case, the Addressee field is displayed, from which you can select the addressee from the TARGET2 directory. The Addressee is the Addressee registered in the TARGET2 directory for the Agent, Intermediary1 or Intermediary 2. The corresponding TARGET2 ID is stored in the SDI attribute Target2_Id.

For pacs.004 and pacs.008 message added the addressline tag under the Intermediary agent 2. Tags <TownName> and <Country> are now optional tags [0..1] for the Intermediary Agent 2 and these can be present or absent based on the user setting up the Legal entity contact.

The new logic for <AddressLine> tag is introduced with multiplicity [0..3] and up to 35 characters.

If the SWIFT BIC is present in the contact window, then calypso will populate the BIC tag and the name/ postal address should not be populated.
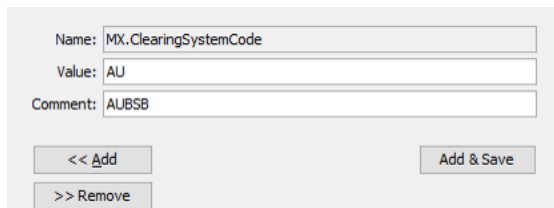
SDI Identifier fields

SDI Identifier fields are used to populate the tags Clearing System Code and Member Id in pacs.008, pacs.009 CORE and COV APN for Creditor Agent, Intermediary 1 and Intermediary 2, instead of using the Legal Entity Attributes APNClrSysID_Code and APNMmbId_ID.

Domain name: MX.ClearingSystemCode

Value: AU

Comment: AUBSB

The system looks for the CP SDI Identifier fields to populate the tags Clearing System Code and Member Id for Creditor Agent, Intermediary 1 and Intermediary 2:

- use "AU" and the domain value created previously to populate the tag Clearing Member <Cd>AUBSB</Cd>
- use the six digits with <MmbId>BSBCode</MmbId>;

If SDI Identifier fields are not present, then look for the Legal Entity Attributes APNClrSysID_Code and APNMmbId_ID to populate the above tags.

The SDI identifier message will be populated as Clearing System code and Clearing System Member ID in the Camt.057 message for the Debtor, Debtor Agent and Intermediary Agent.

User needs to set the ClearingSystem SDI attribute value XXXX and the Clearing System code can be present either in the respective Legal entity Attribute window for the Attribute type XXXXClrSysID_Code or in the domain value "MX.ClearingSystemMapping" having the Value XXXX and populate the Code in the Comment.

To populate the Clearing system Member ID user can use the SDI attribute field (Beneficiary, Agent and Intermediary) or can use the Identifier field in the SDI window or can also use the respective legal entity attribute window having the Attribute Type as XXXXMmbId_ID.

Both the Clearing System code and MemberId should be populated together either with the Standard SDI or the Manual SDI.

Setting up SDI for RTGS (e.g. AusPayNet, CHAPS, TARGET2, etc.) Settlements

The following table provides details about setting SDI for RTGS settlements:

Counterparty is...	Is RTGS Member?				Msg box checked on Cpty SDI?			pacs.009 receiver	pacs.008 receiver	pacs.009COV receiver	Scenario#
	Counterparty	Counterparty's Agent	Intermediary 1	Intermediary 2	on Agent	on Intermediary 1	on Intermediary 2				
Financial	✓	✓*			✓			Counterparty			1
	X	✓			✓			Agent			2
	X	X	✓		X	✓		Intermediary 1			3
	X	X	X	✓	X		✓	Intermediary 2			4
Non-Financial	X	✓			✓				Agent	PO's Agent	5
	X	X	✓			✓			Intermediary 1	PO's Agent	6
	X	X	X	✓			✓		Intermediary 2	PO's Agent	7

*Counterparty is it's own agent

We identify 3 main business case configurations:

- If the counterparty is Financial and a RTGS member (scenario #1), the counterparty is its own agent. A pacs.009 will be sent to the counterparty itself, as agent.

- If the counterparty is not a RTGS member but its agent is, check "Msg" for the Agent in counterparty SDI. If the counterparty is Financial (scenario #2), the agent receives a pacs.009. If the counterparty is non-Financial (scenario #5), the counterparty's agent receives a pacs.008 and agent configured in Processing Org SDI receives pacs.009COV.

- If the counterparty and its agent are not RTGS members, the last Intermediary has "Msg" box checked. The last intermediary receives a pacs.009 if the Counterparty is Financial (scenarios #3 & #4), or a pacs.008 if counterparty is non-Financial (scenarios #6 & #7). If the counterparty is financial, its agent shouldn't receive any message so "Msg" box remains unchecked . If the counterparty is non-financial, a pacs.009COV should be sent to the agent configured in Processing Org SDI, so "Msg" box is ticked.

1.1.6 Domain Values

Message Templates

Domain "MX.Templates"

This domain lists of all MX templates which are eligible for message generation within calypso. This is used in message setup to select specific template name.

admi.002.001.CHATS

admi.005.001

admi.007.001.T2

camt.029.001.APN

camt.029.001.CBPR

camt.029.001.MEPS

camt.029.001.SIX

camt.050.001.MEPS

camt.050.001.SIX

camt.050.001.T2

camt.050.001.T2S

camt.054.001.CBPR

camt.056.001.APN

camt.056.001.CBPR

camt.056.001.CHATS

camt.056.001.MEPS

camt.056.001.SIX

camt.056.001.T2

camt.057.001.CBPR

camt.058.001.CBPR

camt.107.001.CBPR

pacs.002.001.CBPR

pacs.002.001.SIX

pacs.004.001.APN

pacs.004.001.CBPR

pacs.004.001.CHAPS

pacs.004.001.CHATS

pacs.004.001.SIX

pacs.004.001.T2

pacs.008.001.APN

pacs.009.001.APN

pacs.008.001.CBPR

pacs.009.001.CBPR

pacs.009.001.ADV.CBPR

pacs.009.001.COV.CBPR

pacs.008.001.CHAPS

pacs.009.001.CHAPS

pacs.009.001.COV.CHAPS

pacs.008.001.CHATS

pacs.009.001.CHATS

pacs.009.001.COV.CHATS

pacs.008.001.MEPS

pacs.009.001.MEPS

pacs.009.001.COV.MEPS

pacs.008.001.SIX

pacs.009.001.SIX

pacs.008.001.T2

pacs.009.001.T2

pacs.009.001.COV.T2

pacs.010.001.CBPR

pacs.010.001.CHATS

pacs.010.001.T2

pain.001.001.CBPR

PaymentCOVMXCBPR.selector

PaymentCOVMXCHAPS.selector

PaymentCOVMXMEPS.selector

PaymentCOVMXSIX.selector

PaymentCOVMXT2.selector

seev032

seev.033.001.ECMS.T2S

seev036

seev.040.001

seev.040.001.ECMS.T2S

seev.041.001

seev044

semt002

sese.020.001.ECMS

sese.023.001.T2S

sese.023.001.ECMS

transmission.report.2.0.5

trck.001.001

xsys.002.001.APN

xsys.003.001.APN

xsys.002.001.MEPS

xsys.003.001.MEPS

Example:

Name: MX.Templates
Value: pacs.008.001.CBPR
Comment:

Domain "MX.EnhancedTemplate.Revision.Version" - Enhanced TS2.1 Template

To switch to the enhanced template, the message needs to be added to the domain "MX.EnhancedTemplate.Revision.Version" with comment = TS2.1.

Example:

Value = pacs.004.001.CHAPS

Comment = TS2.1

ⓘ **[NOTE: As of 17 August 2022, CHAPS messages use the enhanced TS2.1 Template, whether this domain is set or not]**

Domain "MX.BAH.Versions"

MX message consists of application header (generic across jurisdiction) and "Document" (main message body). This domain is used for storing AppHeader version to be used for specific MX template. As of now some jurisdictions are using version 1 while some are using version 2 of AppHeader. AppHeader version for specific MX template is mentioned in "Comment" of domain value.

camt.029.001.APN

camt.029.001.CBPR

camt.029.001.MEPS

camt.029.001.SIX

camt.050.001.MEPS

camt.050.001.SIX

camt.050.001.T2

camt.050.001.T2S

camt.054.001.CBPR

camt.056.001.APN

camt.056.001.CBPR

camt.056.001.CHATS

camt.056.001.MEPS

camt.056.001.SIX

camt.056.001.T2

camt.057.001.CBPR

camt.058.001.CBPR

pacs.002.001.CBPR

pacs.002.001.SIX

pacs.004.001.APN

pacs.004.001.CBPR

pacs.004.001.CHAPS

pacs.004.001.CHATS

pacs.004.001.SIX

pacs.004.001.T2

pacs.008.001.APN

pacs.009.001.APN

pacs.008.001.CBPR

pacs.009.001.CBPR

pacs.009.001.ADV.CBPR

pacs.009.001.COV.CBPR

pacs.008.001.CHAPS

pacs.009.001.CHAPS

pacs.009.001.COV.CHAPS

pacs.008.001.CHATS

pacs.009.001.CHATS

pacs.009.001.COV.CHATS

pacs.008.001.MEPS

pacs.009.001.MEPS

pacs.009.001.COV.MEPS

pacs.008.001.SIX

pacs.009.001.SIX

pacs.008.001.T2

pacs.009.001.T2

pacs.009.001.COV.T2

pacs.010.001.CBPR

pacs.010.001.CHATS

pacs.010.001.T2

pain.001.001.CBPR

trck.001.001

Example:

The Comment contains the AppHeader version.

Domain "MX.Versions"

Calypso has changed MX version (e.g. 08, 09 etc) with jurisdiction name (SIX, T2, CBPR, etc.) for supporting multiple jurisdictions. But, while generating the message, specific version is required to be populated in MsgDefIdr tag of AppHeader, this domain is used for defining version of the specific MX template.

camt.029.001.APN

camt.029.001.CBPR

camt.029.001.MEPS

camt.029.001.SIX

camt.050.001.MEPS

camt.050.001.SIX

camt.050.001.T2

camt.050.001.T2S

camt.054.001.CBPR

camt.056.001.APN

camt.056.001.CBPR

camt.056.001.CHATS

camt.056.001.MEPS

camt.056.001.SIX

camt.056.001.T2

camt.057.001.CBPR

camt.058.001.CBPR

camt.107.001

pacs.002.001.CBPR

pacs.002.001.SIX

pacs.004.001.APN

pacs.004.001.CBPR

pacs.004.001.CHAPS

pacs.004.001.CHATS

pacs.004.001.SIX

pacs.004.001.T2

pacs.008.001.APN

pacs.009.001.APN

pacs.008.001.CBPR

pacs.008.001.CBPR.STP

pacs.009.001.CBPR

pacs.009.001.ADV.CBPR

pacs.009.001.COV.CBPR

pacs.008.001.CHAPS

pacs.009.001.CHAPS

pacs.009.001.COV.CHAPS

pacs.008.001.CHATS

pacs.009.001.CHATS

pacs.009.001.COV.CHATS

pacs.008.001.MEPS

pacs.009.001.MEPS

pacs.009.001.COV.MEPS

pacs.008.001.SIX

pacs.009.001.SIX

pacs.008.001.T2

pacs.009.001.T2

pacs.009.001.COV.T2

pacs.010.001.CBPR

pacs.010.001.CHATS

pacs.010.001.T2

pain.001.001.CBPR

seev.033.001.ECMS.T2S

seev.040.001.ECMS.T2S

semt.002.001

semt.002.002

sese.020.001.ECMS

sese.023.001.T2S

sese.023.001.ECMS

trck.001.001

Example:

Name:	MX.Versions
Value:	pacs.008.001.T2
Comment:	08

The Comment contains the message template version.

This domain also allows populating the RequestType tag with below information for CHAPS messages:

RequestType = <message type> + "." + <comment from domain MX.Versions> for a given message

Example:

Domain = MX.Versions

Value = pacs.008.001.CHAPS

Comment = 08

=> RequestType = pacs.008.001.08

Domain "MX.T2"

For all T2 messages except camt.050, the comment of the domain "MX.T2" for Value = ReceiverDNRTGS is used to set the DN receiver.

Example:

Domain = MX.T2

Value = ReceiverDNRTGS

Comment = cn=rtgs,o=trgtxepm,o=swift

For T2 camt.050, if the GLAccount defined at PO SDI level has attribute Target2_MCA = true, the comment of the domain "MX.T2" for Value = ReceiverDNCLM is used to set the DN receiver.

Example:

Domain = MX.T2

Value = ReceiverDNCLM

Comment = cn=clm,o=trgtxepm,o=swift

If Target2_MCA = false or not set, the comment of the domain "MX.T2" for Value = ReceiverDNRTGS is used to set the DN receiver.

For T2 messages, the full name receiver is set as follows:

When tag <DN> = "cn=clm,o=trgtxepm,o=swift" , the tag <FullName> is the comment of Value = SAA.ReceiverCLM in domain MX.T2.

When tag <DN> = "cn=rtgs,o=trgtxepm,o=swift", the tag <FullName> is the comment of Value = SAA.Receiver in domain MX.T2.

Example:

Domain = MX.T2

Value = SAA.Receiver

Comment = TRGTXEPMXXX

For T2 Reda025:

Domain = MX.T2

Value = ReceiveDNCRDM

Comment = cn=crdm,o=trgtxe2s,o=swift

Reda025SenderDN=cn=cms,ou=t2s,o=dknbdkkk,o=swift

Domain "SWIFT.Templates.GPI"

UETR is generated for all templates defined under this domain.

pacs.008.001.APN

pacs.009.001.APN

pacs.008.001.CBPR

pacs.009.001.CBPR

pacs.009.001.COV.CBPR

pacs.008.001.CHAPS

pacs.009.001.CHAPS

pacs.009.001.COV.CHAPS

pacs.008.001.CHATS

pacs.009.001.CHATS

pacs.009.001.COV.CHATS

pacs.008.001.MEPS

pacs.009.001.MEPS

pacs.009.001.COV.MEPS

pacs.008.001.SIX

pacs.009.001.SIX

pacs.008.001.T2

pacs.009.001.T2

pacs.009.001.COV.T2

pacs.010.001.CBPR

pacs.010.001.T2

pacs.010.001.CHATS

pain.001.001.CBPR

Domain "MX.Templates.COV"

Cover message templates are defined under this domain.

pacs.009.001.COV.CBPR

pacs.009.001.COV.CHAPS

pacs.009.001.COV.CHATS

pacs.009.001.COV.MEPS

pacs.009.001.COV.T2

Domain "MX.BAH.BusinessService.Versions"

This domain allows users to set the business service <BizSvc> version.

pacs.008.001.APN

pacs.009.001.APN

pacs.009.001.ADV.CBPR

pacs.008.001.CHAPS

pacs.009.001.CHAPS

pacs.008.001.CHATS

pacs.009.001.CHATS

camt.058.001.CBPR

camt.107.001

Example:

Name:	MX.BAH.BusinessService.Versions
Value:	pacs.008.001.CHAPS
Comment:	01

The Comment contains the business service version.

For the APN jurisdiction, the BizSvc tag is set as follows:

- apn.hvcs.<comment from domain MX.BAH.BusinessService.Versions>: For domestic message across HVCS.
- apn.hvcs.xbrdr.<comment from domain MX.BAH.BusinessService.Versions>: For onward cross border payment using an Australian Intermediary.

  "xbrdr" is added if counterparty SDI attribute MX.BAH.BusinessService = xbrdr.

This domain also allows populating the RequestSubtype tag with below information for CHAPS messages:

RequestSubtype = "boe.chaps." + <comment from domain MX.BAH.BusinessService.Versions> for a given message

Example:

Domain = MX.BAH.BusinessService.Versions

Value = pacs.008.001.CHAPS

Comment = I4I.01

=> RequestSubtype = boe.chaps.I4I.01

Domain "MX.CHATS"

Value = SAA.Receiver

Comment = <SAA receiver>

Value = BAH.Receiver

Comment = <BAH receiver>

Value = ReceiverDN

Comment = <DN receiver>

Domain "messageType"

PaymentOrder

PaymentStatusNotification

ReceiptNotice

RequestCancellation (Used for camt.056 messages)

ResolutionOfInvestigation (Used for camt.029 messages)

CorporateActionMovementConfirmation (Used for seev.036)

Domain "iso20022Type"

Types available for ISO20022 External Codes window.

Domain "jurisdiction"

This domain is used in ISO20022 External Config window. See ISO20022 External Codes for details.

Domain "MXOtherJurisdiction"

You can define jurisdictions not supported by Calypso in that domain.

This is used to retrieve the IncominLinkMessageIdentifier for these jurisdictions.

Domain "SimpleTransfer.subType"

Add the value RETURN to the domainName "SimpleTransfer.subType". This transfer type is used by RETURN transfer required in pacs.004 (Payment Return) message generation process.

Domain "SAA.Revision.Version"

This domain is used to populate the Revision tag as:

Revision = <comment from domain SAA.Revision.Version> for a given message

The default value is 2.0.5 if not set.

Example:

Domain = SAA.Revision.Version

Value = pacs.008.001.CHAPS

Comment = 2.0.11

=> Revision = 2.0.11

For Reda025 messages:

Domain = SAA.Revision.Version

Value = reda.025.001.T2S

Comment = 2.0.5

=> Revision = 2.0.11

Domain "SaaMessageIdentifier"

Note: This would not have any impact on MsgDefIdr of AppHeader.

For Reda025 messages:

Domain = SaaMessageIdentifier

Value = reda.025.001.T2S

Comment = DRAFT5

Domain "camt056CancellationReason"

This is an optional domain that can be used to populate the default cancellation reason code (CxlRsnInf/Rsn/Cd) in camt.056 messages.
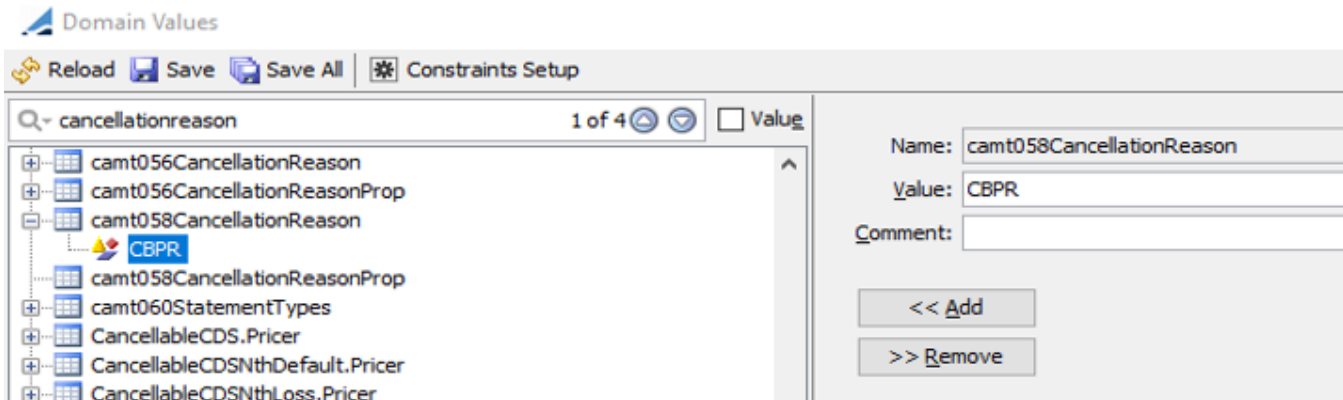
Example:

Value = <jurisdiction>

Comment - <default cancellation reason code>

Domain "camt058CancellationReason"

This is an optional domain that can be used to populate the default cancellation reason code (CxlRsnInf/Rsn/Cd) in camt.058 messages.

Example:
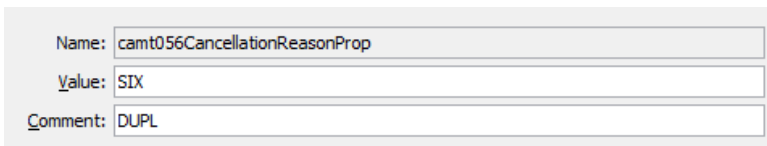
Value = <jurisdiction>

Comment = <default cancellation reason code>

Domain "camt056CancellationReasonProp"

This is an optional domain that can be used to populate the default proprietary cancellation reason code (CxlRsnInf/Rsn/Prop) in camt.056 messages.

Example:

Value = <jurisdiction>
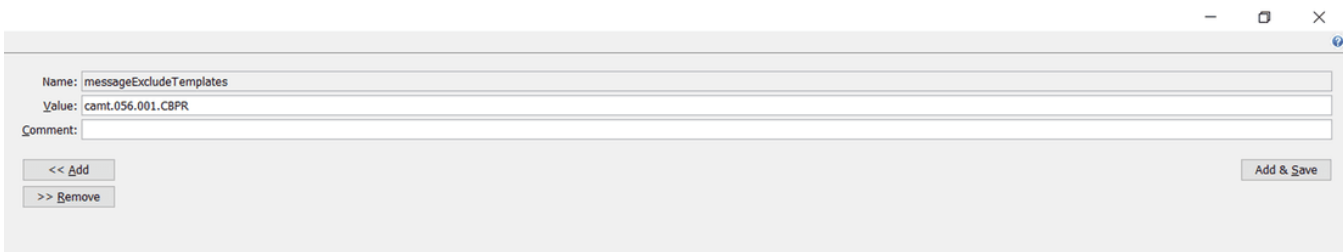
Comment - <default proprietary cancellation reason code>

Proprietary reason codes are only allowed in specific jurisdictions and should be set accordingly.

Domain "MessageExcludeTemplate"

This domain is used for both camt.056 and camt.029 messages for Request to cancellation and response to that request.

Example:

Domain "MappingIncomingWithContact"

When the SWIFT BIC code is looked up in the LE Contact, it is using Contact Type = ALL by default. Then the corresponding processing org is selected.

You can use another contact type by adding it to the domain "MappingIncomingWithContact":

Value = <message type>

Comment = <LE Contact type to be used to lookup the processing org>

Example:

Value = PACS009

Comment = MatchingSystem

If there is no contact with this contact type, the first contact found is used.

Domain "MemberId"

Value = Reda025

Comment = PUNB143566LONDON

Domain "ClearingSysPropId"

Value = Reda025

Comment = T2S

Domain "NetworkInfo"

Value = Reda025

Comment = esmig.t2.iast

Value = <message type>

Comment = <value of tag Network Info Service>

Tracker Messages

Domain "role"

Value = tracker

Domain "MT199_UNIV"

Value = MT199Receiver

Comment = Short name of legal entity with role Tracker

Domain "UniversalConfirmation"

Value = TrackerReceiver

Comment = Short name of legal entity with role Tracker

Value = Trck.001TagInstrId

Comment = pacs.008TagInstrId

Value = Trck.001TagUETR

Comment = pacs.008TagUETR

Value = pacs.008TagInstrId and Value = pacs.008TagUETR must also be added to the domains "tradeKeyword", "PropagateTradeKeyword", "XferAttributes".

Trade Keywords

Add the following values to the domains "tradeKeyword".

LinkedEndToEndId

LinkedInstructionId

LinkedMessageType

LinkedMessageIdentifier

LinkedInterbankSettleAmount

LinkedInterbankSettleDate

LinkedUETR

RegulatoryReportingState

ReturnAdditionalInformation

ReturnInstructedAgentBIC

ReturnInstructingAgentBIC

ReturnReason

TxId

EndToEndId

MessageType

MessageIdentifier

InstructedAgentBIC

InstructingAgentBIC

pacs.008TagInstrId

pacs.008TagUETR

Add the following values to the domain "PropagateTradeKeyword".

LinkedEndToEndId

LinkedInstructionId

LinkedMessageType

LinkedMessageIdentifier

LinkedInterbankSettleAmount

LinkedInterbankSettleDate

LinkedUETR

RegulatoryReportingState

ReturnAdditionalInformation

ReturnInstructedAgentBIC

ReturnInstructingAgentBIC

ReturnReason

TxId

EndToEndId

InstructionId

MessageType

MessageIdentifier

InstructedAgentBIC

InstructingAgentBIC

pacs.008TagInstrId

pacs.008TagUETR

SIX 2022 Release

To activate the SIX 2022 release, you need to set Value = true in domain "MXUseSIX2022" and set the template name and version in domains "MX.Versions" and "MX.XSD.Version".

Example:

Domain = MX.XSD.Version

Value = pacs.009.001.SIX

Comment = 08.ch.02

This release covers:

- Update of all MX messages to ISO version level 2019.
- All messages - Mandatory use of UETR. InstructionId is no longer used to populate UETR.
- Added ClrSys = SIC for SIX jurisdiction.
- Added SIXSttlmPrty SDI attribute to populate SttlmPrty tag.
- Added CategoryPurposeProp SDI attribute to populate CtgyPurp tag.
- Removed ESRPMT payment type.
- pacs.004 integration – UETR needs to be added to the matching keys of the matching context. ClrSys changed from PCH to SIC.
- camt.025 integration – Request type changed from CSC to SIC.

SIX 2023 Release

To activate the SIX 2023 release, you need to set Value = true in domain "MXUseSIX2023" and set the template name and version in domains "MX.Versions" and "MX.XSD.Version".

Example:

Domain = MX.XSD.Version

Value = pacs.009.001.SIX

Comment = 08.ch.03

This release covers:

- camt.029: tag /Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/CxlStsRsnInf/AddtlInf: ATR053/" replaces "ATR7", "ATR057/" replaces "ATR6";
- XSD update for the below messages:

  pacs.009 => pacs.009.001.08.ch.03

  camt.029 => camt.029.001.09.ch.02

  camt.056 => camt.056.001.08.ch.03

- Remove dependency on domain MXUseSIX2022 for all SIX templates: pacs.004, pacs.008, pacs.009, camt.029, camt.050, camt.056, camt.025 (integration only).

SIX 2024 Release

To activate the SIX 2024 release, you need to set Value = true in domain "MXUseSRChanges" and set the template name and version in domains "MX.Versions" and "MX.XSD.Version".

Example:

Domain = MX.XSD.Version

Value = camt.029.001.SIX

Comment = 09.ch.03

This release covers:

- Adjustments to reclaims from the "Bank and third-party system payments (pacs.009)" Message - Pacs.009 is added as underlying message in camt.056 and camt.029.

- Standardization of the amount split for all participants - Amount split handling in pacs.008 and pacs.009: Added new tag Service Level in Code format to populate "SPLI" if Transfer attribute "SplitKey" is populated OR "BusinessReason" is set to "SPLIT", if not present, populate with the transfer attribute ServiceLevelCode.

- XSD update for the below messages:

  camt.029 => camt.029.001.09.ch.03

  camt.056 => camt.056.001.08.ch.04

CHAPS 2025 May enhanced data update

This release covers:

- Added the support of the Purpose tag in Code format in pacs.008 and pacs.009 CHAPS messages - The Transfer Attribute Keyword "PurposeCode" or the Counterparty SDI attribute "PurposeCode" are added to populate the Purpose in code format.

- Added the LEI for IntrmyAgt1, IntrmyAgt2, Dbtr, Cdtr, CdtrAgt for pacs.008, pacs.009 CORE and COV, and pacs.004 CHAPS messages – Populated the LEI tag with the Legal Entity Attribute LEI, and removed the dependency with CASH_USE_LEI_FOR_SWIFTMX Legal Entity Attribute for already implemented LEI logic for Pacs.009 CORE and Pacs.009 COV.

1.1.7 Message Setup

There are two fields in the message setup which are specifically important for MX messages:

- Gateway - It can be selected as either MX or SAA or FILE or "customized" gateway. If SAA is selected, additional technical header info required for SWIFT Alliance Access is populated in MX messages. If MX gateway is selected, then the message is not populated with SAA technical header. If FILE gateway is selected the SAA technical header is not populated by default. For populating SAA technical header with FILE gateway, domain MX.DisplaySAAHeader should be set to TRUE.

- Format type - It should be selected as MX which allows to select templates defined in MX.Templates domain

pacs.008 / pacs.009 Messages

The message template "PaymentCOVMX<jurisdiction>.selector" allows generating pacs.008 / pacs.009 messages based on whether the counterparty is financial or non-financial. It also generates pacs.009.001.COV messages (cover messages) if the Msg checkbox is checked on the PO SDI and the counterparty is non-financial.

Alternatively, you can use the message template pacs.008 / pacs.009 with specific static data filters.

Sample message setup with PaymentCOVMXCBPR.selector

camt.056 Messages

camt.056 messages are generated when the RECALL action is applied on a transfer for which the pacs.008 / pacs.009 message was generated (recommended approach) or through trade cancellation.

ⓘ **[NOTE: You need to chose one or the other. You cannot configure both options]**

Option 1 - Sample message setup for RECALL action

Product Type	ALL		Language	English
Event Type	SETTLED_PAYMENT		Address Type	SWIFT
Message Type	RequestCancellation		Gateway	MX
Processing Org	ALL		Format Type	MX
PO Contact Type	Settlement		Template	camt.056.001.T2
Receiver	ALL		SD Filter	camt056_Target2
Receiver Role	Agent		Audit Filter	
Rec Contact Type	Settlement			
Grouping				

☐ Matching   ☐ Inactive
☐ Do not Send Message

Static data filter

Static Data Filter Window [161075/RG16175MR/template: Administrator]

Name	camt056_Target2
External Ref.	
Comment	
Groups	ANY

▽ Criteria...

Attribute	Criteria		Filter Value(s)
Transfer Action	▾ IN	Add	RECALL
IN Static Data Filter	▾ IN	Add	Target2Message

Static Data Filter Window [161075/RG16175MR/template: Administrator]

Name	Target2Message
External Ref.	
Comment	
Groups	ANY

▽ Criteria...

Attribute	Criteria		Filter Value(s)
IN Static Data Filter	▾ IN	Add	NotReturnXfer
Xfer Our Method	▾ IN	Add	TARGET2
Xfer Their Method	▾ IN	Add	TARGET2

On the Message workflow for payments messages (PaymentOrder), you need to add the UpdateTransfer rule on the SENT - ACK - ACKED transition to update the transfer with the xfer attribute MXJurisdiction using the following rule parameter:

Option 2 - Sample message setup for trade cancellation

The message setup is the same except that the template should be set to "PaymentCOVMX<jurisdiction>.selector".

This process is described below.

seev.040 Messages

Configuration of the message set up in order to assign the generation of the seev.40 once the election has been canceled is shown below. The SDFilter can be used to configure the specific CA events on which a seev.040 needs to be sent, using the CA event SWIFT code and/or the CA option SWIFT code.

As per the existing logic of MT565(CANC), the generation of the message following a cancellation of an instruction should be displayed in the message tab of the Election Management GUI, linked to the Agent election object.

Use existing workflow - Election message workflow (subtype = CA_ELECTION)

EVENT_TYPE = PARTIALLY_ELECTED_CAELECTION_CANCELLATION

pacs.010 Messages

For CBPR, the message template PaymentCOVMXCBPR.selector generates pacs.010.001.CBPR messages for the receipt transfers.

Alternatively, you can use the message template pacs.010.001.CBPR.

For T2, the message template PaymentCOVMXT2.selector generates pacs.010.001.T2 messages for the receipt transfers.

Alternatively, you can use the message template pacs.010.001.T2.

Sample message setup with pacs.010.001.T2

Sample message setup for pacs.010.001.COL.CBPR

camt.050 Messages

camt.050 messages are generated for the payments of Transfer Agent trades.

Sample message setup

camt.057.001.CBPR Messages

For CBPR, the message template PaymentCOVMXCBPR.selector generates camt.057.001.CBPR messages for the receipt transfers.

Alternatively, you can use the message template camt.057.001.CBPR.

Sample message setup with camt.057.001.CBPR

SDI attribute "CAMT057TagsunderNtfctn" should be set on the PO SDI, with value as either "True/False/Blank". If the value is "True", then tags will be placed under <Ntfctn> else under <Itm>.

Now DbtrAgt, IntrmyAgt & XpctdValDt tags will be populated under Ntfctn or Ntfctn/Itm tag based on the above logic.

The updated logic for IntrmyAgt tag is such that it will try to get in this precedence as Intermediary1 in PO Receiver SDI > if not present, Intermediary2 in CP Payer SDI > if not present, Intermediary1 in CP Payer SDI > if not present, Agent in CP Payer SDI.

camt.058 Messages

camt.058 messages are generated when the RECALL action is applied on a transfer for which the camt.057 message was generated (recommended approach) or through trade cancellation.

Option 1 - Sample message setup for RECALL action

In this sample setup, Message Type is ReceiptNotice. But you can also use a setup with a dedicated Message Type = RequestCancellation.

This is a manual process. When the RECALL action is applied, the "Transfer RECALL" window pops up.

Option 2 - Trade cancellation

The message setup is the same except that the template should be set to "PaymentCOVMXCBPR.selector".

The camt.058 is generated from the reverse transfer generation when doing the trade cancellation, because the original transfer, of direction RECEIVE, is in SETTLED status.

pacs.004 Messages

pacs.004 messages are generated for the return payments of Simple Transfer trades.

Sample message setup

Static data filter

You can also use the PaymentCOVMX<jurisdiction>.selector templates.

trck.001.001 Messages

trck.001.001 messages are used for universal confirmation of pacs.008 messages. They provide status update on payments received through pacs.008.

The trades associated with the pacs.008 messages must contain the trade keywords pacs.008TagInstrId and pacs.008TagUETR.

Create a message setup for the case of SETTLED_RECEIPT, and for the case of FAILED_RECEIPT.

Example:

pacs.002.001.CBPR Messages

pacs.002.001.CBPR messages can be generated from the Matching Manager when rejecting incoming pacs.008 / pacs.009 messages.

Sample message setup

camt.029 Messages

camt.029 messages are generated when action REJECT_REQUEST is applied on receipt transfers for which pacs.008/pacs.009 is integrated and camt.056 (Request for cancellation) is received.

Sample message setup

Target2Message static data filter is the same as used in camt.056 message.

camt.054 Messages

Sample message setup

camt.055 Messages

The CustomerPaymentCancellationRequest message is issued by the initiating party to request the cancellation of an initiation payment message previously sent (such as CustomerCreditTransferInitiation pain.001 or CustomerDirectDebitInitiation pain.008).

It should be noted that pain.008 is not supported by Calypso currently.
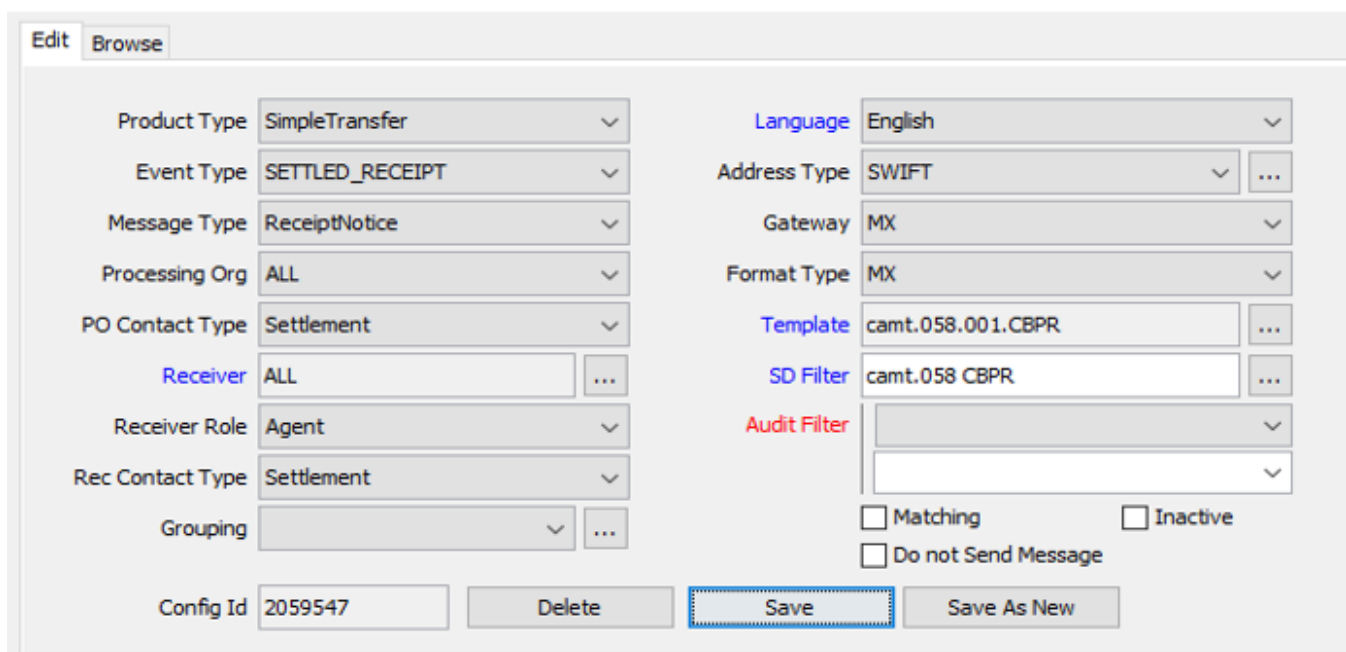
Sample message setup

camt.055 messages are generated when the RECALL action is applied on a transfer for which the pain.001 / pain.008 message was generated.

In this sample setup, Message Type = RequestCancellation.

This is a manual process. When the RECALL action is applied, the "Transfer RECALL" window pops up.

Static data filter

pain.001 Messages

Payment messages for customer transfer payments.

Sample message setup

admi.005 Messages

admi.005 messages allow requesting reports to the receiver. Open the MX BO Message Generator window using menu action refdata.MXBOMessageGeneratorFormatWindow.

Sample message setup

1.1.8 pacs.002.001.CBPR Messages - Additional Setup

Domain Values

Domain "eventType"

PAYMENT_STATUS

Domain "eventClass"

PSEventGenericOnObject

Domain "MessagePaymentStatusApplyAction"

REJECT_PAYMENT

Domain "messageAction"

REJECT_PAYMENT (same action as domain "MessagePaymentStatusApplyAction")

Message Engine

Add subscription to PSEventGenericOnObject.

Message Workflow for Incoming pacs.008 / pacs.009

Add transition UNPROCESSED – REJECT_PAYMENT – CANCELED

▶ See MX Payment Messages Integration for information on integrating pacs.008 / pacs.009 messages.

In the matching context, for pacs.008 / pacs.009, select Allow Payment Status in "More Options" panel.
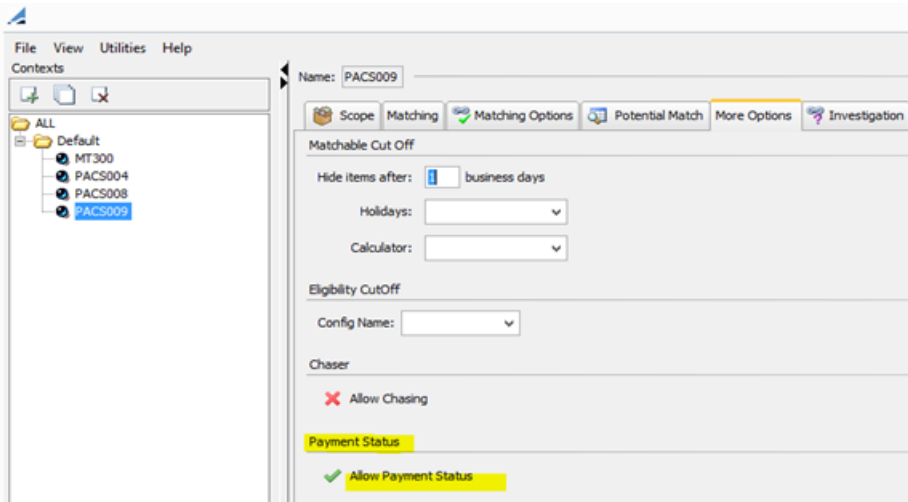
1.1.9 Suggested Transfer Workflow

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
PENDING	ACCEPT	VERIFIED	CheckTarget2Valid	Y		
PENDING	UPDATE_DATE	PENDING	UpdateSettleDate			
PENDING	ASSIGN	CANCELED				
PENDING	CANCEL	CANCELED				
VERIFIED	MATCH	SETTLED	CopyPacsKeyword			Action depends on Matching app configuration
VERIFIED	MANUAL_MATCH	SETTLED				Action depends on Matching app configuration
VERIFIED	AUTO_SETTLE	SETTLED			Only applicable to Transfers generating PACS008/9/10 and outgoing	If not rejected prior to Settle Date, payment must be considered settled

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
					Return Xfer	Scheduled Task PROCESS_ TRANSFER should be run daily to apply AUTO_SETTLE action
VERIFIED	CANCEL	CANCELED				
VERIFIED	ASSIGN	CANCELED				
VERIFIED	SPLIT	SPLIT				
VERIFIED	REJECT	TO_BE_ REGENERATED				Received PACS.002 rejection
VERIFIED	RECALL	TOBECANCELED	AddRecallDateAttribute		Only applicable to Transfers generating PACS008/9/10	Generates camt.056 The RECALL action automatically updates the RECALL_DATE on the transfer
TOBECANCELED	CANCEL	CANCELED				
TOBECANCELED	SETTLE	SETTLED				
VERIFIED	REJECT_ RECALL	VERIFIED	RemoveXferAttributes (Param Recall_Date)			T2 does not necessarily sends camt.029 neg-ative (status RJCR) to con-firm rejection ofRECALL_ REQUEST. Pay-ment needs to move to SETTLED at Settle Date through Sched-

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
						uled Task PROCESS_ TRANSFER Manage Recall status by running a Transfer Report where the RECALL_ DATE <> null.
VERIFIED	ACCEPT_ RECALL	CANCELED	RemoveXferAttributes (Param Recall_Date)			
TO_BE_ REGENERATED	ASSIGN	CANCELED				
TO_BE_ REGENERATED	CANCEL	CANCELED				
TO_BE_ REGENERATED	UPDATE_ DATE	PENDING	UpdateSettleDate			
SETTLED	RECALL	SETTLED	AddRecallDateAttribute		Only applicable to Transfers generating PACS008/9/10	Generates camt.056
SETTLED	REJECT_ RECALL	SETTLED	RemoveXferAttributes (Param Recall_Date)			As an answer might not be received, payment should move back to Settled through Scheduled Task PROCESS_ TRANSFER - Recommend to use SD Filter based on Recall Date to select transfer with recall date greater than x days.
SETTLED	RETURN	SETTLED	RemoveXferAttributes			System Trans-

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
			(Param Recall_Date, Request_Date)			ition (applied at pacs.004 linkage. Reason should be stored as XferAttribute). IF Xfer Amounts are the same RETURN else PARTIAL_ RETURN
SETTLED	UNMATCH	VERIFIED				
SETTLED	REQUEST	SETTLED	AddRequestDateAttribute		Only applicable to Transfers NOT generating PACS008/9/10	Received camt.056 and potentially generates a camt.029 if necessary - The system REQUEST transfer action will automatically update the REQUEST_ DATE on the transfer.
SETTLED	REJECT_ REQUEST	SETTLED	RemoveXferAttributes (Param Request_Date)		Only applicable to Transfers NOT generating PACS008/9/10	Received camt.056 and potentially generates a camt.029 if necessary with status RJCR

Note: AMEND, UPDATE, SPLIT and FAIL transitions should be added where applicable.

The transfer workflow rules are described below.

AddRecallDateAttribute

When applied, a new Recall_Date transfer attribute will be saved on transfer.

If a Recall_Date is already available on transfer, then it will be updated with new action date (only the latest recall date will be stored)

AddRequestDateAttribute

When applied, a new date Request_Date transfer attribute will be saved on transfer.

If a Request_Date is already available on transfer, then it will be updated with new action date (only the latest request date will be stored)

CheckTarget2Valid

Purpose of this workflow rule is to control that the payment is compliant with Target2 Rules.

Check if value date respects the configuration defined in Value Date Control (see Value Date Control for details)

- If yes, return True
- Else, return False (block the transition)

CopyPacsKeyword

It allows copying MsgAttributes to the related Matched transfer as XferAttributes upon integration. It is used in pacs.008/pacs.009 message integration process.

RemoveXferAttributes

When applying RECALL/REQUEST action, a new date Recall_Date/Request_Date will be stored.

Then, when the answer to the recall request is received from the payment beneficiary, the Recall_Date/Request_Date should be removed so users can know that there is no longer a pending Recall/Request attached. Recall_Date/Request_Date can be passed as "Rule Param".

So this rule, should be set on transitions with original status where Recall/Request action can be applied.

In the proposed workflow, it should be set in transitions with actions REPLY and RETURN

When applied, workflow rule will:

- If Recall_Date/Request_Date available, delete it
- If Recall_Date/Request_Date not available, take no action

The workflow rule does not block the transition.

1.1.10 Swift LAU Encryption

You can define LAU encryption keys using the Swift LAU window.

▶ Please refer to Calypso Swift Messages documentation for details.

1.2 ISO20022 General Configuration

1.2.1 Value Date Control
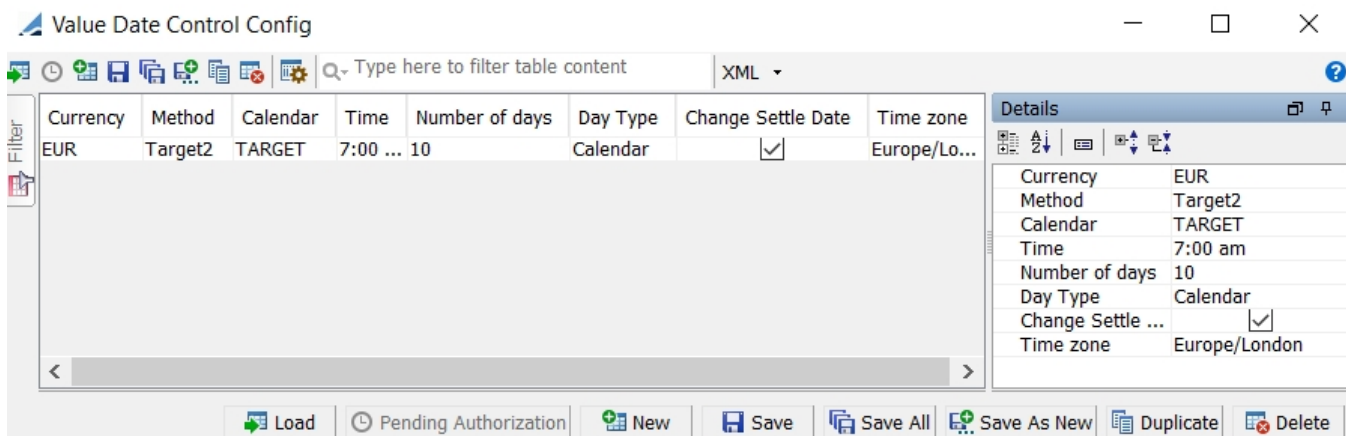
Menu action `refdata.ValueDateControlConfigWindow`.

To ensure that the value date of the Transfer is within the accepted time frame. This is based on the warehousing period allowed for specific jurisdiction. This configuration is used in the transfer workflow rule (CheckTarget2Valid) which should be configured in the Transfer workflow if you intend to use such functionality.

It is a unique combination of currency and method. Below information must be completed:

- Currency

- Method

- Calendar (e.g. it should be Target2 holiday calendar)

- Cut off Time

- Number of days (if value date is more than x days from current date)

- Day Type (business/calendar)

- ChangeSettleDate: This flag will is used in UpdateSettleDate workflow rule

- Timezone

Example:

This means that for payments in EUR and settled in Target 2, the calendar to be used is TARGET and it cannot be generated 10 calendar days before Value Date.

1.2.2 Reference Management

In case of ISO20022 MX messages, multiple identifiers (InstructionId, EndToEndID, UETR, etc.) are populated in a message.
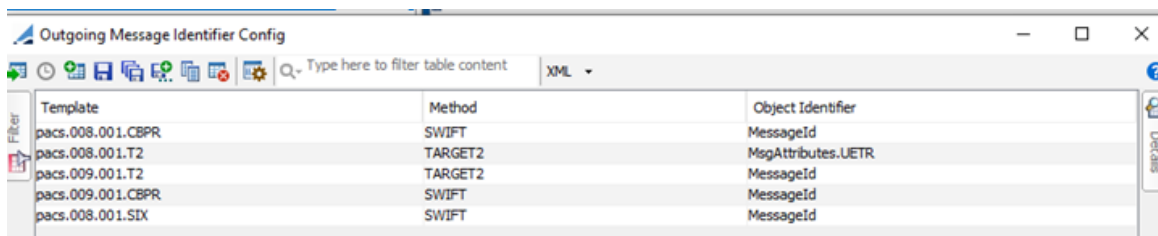
The functionality below provides support for message vs. message matching functionality if there is an expectation to match a specific identifier in outgoing message (generated by Calypso) vs. a specific identifier in the incoming message (received and integrated in Calypso).

Message Attribute MessageIdentifier is populated based on Outgoing Message Identifier setup and it can be matched against the message attribute mentioned in Incoming Linked Message Identifier.

Setting Up Outgoing MessageIdentifier

Menu action `refdata.OutgoingMessageIdentifierConfigWindow`.

Outgoing MessageIdentifier is the Message Identifier that will be stored as Message attribute of outgoing messages. When indexed incoming messages is integrated, this attribute is used to link it.

Fields:

- Template - Message Template of the outgoing message for which this configuration is done. "PaymentCOVMX<jurisdiction>.Selector" templates cannot be used for this setup.
- Method - Settlement Method of the PO SDI.
- Object Identifier - Field that populates the message attribute MessageIdentifier. Possible values: MessageId, TransferId, MsgAttribute.<message attribute>, XferAttribute.<transfer attribute>. If MsgAttribute/XferAttribute is used, it should be available at the time of message generation.

Example: pacs.008.001.T2 – Target2 - MsgAttribute.UETR

In this scenario, outgoing pacs.008.001.T2 for Target 2 contains the attribute MessageIdentifier with the value from message attribute UETR.

For xsys.002 and xsys.003 integration, you need to add:

pacs.008.001.MEPS - SWIFT - MsgAttributes.EndToEndId

pacs.009.001.MEPS - SWIFT - MsgAttributes.EndToEndId
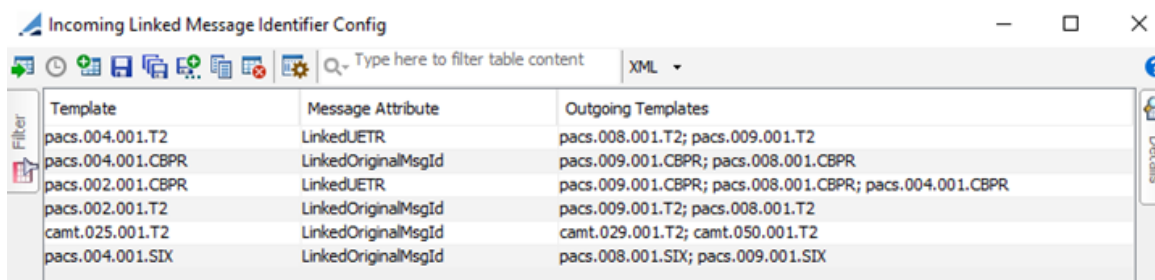
Setting Up Incoming Linked Message Identifier

Menu action `refdata.IncomingLinkedMessageIdentifierConfigWindow`.

This applies to incoming messages only.

It determines which reference of the incoming indexed message should be used to link it with outgoing message.

When integrating the incoming message, the system should find the outgoing message that contains the message attribute MessageIdentifier with same value as the message attribute of the incoming message defined in this configuration.

Fields:

- Template - Message Template of the incoming message for which this configuration is done. "PaymentCOVMX<jurisdiction>.Selector" templates cannot be used for this setup.
- Message Attribute - Message attribute of the incoming message to be used for matching message attribute MessageIdentifier of outgoing message.
- Applicable Outgoing Templates - Outgoing message templates to which this configuration applies (separated by ";"). "PaymentCOVMX<jurisdiction>.Selector" templates cannot be used for this setup.

Example: pacs.004.001.T2 – LinkedUETR - pacs.008.001.T2;PACS.009.001.T2

In this scenario, LinkedUETR attribute of incoming pacs.004.001.T2 is matched with MessageIdentifier attribute of outgoing messages pacs.008.001.T2;pacs.009.001.T2.

For xsys.002 and xsys.003 integration, you need to add:

xsys.002.001.MEPS – LinkedOriginalMsgId - pacs.008.001.MEPS;pacs.009.001.MEPS

xsys.003.001.MEPS – LinkedOriginalMsgId - pacs.008.001.MEPS;pacs.009.001.MEPS

1.2.3 ISO20022 External Codes

Menu action `refdata.ISO20022ExternalCodeWindow`.

This window is used to store ISO20022 external codes published by SWIFT per specific jurisdictions. These are used to set various codes (Return Reason, Payment Cancellation Rejection, etc.) in MX messages (pacs.004, camt.029, camt.056, camt.058).

SWIFT published list of codes is available at below link:

https://www.iso20022.org/catalogue-messages/additional-content-messages/external-code-sets

You need to enter the following columns:

- Type - This is the type ISO20022 external code (e.g., ReturnReason, PaymentCancellationRejection, etc.). It is defined in iso20022Type domain

- Code – This is the code as published by SWIFT or jurisdiction

- Name – This is the name as published by SWIFT or jurisdiction. It is not used in MX messages, but it is displayed for information purposes

- Definition – This is the definition of the code as published by SWIFT or jurisdiction. It is not used in MX messages, but it is available for information purposes

- Jurisdiction – This is a column used to maintain separate codes per jurisdiction for the same "type"

- Code Type – Whenever ISO20022 external codes are populated in MX messages, it is either populated in "Cd" or "Prtry" tag. It is an optional column used in case of need to populate proprietary (Prtry) code in MX messages. If this type is not selected, code will be populated in "Cd" tag by default.

Detailed usage of the different "types":

ReturnReason - Used in pacs.004 message generation when RETURN action is applied on transfer. It is used for populating return reason code (RtrRsnInf/Rsn/Cd).

PaymentCancellationRejection - Used in camt.029 message generation when REJECT_REQUEST action is applied on transfer. It is used for populating Cancellation Status Reason code (CxlStsRsnInf/Rsn/Cd or Prtry).

InvestigationExecutionConf - Used in camt.029 message generation when REJECT_REQUEST action is applied on transfer. It is used for populating Confirmation Status Code (Sts/Conf).

CancellationReason - Used in camt.056 message generation when RECALL action is applied on transfer. It is used for populating Cancellation reason code (CxlRsnInf/Rsn/Cd or Prtry). It is also used when UPDATE_CANCEL_REASON is applied on camt.056 message for populating Cancellation reason code (CxlRsnInf/Rsn/Cd or Prtry).

CancellationReasonReceipt - Used in camt.058 message generation when RECALL action is applied on transfer. It is used

for populating Cancellation reason code (CxlRsnInf/Rsn/Cd). It is also used when UPDATE_CANCEL_REASON is applied on camt.058 message for populating Cancellation reason code (CxlRsnInf/Rsn/Cd)."

1.3 Disabling xml tag population in ISO20022 MX message templates
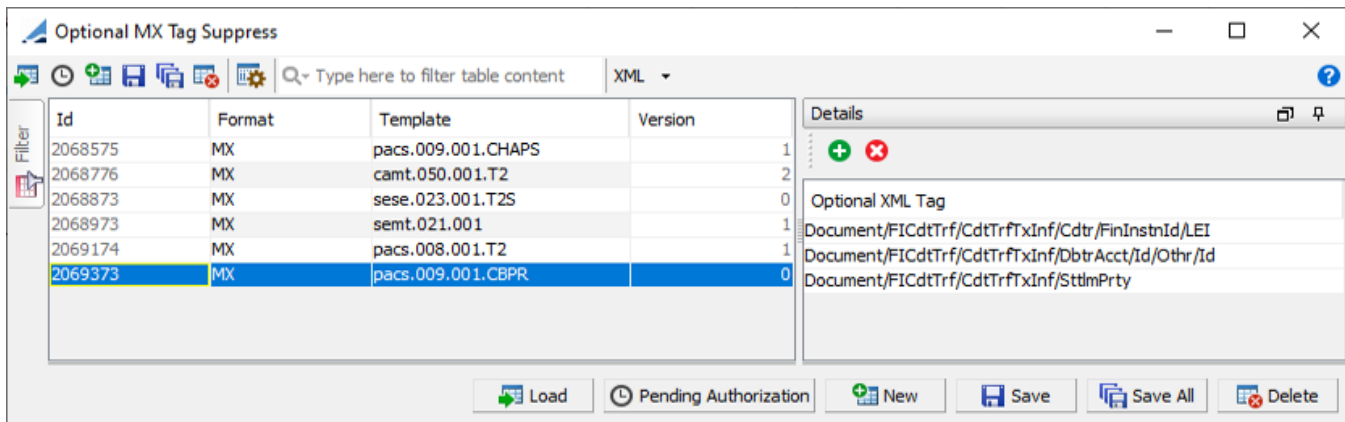
A new feature is provided to disable xml tag population in ISO20022 MX message templates and move them as Optional tags. "Optional MX Tag Suppress" can be configured using action key > refdata.OptionalMXTagSuppressWindow.
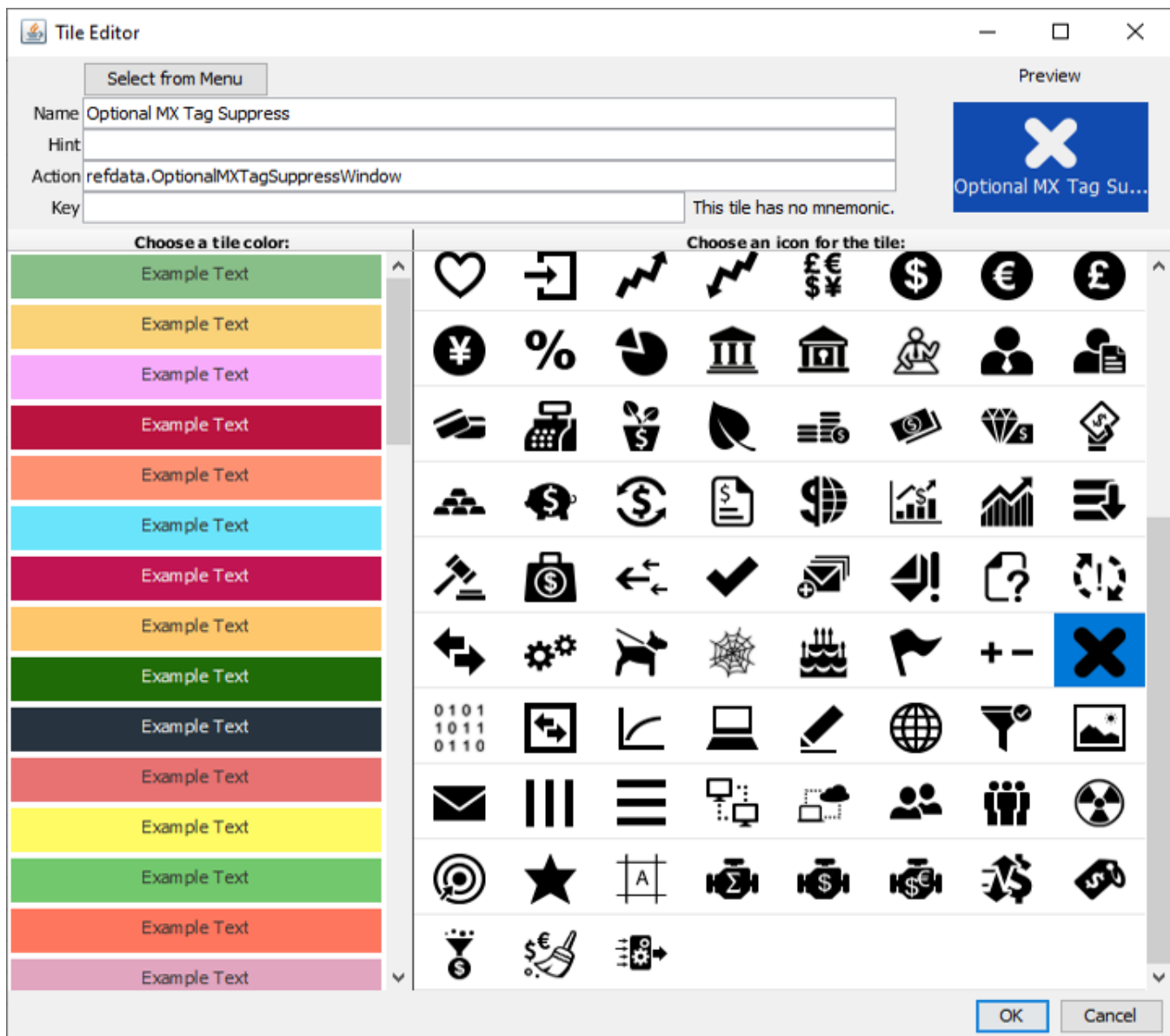
To disable a tag and add it as optional tag:

- Click on **New** .

- Define a config for tags to be suppressed for which select a message format type (ex., MX, SAA) and select a template type.

- Details section will show all the tags that will be suppressed and added as Optional XML Tags.

- Click on **Save** .

The tags are moved from main message to optional tags.

1.4 SAA DataPDU Header

The SAA DataPDU header is slightly different for each jurisdiction.

You can use a different PO contact types to populate specific information in the respective Data PDU headers:

- The <Service> tag can be populated using the MXNetInfoService addressMethod of PO contact type.

- The <DN> Distinguished Name tag under <Sender> can be populated using the MXDistinguishedName addressMethod of sender PO contact type.

- The <DN> Distinguished Name tag under <Receiver> can be populated using the MXDistinguishedName addressMethod of Receiver PO contact type for all jurisdictions, except TARGET2. For TARGET2, the Receiver DN is configured using the domain "MX.T2" as described above.

- The <FullName> tag under <Receiver> is populated using the receiver SWIFT BIC for all jurisdictions except TARGET2. For TARGET2, the full name is set in the domain "MX.T2" as described above.

For example, you can have a message setup for the *Default* PO contact type for CBPR and the *Settlement* PO contract type for Target2.

CBPR message setup and Sender Default contact details

CBPR Message

```
<Sender> (from sender Default contact)
<DN>cn=calyus33,ou=xxx,o=calyus33,o=swift</DN>
<FullName><X1>CALYUS33XXX</X1></FullName>
</Sender>
<Receiver> (from receiver contact)
.../...
</Receiver>
<NetworkInfo> (from sender Default contact)
<Service>swift.finplus!pf</Service>
</NetworkInfo>
```

TARGET2 message setup and Settlement contact details

TARGET2 Message

```
<Sender> (from sender Settlement contact)
<DN>cn=live,ou=esmig,o=calyus33,o=swift</DN>
<FullName><X1>CALYUS33XXX</X1></FullName>
</Sender>
<Receiver> (from MX.T2 domain)
<DN>cn=rtgs,o=trgtxepm,o=swift</DN>
<FullName><X1>TRGTXEPMXXX</X1></FullName>
</Receiver>
<NetworkInfo> (from sender Settlement contact)
<Service>swift.tst2.iast!p</Service>
</NetworkInfo>
```

1.5 Business Application Header

The domain "MX.DisplayAppHeader" allows activating or deactivating the generation of the Business Application Header (BAH) for a given template.

The default is TRUE so if this domain value is not defined then the BAH is generated for the MX Messages.

You can add a template to the domain with Comment = FALSE to deactivate the generation of the BAH. As of now only the SIX jurisdiction allows messages without BAH. BAH is mandatory for all other jurisdictions.

The following BAH fields are supported:

Name	Path	Description
From	/Document/AppHdr/Fr/FIId/FinInstnId/BICFI	Provides the message sender SWIFT details
To	/Document/AppHdr/To/FIId/FinInstnId/BICFI	Provides the message receiver SWIFT details
Business Message Identifier	/Document/AppHdr/BizMsgIdr	Provides the Calypso generated Message ID
Message Definition Identifier	/Document/AppHdr/MsgDefIdr	This field displays the name of the business document. It is dependent on the MX template generated and the defined MX.Version assigned to the template Example - pacs.008.001.08 Irrelevant data (e.g. COV) is removed when populating MsgDefIdr tag as per requirement of respective jurisdiction.
Business Service	/Document/AppHdr/BizSvc	This field identifies which specification the message complies with. The supported elements are: Service Administrator: defaulted to boe Service: defaulted to CHAPS Version: Based on domain MX.BAH.BusinessService.Versions An example of a <BizSvc> is boe.chaps.01
Creation Date	/Document/AppHdrCreDt	Provides the message creation date
Clearing System prop id	/Document/AppHdr/Fr/FIId/FinInstnId/ClrSysMmbId/ClrSysId/Prtry	Only applicable for TARGET2 Check "Sender" (Processing Org) contact type from message setup with addressMethod = T2ClrSysID_Code

Name	Path	Description
		If addressMethod (first preference) is missing for contact type, then populate legal entity attribute (second preference) T2ClrSysID_Code
Clearing System member id	/Document/AppHdr/Fr/FIId/FinInstnId/ClrSysMmbId/MmbId	Only applicable for TARGET2 Check "Sender" (Processing Org) contact type from message setup with addressMethod = T2MmbId_ID If addressMethod (first preference) is missing for contact type then populate legal entity attribute (second preference) T2MmbId_ID
Other Id	SenderAppHeadOtherId: /AppHdr/Fr/FIId/FinInstnId/Other/Id ReceiverAppHeadOtherId: /AppHdr/To/FIId/FinInstnId/Other/Id	Only applicable for TARGET2 Check "Sender" contact type from message setup with addressMethod attributes; SenderAppHeadOtherId : /AppHdr/Fr/FIId/FinInstnId/Other/Id ReceiverAppHeadOtherId: /AppHdr/To/FIId/FinInstnId/Other/Id • If missing in addressMethod for contact type 　Look for the same attributes in LE Attributes • If missing in LE attributes 　Do not populate the tag.

1.6 Generating pacs.008 / pacs.009 and COV Messages

Message fields (some fields are in the cover message for pacs.009 Messages).

Name	Path	Configuration	Description
Message Iden-tification	/Document/FIToFICstmrCdtTrf/GrpHdr/MsgId	System Gen-erated	Provides the Calypso gen-erated Message ID

Name	Path	Configuration	Description
Creation Date Time	/Document/FIToFICstmrCdtTrf/GrpHdr/CreDtTm	System Generated	Provides the message creation system date tine
Number of Transactions	/Document/FIToFICstmrCdtTrf/GrpHdr/NbOfTxs	Default value	Defaulted to 1
Settlement Method	/Document/FIToFICstmrCdtTrf/GrpHdr/SttlmInf/SttlmMtd	Default value	Defaulted to CLRG for RTGS messages like TARGET2, CHAPS, CHATS, etc. For CBPR+, if Cover Message is also sent then populate with "COVE" otherwise populate with "INDA".
Settlement Time Request	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/SttlmTmReq	CPTY SDI Attribute Settlement_CLS_Time Settlement_Till_Time Settlement_From_Time Settlement_Reject_Time	Settlement_CLS_Time attribute value will be populated in CLSTm Settlement_Till_Time attribute value will be populated in TillTm. Settlement_From_Time attribute value will be populated in FrTm. Settlement_Reject_Time attribute value will be populated in RjctTm.
Clearing System	/Document/FIToFICstmrCdtTrf/GrpHdr/SttlmInf/ClrSys/Cd	Default value	Defaulted to STG

Name	Path	Configuration	Description
Instruction Iden- tification	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtId/InstrId	Message keyword INSTRUCTION_ ID	Provides the Calypso gen- erated Message ID or Trade ID, depending on what is pop- ulated in EndtoEndId, MsgId.
End To End Iden- tification	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtId/EndToEndId	Default value	Defaulted to "NOTPROVIDED"
UETR	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtId/UETR	Domain Con- figuration: SWIFT.Tem- plates.GPI	A UETR is gen- erated if the mes- sage template is added to the domain.
Service Level	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtTpInf/SvcLvl/Cd	LE Attribute: SWIFT_GPI	This field is pop- ulated with "001" if the LE Attribute SWIFT_GPI is set on either the PO or CP
Local Instrument	/Docu- ment/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry	Trade Keyword: MXPaymentType	If trade keyword is not given, then this field is defaulted to CRED. See specific logic below for pacs.008.001.SIX / pacs.009.001.SIX messages.
Local Instrument Code	/Document/FICdtTrf/CdtTrfTxInf/PmtTpInf/LclInstrm/Cd	PO SDI attribute LocalIn- strumentCode	
Category Purpose	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/PmtTpInf/CtgyPurp/Cd	Derived value	If PO Parent = CP Parent, then field is set to INTC oth-

Name	Path	Configuration	Description
			erwise field is defaulted to CORT
Interbank Set-tlement Amount, Currency	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/IntrBkSttlmAmt/@Ccy	Trade inform-ation	Populated with the settlement amount and cur-rency
Interbank Set-tlement Date	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/IntrBkSttlmDt	Trade inform-ation	Populated with the Settle Date
Set-tlement Pri-ority	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/SttlmPrty	SDI Attribute: <jurisdiction>.St tlmPrty For T2 messages, it is the PO SDI Attribute: RTGSSttlmPrty	Provides the value as given in the SDI Attribute. Possible values are URGT, HIGH, and NORM.
Instructed Amount, Currency	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/InstdAmt/@Ccy	Trade inform-ation	Populated with the initial amount to be transferred before deduction of any charges
Exchange Rate	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/XchgRate	Trade inform-ation	Populated with the exchange rate, if any.
Charge Bearer	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/ChrgBr	SDI attribute: Details_Of_ Charges See also SDI attribute SenderChargeF eeType below.	Based on value defined in the SDI attribute. If Details_Of_ Charges = OUR then field is populated as "DEBT" If Details_Of_ Charges = BEN, then field is populated as

Name	Path	Configuration	Description
			"CRED"
			If Details_Of_ Charges = SHA, then field is populated as "SHAR"
Charges Inform- ation Amount	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/ChrgsInf/Amt/@Ccy	Based on Fee Type: REMITTANCE	Populated with the REMITTANCE fee amount and currency.
Charges Inform- ation Agent (with BIC)	/Docu- ment/FIToFICst- mrCdtTrf/CdtTrfTxInf/ChrgsInf/Agt/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the LE Contact BIC assigned to the REMITTANCE fee pay- er/receiver
Charges Inform- ation Agent (with Clear- ing Sys- tem Iden- tification "Code")	/Docu- ment/FIToFICst- mrCdtTr- f/CdtTrfTxInf/ChrgsInf/Agt/FinInstnId/ClrSysMmbId/ClrSysId/Cd	LE Attribute: <jur- isdic- tion>ClrSysID_ Code	Populated with the LE Attribute "<jur- isdic- tion>ClrSysID_ Code" assigned to the REMITTANCE fee payer/receiver
Charges Inform- ation Agent (with Clear- ing Sys- tem Iden- tification "Member Iden- tification")	/Docu- ment/FIToFICst- mrCdtTr- f/CdtTrfTxInf/ChrgsInf/Agt/FinInstnId/ClrSysMmbId/MmbId	LE Attribute: <jur- isdic- tion>MmbId_ID	Populated with the LE Attribute "<jur- isdic- tion>MmbId_ID" assigned to the REMITTANCE fee payer/receiver
Instructing Agent	/Docu- ment/FIToFICstmrCdtTrf/CdtTrfTxInf/InstgAgt/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the Sender- .SWIFT

Name	Path	Configuration	Description
Instructed Agent	/Docu-ment/FIToFICstmrCdtTrf/CdtTrfTxInf/InstdAgt/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the Receiv-er.SWIFT
Inter-mediary Agent 1 (with BIC)	/Docu-ment/FIToFICstmrCdtTrf/CdtTrfTxInf/IntrmyAgt1/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the CP Receiving Intermediary 1 BIC Code
Inter-mediary Agent 1 (with Clear-ing Sys-tem Iden-tification "Code")	/Docu-ment/FIToFICst-mrCdtTr-f/CdtTrfTxInf/IntrmyAgt1/FinInstnId/ClrSysMmbId/ClrSysId/Cd	LE Attribute: <jur-isdic-tion>ClrSysID_Code	Populated with the CP Receiving Intermediary 1 LE Attribute "<jur-isdic-tion>ClrSysID_Code"
Inter-mediary Agent 1 (with Clear-ing Sys-tem Iden-tification "Member Iden-tification")	/Docu-ment/FIToFICst-mrCdtTrf/CdtTrfTxInf/IntrmyAgt1/FinInstnId/ClrSysMmbId/MmbId	LE Attribute: <jur-isdic-tion>MmbId_ID	Populated with the CP Receiving Intermediary 1 LE Attribute "<jur-isdic-tion>MmbId_ID"
Inter-mediary Agent 1 Account (with IBAN)	/Docu-ment/FIToFICstmrCdtTrf/CdtTrfTxInf/IntrmyAgt1Acct/Id/IBAN	SDI Attribute: IBAN.In-termediary2 = True or not set	Account inform-ation for the CP Receiving Inter-mediary 1 is given on the SDI field Inter-mediary2 A/C. This field is pop-ulated with Inter-mediary2 A/C details if IBAN.In-termediary2 = True or not set
Inter-	/Docu-	SDI Attribute:	Account inform-

Name	Path	Configuration	Description
mediary Agent 1 Account (with Other)	ment/FIToFICstmrCdtTrf/CdtTrfTxInf/IntrmyAgt1Acct/Id/Othr/Id	IBAN.Intermediary2 = False	ation for the CP Receiving Intermediary 1 is given on the SDI field Intermediary2 A/C. This field is populated with Intermediary2 A/C details if IBAN.Intermediary2 = False
Debtor (with BIC)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/Dbtr/Id/OrgId/AnyBIC	LE Contact: SWIFT value	Populated with the Sender.SWIFT. That is, the PO Beneficiary BIC Code
Debtor Account (with IBAN)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAcct/Id/IBAN	SDI Attribute: IBAN.Agent = True or not set	Account information for the PO is given on the SDI field Agent A/C. This field is populated with Agent A/C details if IBAN.Agent = True or not set
Debtor Account (with Other)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAcct/Id/Othr/Id	SDI Attribute: IBAN.Agent = False	Account information for the PO is given on the SDI field Agent A/C. This field is populated with Agent A/C details if IBAN.Agent = False
Debtor Agent (with BIC)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAgt/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the PO Agent BIC Code
Debtor Agent (with Clear-	/Document/FIToFICst-mrCdtTr-	LE Attribute: <jurisdiction>ClrSysID_	Populated with the PO Agent LE Attribute "<jur-

Name	Path	Configuration	Description
ing System Identification "Code")	f/CdtTrfTxInf/DbtrAgt/FinInstnId/ClrSysMmbId/ClrSysId/Cd	Code	isdiction>ClrSysID_Code"
Debtor Agent (with Clearing System Identification "Member Identification")	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAgt/FinInstnId/ClrSysMmbId/MmbId	LE Attribute: <jurisdiction>MmbId_ID	Populated with the PO Agent LE Attribute "<jurisdiction>MmbId_ID"
Debtor Agent Account (with IBAN)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAgtAcct/Id/IBAN	SDI Attribute: IBAN.Intermediary = True or not set	Account information for the PO Agent is given on the SDI field Intermediary A/C. This field is populated with Intermediary A/C details if IBAN.Intermediary = True or not set
Debtor Agent Account (with Other)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/DbtrAgtAcct/Id/Othr/Id	SDI Attribute: IBAN.Intermediary = False	Account information for the PO Agent is given on the SDI field Intermediary A/C. This field is populated with Intermediary A/C details if IBAN.Intermediary = False
Creditor Agent (with BIC)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAgt/FinInstnId/BICFI	LE Contact: SWIFT value	Populated with the CP Agent BIC Code
Creditor Agent	/Document/FIToFICst-	LE Attribute: <jurisdic-	Populated with the CP Agent LE

Name	Path	Configuration	Description
(with Clearing System Identification "Code")	mrCdtTrf/CdtTrfTxInf/CdtrAgt/FinInstnId/ClrSysMmbId/ClrSysId/Cd	tion>ClrSysID_ Code	Attribute "<jurisdiction>ClrSysID_ Code"
Creditor Agent (with Clearing System Identification "Member Identification")	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAgt/FinInstnId/ClrSysMmbId/MmbId	LE Attribute: <jurisdiction>MmbId_ID	Populated with the CP Agent LE Attribute "<jurisdiction>MmbId_ID"
Creditor Agent Account (with IBAN)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAgtAcct/Id/IBAN	SDI Attribute: IBAN.Intermediary = True or not set	Account information for the CP Agent is given on the SDI field Intermediary A/C. This field is populated with Intermediary A/C details if IBAN.Intermediary = True or not set
Creditor Agent Account (with Other)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAgtAcct/Id/Othr/Id	SDI Attribute: IBAN.Intermediary = False	Account information for the CP Agent is given on the SDI field Intermediary A/C. This field is populated with Intermediary A/C details if IBAN.Intermediary = False
Creditor (with BIC)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/Cdtr/Id/OrgId/AnyBIC	LE Contact: SWIFT value	Populated with the Receiver.SWIFT. That is, the CP Bene-

Name	Path	Configuration	Description
			ficiary BIC Code
Creditor (with Name)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/Cdtr/Nm	SDI Beneficiary Name / CP Long Name	Populated with the Receiver.Long Name.
Creditor (with Address)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/Cdtr/PstlAdr/<postal address>	LE Contact: Address field or address details	Populated with LE Contact Address field or all address details. All address details are populated only if both City and Country are present. Otherwise, only the Address field is populated in the <postal address>. The address details can contain the following codes if they are present in domain "addressMethod" and set in the LE Contact: AddressType, Department, SubDepartment, StreetName, BuildingNumber, Floor, PostBox, Room, PostCode, TownLocationName, DistrictName, CountrySubDivision.

Name	Path	Configuration	Description
Creditor Account (with IBAN)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAcct/Id/IBAN	SDI Attribute: IBAN.Agent = True or not set	Account information for the CP is given on the SDI field Agent A/C. This field is populated with Agent A/C details if IBAN.Agent = True or not set
Creditor Account (with Other)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/CdtrAcct/Id/Othr/Id	SDI Attribute: IBAN.Agent = False	Account information for the CP is given on the SDI field Agent A/C. This field is populated with Agent A/C details if IBAN.Agent = False
Instruction For Next Agent "Instruction Information"	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/InstrForNxtAgt/InstrInf	"Sender to Receiver Info" as seen in the SDI Attributes tab or SenderInfo transfer attribute	Populated with value given in the SDI field "Sender to Receiver Info"
Purpose	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/Purp/Prtry	Trade Keyword: 26T	Populated with value given in the trade keyword "26T"
Remittance Information (Unstructured)	/Document/FIToFICstmrCdtTrf/CdtTrfTxInf/RmtInf/Ustrd	SDI Attribute: Remittance_ Information	Populated with the value given in the SDI Attribute Remittance_ Information
Instruction Priority	/Document/FICdtTrf/CdtTrfTxInf/PmtTpInf/InstrPrty	Transfer Attribute InstructionPriority	The Instruction Priority is populated with transfer attribute InstructionPriority.

For pacs.009 cov, creditor (Cdtr), creditor agent (CdtrAgt) and intermediary agent 1 (IntrmyAgt1) depends on the receiver of pacs.008 message. The Creditor of pacs.009 cov message is the party which will receive funds settled via pacs.009 cov i.e. receiver of the corresponding pacs.008 message. Subsequently, next agents in the payment chain are considered as creditor agent and intermediary agent 1 when configured in the counterparty SDI (see 1.1.5 settlement instructions section for details).

SDI attribute SenderChargeFeeType

You can select the fee type that populates charge amount under ChrgsInf using the SDI attributes SenderChargeFeeType and Details_Of_Charges. The fee type must be defined with attribute Amount_Percentage_Value (fee percentage or fee amount).

If Default_Calculator in Fee Definition is of type "Percentage":

- Fee Amount = Payment Transfer amount * (Amount_Percentage_Value / 100)

If Default Calculator in Fee Definition is of type "NONE":

- Fee Amount = Fixed amount specified in Amount_Percentage_Value

This fee is generated using the transfer workflow rule GenerateFeeXfer.

SDI attribute Details_Of_Charges should be set with allowed values (OUR, BEN, SHA) as per jurisdiction. If it is not set up in SDI and charge information is mandatory in the respective message, it is populated as "SHAR" which means shared charges.

The user needs to set a value in SDI Attribute and basis on that values will be returned in message content in ChrdBr tag.

SDI Attribute "Details_Of_Charges"	Derived Value in "ChrgBr" tag
OUR	DEBT
BEN	CRED
SHA	SHAR
Blank	SHAR

When SDI attribute Details_Of_Charges is set to "BEN" and SenderChargeFeeType SDI attribute is configured with appropriate fee as mentioned above:

- ChrgsInf amount is populated with the fee amount.
- IntrBkSttlmAmt i.e. Interbank Settle Amount = Payment Transfer Amount – Fee Amount

Specific Logic for pacs.008.001.SIX / pacs.009.001.SIX Messages

pacs.009.001.SIX

CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry - Shows trade keyword MXPaymentType if set, or F2FPMT otherwise.

When CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry = CMPPMT then CdtTrfTxInf/PmtTpInf/SvcLvl/Prtry is populated with trade keyword ServiceLvlPmtCode if set, or "000" otherwise.

/Document/FinInstnCdtTrf/CdtTrfTxInf/InstrForNxtAgt/InstrInf - Shows counterparty SDI attribute SIXInstructionToRTGS if set, or is empty otherwise.

We can add a comma "," to separate the values for instance "LIQU,CONF", so it will display in 2 occurrences as below:

<InstrForNxtAgt>

<InstrInf>LIQU</InstrInf>

</InstrForNxtAgt>

<InstrForNxtAgt>

<InstrInf>CONF</InstrInf>

</InstrForNxtAgt>

pacs.008.001.SIX

CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry - Shows trade keyword MXPaymentType if set, or CSTPMT otherwise.

/Document/FinInstnCdtTrf/CdtTrfTxInf/RmtInf/Ustrd is only set with REMITTANCE_INFO if CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry = CSTPMT

/Document/FinInstnCdtTrf/CdtTrfTxInf/RmtInf/Strd is only set with REMITTANCE_INFO if CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry = ESRPMT

/Document/FinInstnCdtTrf/CdtTrfTxInf/RmtInf/Strd/CdtrRefInf/Ref is only set with REMITTANCE_INFO_REF if CdtTrfTxInf/PmtTpInf/LclInstrm/Prtry = ESRPMT

1.7 Generating pacs.008 STP message

- The pacs.008 STP message has enhanced STP feature over and above the pacs.008 and legacy MT 103 STP.

- Name and Postal address are removed from all applicable agents (InstgRmbrsmntAgt, InstdRmbrsmntAgt, ThrdRmbrsmntAgt, IntrmyAgt1, IntrmyAgt2, DbtrAgt, CdtrAgt)

- Selector template (PaymentCOVMXCBPR.selector) is enhanced to pick up pacs.008 STP template if all conditions mentioned below are satisfied:

  SWIFT BIC is present for all applicable agents (InstgRmbrsmntAgt, InstdRmbrsmntAgt, ThrdRmbrsmntAgt, IntrmyAgt1, IntrmyAgt2, DbtrAgt, CdtrAgt)

  Creditor Account (CdtrAcct) is present.

If DbtrAgt & CdtrAgt SWIFT BIC is part of below list of countries then Dbtr/Nm, Cdtr/Nm, DbtrAcct/IBAN, CdtrAcct/IBAN must be present.

Country List (AT, BE, BG, BV, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GF, GI, GP, GR, HR, HU, IE, IS, IT, LI, LT, LU, LV, MQ, MT, NL, NO, PL, PM, PT, RE, RO, SE, SI, SJ, SK, VA, MC, SM, AD)

1.8 Generating pacs.004 Messages

pacs.004 messages are generated by the Party that returns received funds (i.e., party that received a pacs.008/009). pacs.004 must be linked to the pacs.008/009 through the unique payment identifiers.

Return can be for the total amount received or just a partial amount.

Different scenario for pacs.004 generation are explained below.

Scenario 1

- Originator sent pacs.008/pacs.009
- RTGS settled payment to Beneficiary account
- Originator bank sends camt.056 requesting cancellation of pacs.008/pacs.009 sent earlier
- Beneficiary bank responds with pacs.004 to return the funds
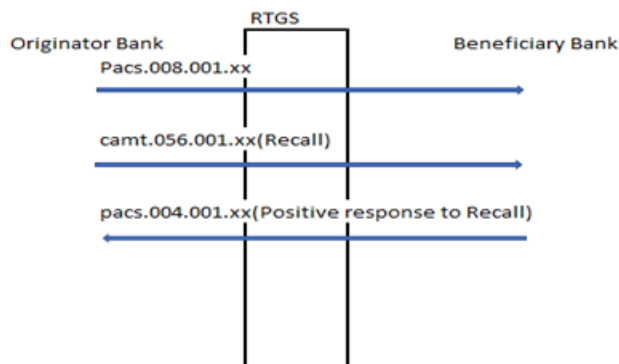
Scenario 2

- Originator sent pacs.008/pacs.009
- RTGS settled payment to Beneficiary account
- Originator bank sends camt.056 requesting cancellation of pacs.008/pacs.009 sent earlier
- Beneficiary bank responds with camt.029 (RJCT status/RJCR for SIX) rejecting to return the funds
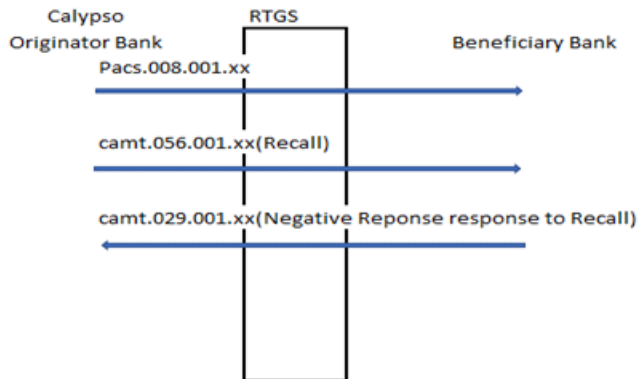
Scenario 3

- Originator sent pacs.008/pacs.009

- Settlement date is in future/warehoused Payment is queued and hence RTGS has not settled payment yet

- Originator bank sends camt.056 requesting cancellation of pacs.008/pacs.009 sent earlier

- RTGS responds with camt.029 (CNCL status) to confirm that pacs.008/pacs.009 sent earlier will never reach the settlement
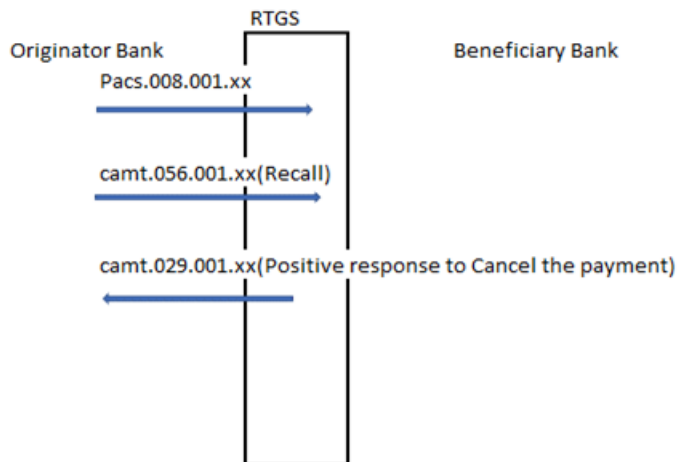
pacs.004 messages are generated when action **RETURN** is applied to a receipt transfer for which an incoming pacs.008/pacs.009 is integrated.

Eligible Transfers to which this action can be applied:

- Transfer is linked to an incoming pacs.008 or pacs.009 message
- Xfer attribute ReturnTransfer and ReturnedTransfer are not true (it cannot be applied on an already returned transfer)

Transfer Return Window

When the RETURN action is applied the Transfer Return window is displayed:

You can modify the amount to be returned as needed and select a return reason (See ISO20022 External Code).

Then click **Ok**.

1. A Simple Transfer trade is created (Transfer Type = RETURN) based on original transfer being returned & data provided in above pop-up window.

XferAttribute ReturnedTransfer = True. This is used to ensure that the RETURN action cannot be applied on same transfer again.

2. The below Trade Keywords are populated on RETURN transfer trade:

- PACS004Direction (If original incoming message is pacs.010 then PACS004Direction = Outgoing, otherwise PACS004Direction = Incoming)
- Returned Xfer Id (contains Xfer Id of the returned transfer)
- ReturnReason (contains Reason code selected by user in RETURN window)
- ReturnAdditionalInformation (contains Additional Information added by user in RETURN window)
- ReturnTransfer (Value = True)

- Apart from different attributes (LinkedMessageIdentifier, LinkedInstructionId, etc.) will be propagated to RETURN Xfer using PropagateTradeKeyword workflow rule. These attributes are populated on original transfer when pacs.008/pacs.009 is integrated successfully

- LinkedMessageIdentifier (contains Xfer Attribute MessageIdentifier of Original transfer)

- LinkedMessageType (contains Xfer Attribute MessageType of Original transfer)

- LinkedInstructionId (contains Xfer Attribute InstructionId of Original transfer)

- LinkedEndToEndId (contains Xfer Attribute EndToEndId of Original transfer)

- LinkedUETR (contains Xfer Attribute UETR of Original transfer)

- LinkedTxId (contains Xfer Attribute TxId of Original transfer)

- LinkedInterbankSettleAmount (contains Xfer Attribute InterbankSettleAmount of Original transfer)

- LinkedInterbankSettleDate (contains Xfer Attribute InterbankSettleDate of Original transfer)

- ReturnInstructingAgentBIC (contains Xfer Attribute InstructedAgentBIC of Original transfer)

- ReturnInstructedAgentBIC (contains Xfer Attribute InstructingAgentBIC of Original transfer)

- InstgAgt_SIXClrSysID_Code

- InstgAgt_SIXMmbId_ID

- InstdAgt_SIXClrSysID_Code

- InstdAgt_SIXMmbId_ID

3. The above attributes are used for the generation of the pacs.004 message.

SDI attribute Details_Of_Charges

SDI attribute Details_Of_Charges should be set with allowed values (OUR, BEN, SHA) as per jurisdiction. If it is not set up in SDI and charge information is mandatory in the respective message, it is populated as N/A (Not populated).

The user needs to set a value in SDI Attribute and basis on that values will be returned in message content in ChrgBr tag.
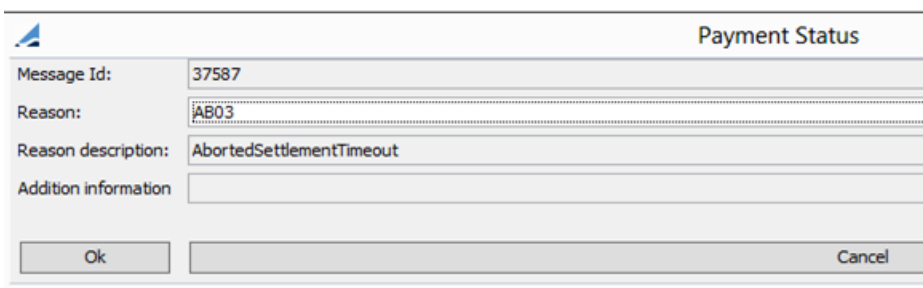
SDI Attribute "Details_Of_Charges"	Derived Value in "ChrgBr" tag
OUR	DEBT
BEN	CRED
SHA	SHAR
Blank	N/A (Not populated)
Any value apart from BEN/OUR/SHA	N/A (Not populated)

1.9 Generating pacs.002.001.CBPR Messages

In the Matching Manager, right-click a pacs.008 / pacs.009 message and choose Matching > Payment Status > REJECT.
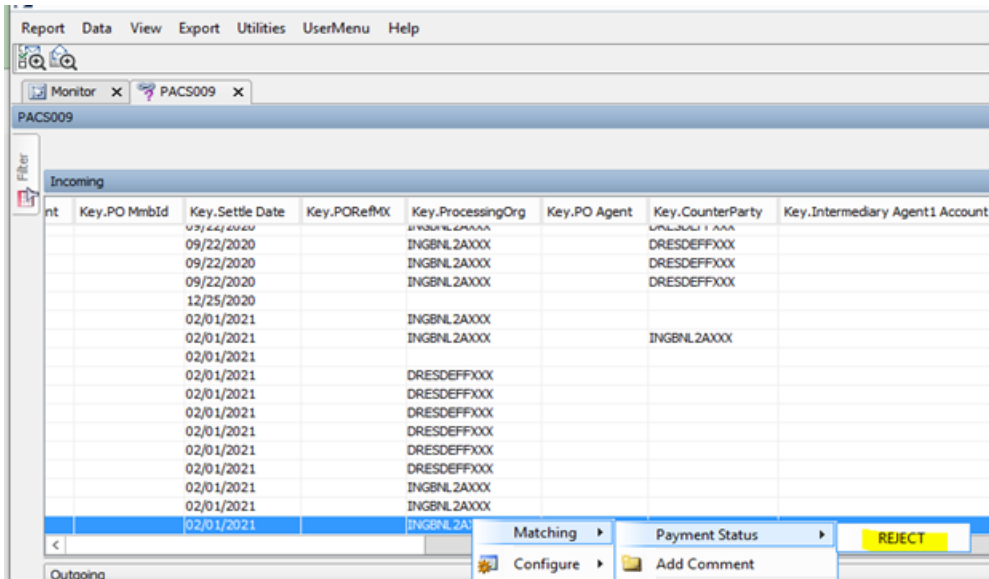
You can also apply the REJECT_PAYMENT action to a pacs.008 / pacs.009 message from the Message report.

You are prompted to provide a reason and click **Ok**.

The pacs.002 message is generated:

The tag BizMsgIdr contains the ID of the rejected pacs.008 / pacs.008 message.

Example:

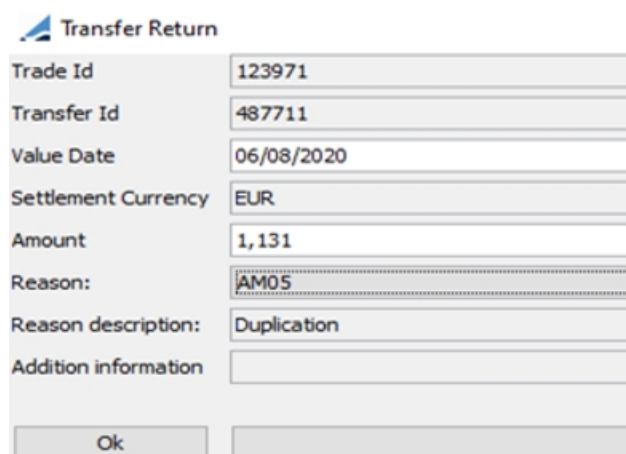<BizMsgIdr>37589</BizMsgIdr>

1.10 Generating camt.029 Messages

camt.029 messages are generated when action REJECT_REQUEST is applied to a receipt transfer for which an incoming pacs.008/pacs.009 is integrated.

Refer to scenario mentioned in section "Generating pacs.004 messages" which are applicable for camt.029 generation.

Eligible Transfers to which this action can be applied:

- Transfer is linked to an incoming pacs.008 or pacs.009 message

Reject Request Window

When the action REJECT_REQUEST is applied, the Reject Request Window is displayed.

- Reason (ISO20022 code) - Stored in transfer attribute CancelReason if its Code Type is Cd or CancelReasonProp if its Code Type is Prtry

- Reason Description (ISO20022 code description)

- Additional Information (free text) – Stored in transfer attribute CancelAdditionalInformation

1.11 Generating camt.055 Messages

For generating a camt.055 message, a Customer Transfer trade shall be booked to generate pain.001 which is moved to ACK so that transfer moves to SETTLED status. RECALL action is then applied on the transfer.

The message camt.055 is generated and linked to pain.001:

The message camt.055 has details of corresponding pain.001.

MX Message Window

Sender	CALYUS33XXX
Receiver	BOFAUS3NXXX
Type	CAMT055

Field Name	Field Value
Sending Institution BIC	CALYUS33XXX
Receiving Institution BIC	BOFAUS3NXXX
Business Message Identifier	462006
Message Definition Identifier	camt.055.001.08
Creation Datetime	2023-08-14T14:35:33+01:00
Assignment Id	462006
Assigner BIC	CALYUS33XXX
Assignee BIC	BOFAUS3NXXX
Creation Date Time	2023-08-14T14:35:33+01:00
Original Payment Init Id	462005
Original Msg Id	462005
Original Msg Name Id	pain.001.001.CBPR.09
Cancellation Id	462005
Case Id	462005
Creator Agent	CALYUS33XXX
Original Instruction Id	152072
Original EndToEnd Id	462005
Original UETR	574696f1-d6c2-4328-b009-85a363cd5f8d
Original Instructed Amount	1400
Cancellation Reason Code	AC03

cvc-enumeration-valid: Value 'AC03' is not facet-valid with respect to enumeration '[DUPL, CUTA, UPAY, CUST, CURR, AGNT, TECH
cvc-type.3.1.3: The value 'AC03' of element 'Cd' is not valid.

```
64              <BICFI>BOFAUS3NXXX</BICFI>
65            </FinInstnId>
66          </Agt>
67        </Assgne>
68        <CreDtTm>2023-08-14T14:35:33+01:00</CreDtTm>
69      </Assgnmt>
70      <Undrlyg>
71        <OrgnlPmtInfAndCxl>
72          <OrgnlPmtInfId>462005</OrgnlPmtInfId>
73          <OrgnlGrpInf>
74            <OrgnlMsgId>462005</OrgnlMsgId>
75            <OrgnlMsgNmId>pain.001.001.CBPR.09</OrgnlMsgNmId>
76          </OrgnlGrpInf>
77          <TxInf>
78            <CxlId>462005</CxlId>
79            <Case>
80              <Id>462005</Id>
81              <Cretr>
82                <Agt>
83                  <FinInstnId>
84                    <BICFI>CALYUS33XXX</BICFI>
```

Print	Display In Browser	Exit

1.12 Generating camt.056 Messages
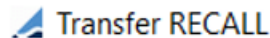
camt.056 messages are generated when the RECALL action is applied on a transfer for which the pacs.008 / pacs.009 / pacs.010 message was generated (recommended approach) or through trade cancellation.

ⓘ **[NOTE: You need to choose one or the other. You cannot configure both options]**

1.12.1 Option 1 - RECALL Action (Recommended Approach)

It is a manual process. Refer to the scenarios mentioned in section "Generating pacs.004 messages" which are applicable for camt.056 generation.

When the RECALL action is applied, the "Transfer RECALL" window is displayed:

- Reason (ISO20022 allowed codes) ISO20022 codes of type CancellationReason should be configured as specified in ISO20022 External Code => This field will be stored as value for transfer attribute CancellationReason if its Code type is Cd (or blank) and CancellationReasonProp if its Code type is Prtry
- Reason Description (ISO20022 code description) – Not modifiable. Name column of External code selected

1.12.2 Option 2 - Trade Cancellation

There is a possibility that a trade is canceled by an external system (outside Calypso) which triggers trade cancellation in Calypso. In such a case, if the transfer is already settled, Calypso creates a new transfer in opposite direction (Receive vs Pay) and there is an expectation to generate a camt.056 message for this transfer if there is a payment message (pacs.008/pacs.009) linked to the original transfer.

In this case, the message setup for camt.056 messages should use the "PaymentCOVMX<jurisdiction>.selector" template.

The rule CheckCancellationReason needs to be added to the VERIFIED - TO_SEND - TO_BE_SENT transition of the PaymentOrder message workflow which is used by pacs.008/pacs.009/camt.056 messages.

This rule checks that the payment cancellation reason code (CxlRsnInf/Rsn/Cd or CxlRsnInf/Rsn/Prop) is populated to avoid failure on the SWIFT network. It only applies to camt.056 messages.

Population of cancellation reason code:

You can setup a default cancellation reason code in the domains "camt056CancellationReason" and "camt056CancellationReasonProp". See above for details.

You can also use the message action UPDATE_CANCEL_REASON to set the cancellation reason code on a camt.056 message.

You need to add it to the PaymentOrder message workflow: VERIFIED - UPDATE_CANCEL_REASON - VERIFIED so that when there is a failure in the workflow due to the CheckCancellationReason rule, this action can be applied to resolve it.

Applying this action opens a popup window that allows selecting the cancellation reason code from the "ISO20022 External Codes".

If you want the ability to change the default cancellation reason code manually, the UPDATE_CANCEL_REASON action can be added to the PaymentOrder message workflow: TO_BE_SENT - UPDATE_CANCEL_REASON - TO_BE_SENT.

1.13 Generating camt.058 Messages

camt.058 messages are generated when the RECALL action is applied on a transfer for which the camt.057 message was generated (recommended approach) or through trade cancellation.

> (!) **[NOTE: You need to choose one or the other. You cannot configure both options]**

1.13.1 Option 1 - RECALL Action (Recommended Approach)

It is a manual process. When the RECALL action is applied, the "Transfer RECALL" window is displayed:

- Reason (ISO20022 allowed codes) ISO20022 codes of type CancellationReason should be configured as specified in ISO20022 External Code => This field will be stored as value for transfer attribute CancellationReason if its Code type is Cd (or blank) & CancellationReasonProp if its Code type is Prtry.

- Reason Description (ISO20022 code description) – Not modifiable. Name column of External code selected.

1.13.2 Option 2 - Trade Cancellation

There is a possibility that a trade is canceled by an external system (outside Calypso) which triggers trade cancellation in Calypso. In such a case, if the transfer is already settled, Calypso creates a new transfer in opposite direction (Receive vs Pay) and there is an expectation to generate a camt.058 message for this transfer if there is a payment message (camt.057) linked to the original transfer.

In this case, the message setup for camt.058 messages should use the "PaymentCOVMXCBPR" template.

The rule CheckCancellationReason needs to be added to the VERIFIED - TO_SEND - TO_BE_SENT transition of the PaymentOrder message workflow which is used by camt.058 messages.

Population of cancellation reason code:

- You can setup a default cancellation reason code in the domains "camt058CancellationReason" and "camt058CancellationReasonProp". See above for details.

- You can also use the message action UPDATE_CANCEL_REASON to set the cancellation reason code on a camt.058 message.

- You need to add it to the PaymentOrder message workflow: VERIFIED - UPDATE_CANCEL_REASON - VERIFIED so that when there is a failure in the workflow due to the CheckCancellationReason rule, this action can be applied to resolve it.

- Applying this action opens a popup window that allows selecting the cancellation reason code from the "ISO20022 External Codes".

If you want the ability to change the default cancellation reason code manually, the UPDATE_CANCEL_REASON action can be added to the PaymentOrder message workflow: TO_BE_SENT - UPDATE_CANCEL_REASON - TO_BE_SENT.

1.14 Handling Custom MX Templates

For APN and CBPR jurisdictions with custom MX templates the following domains are introduced, so that they don't get overridden by out-of-the-box templates upon upgrade:

- MXMessageIdentifiers – It should contain jurisdictions for which the message identifier tags should not be overridden in the MX message templates.

- MXCustomTemplateName – It should contain jurisdictions for which the corresponding MX message templates should not be overridden

2. MX Payment Messages Integration

▶ For the list of supported messages, please refer to Calypso Swift Messages documentation.

MX payment messages are integrated using the scheduled task MESSAGE_MATCHING or using the Import Message engine. The incoming messages are saved as BOMessages and processed by the matchable builder and matching engines based on Matching Context configurations.

▶ For information on generating MX Payment Messages, see [MX Payment Messages Generation](#).

2.1 Setup Requirements

2.1.1 Domain Values

Domain "messageType"

INC_ADMI007

INC_PACS009

INC_PACS008

INC_PACS004

INC_PACS010

INC_PACS002

INC_CAMT025

INC_CAMT029

INC_CAMT056

INC_CAMT060

INC_TRANSMISSIONreport

INC_XSYS002

INC_XSYS003

SEEV032

SEEV033

SEEV034

SEEV036

SEEV041

SEEV044

Domain "incomingType"

ADMI007, Comment = INC_ADMI007

PACS009, Comment = INC_PACS009

PACS008, Comment = INC_PACS008

PACS004, Comment = INC_PACS004

PACS010, Comment = INC_PACS010

PACS002, Comment = INC_PACS002

CAMT025, Comment = INC_CAMT025

CAMT029, Comment = INC_CAMT029

CAMT056, Comment = INC_CAMT056

CAMT060, Comment = INC_CAMT060

TRANSMISSIONreport, Comment = INC_TRANSMISSIONreport

XSYS002, Comment = INC_XSYS002

XSYS003, Comment = INC_XSYS003

SEEV032, Comment = IncomingCA

SEEV034, Comment = INC_CA

SEEV036, Comment = INC_CA

SEEV041, Comment = INC_CA

SEEV044, Comment = INC_CA

SESE023, Comment = INC_CA

Example:

Domain "ExternalMessageField.MessageMapper"

ADMI007

PACS009

PACS008

PACS004

PACS010

PACS002

CAMT025

CAMT029

CAMT056

TRANSMISSIONreport

XSYS002

XSYS003

SEEV034

SEEV036

SEEV041

SESE023

Domain "MappingUpdateXfer"

Amount

EndToEndId

InstrId

InstructedAgentBic

InstructingAgentBic

MessageIdentifier

MessageType

Settle Date

UETR

Domain "exceptionType"

SEEV.032

Domain "MappingIncomingWithContact"

When the SWIFT BIC code is looked up in the LE Contact, it is using Contact Type = ALL by default. Then the corresponding processing org is selected.

You can use another contact type by adding it to the domain "MappingIncomingWithContact":

Value = <message type>

Comment = <LE Contact type to be used to lookup the processing org>

Example:

Value = PACS009
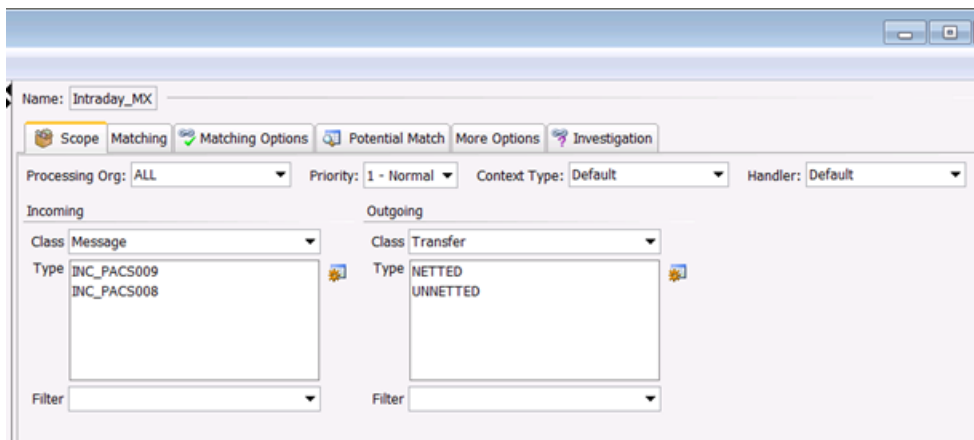
Comment = MatchingSystem

If there is no contact with this contact type, the first contact found is used.

2.1.2 Matching Contexts

INC_PACS008 / INC_PACS009 Matching Context

Sample matching context

Select the matching actions as needed and make sure they are configured in the Incoming Message workflow.
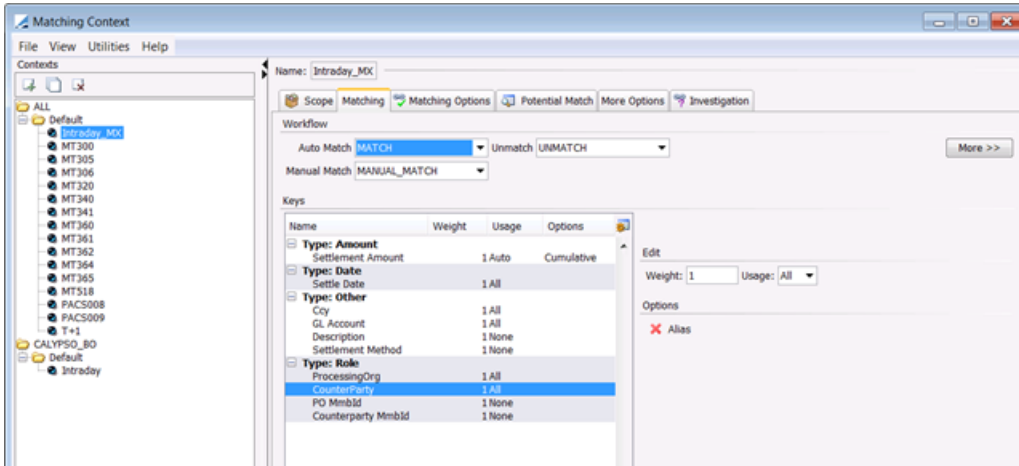
Select the matching keys as needed.

Matching Key	Message Mapping	Xfer Mapping
Matching Key	Message Mapping	Xfer Mapping
PO	PO is the RECEIVER (TO) of the message, if not available check Instructed Agent (<InstdAgt>) tag	Xfer PO
PO MmbId	PO is the RECEIVER (TO) of the message, if not available check Instructed Agent (<InstdAgt>) tag	Xfer PO (MmbId set as Legal Entity Attribute)
Counterparty	Counterparty	Xfer Counterparty
Cpty MmbId	Counterparty member ID	Xfer Counterparty (MmbId set as Legal Entity Attribute)
Settlement Method	Settlement Method from the incoming message: SIX / T2 / CBPR / CHAPS (for info only)	
GL Account	Algorithm checking: Jurisdiction/PO/LegalEntity/Ccy/ Platform.<jurisdiction> = true Example: Platform.SIX = true	Xfer GLAccount
Ccy	ISO Code for the CCY	Xfer Ccy
Settle Date	InterbankSettlementDate	Xfer Settle Date
Settlement Amount	InterbanlSettlementAmount + ISO CCY Code	Xfer Settlement Amount

If you want to be able to generate pacs.002.001.CBPR Messages, you also need to select Allow Payment Status in the More Options panel.
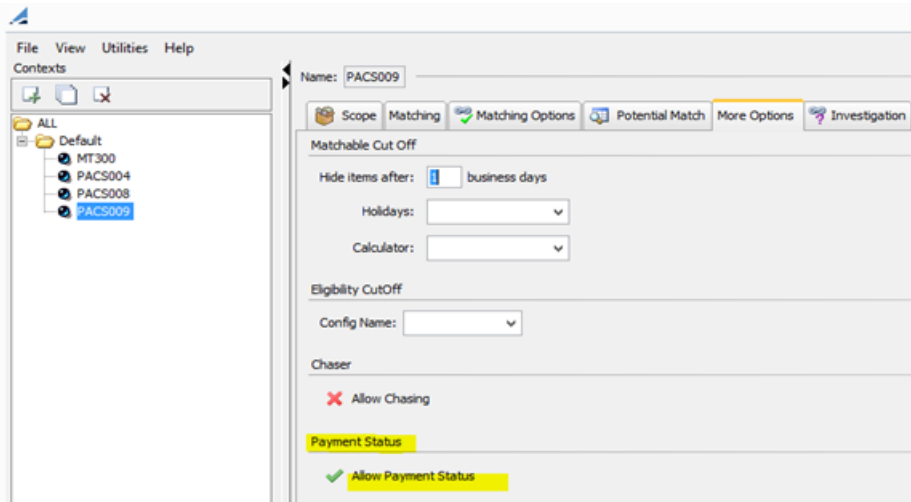
INC_PACS010 Matching Context

Sample matching context

Select the matching actions as needed and make sure they are configured in the Incoming Message workflow.

Select the matching keys as needed.

Matching Key	Message Mapping	Xfer Mapping
ProcessingOrg	PO is the RECEIVER (TO) of the message, if not available check Instructed Agent (<InstdAgt>) tag.	Xfer PO
Ccy	ISO Code for the CCY.	Xfer Ccy
Value Date	InterbankSettlementDate	Xfer Settle Date
Settlement Amount	InterbanlSettlementAmount + ISO CCY Code	Xfer Settlement Amount

2.1.3 Incoming Message Workflows

IMPORTANT NOTE: For the incoming items and outgoing items to be eligible for matching, they need to be in a status that allows the workflow actions defined in the Matching Context to be applied.

For example, if an incoming message is in status VERIFIED and the workflow contains the transition ACKED - MATCH – MATCHED, the incoming message will not be eligible for matching, and a matchable item will not be created for that incoming message. For the incoming message to be eligible for matching in this example, it would need to be in ACKED status.

INC_PACS008 / INC_PACS009 / INC_CAMT057 Message Workflow

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_PACS008 / INC_PACS009

Pacs008/Pacs009 supporting multiple GL accounts

The process of integration of pacs.008 / pacs.009 message to populate appropriate GL account in multiple account scenario has been enhanced. Now, while selecting a GL account with multiple accounts of similar configuration at the clearing house in Pacs008Pacs009FieldMapper for Pacs008 and Pacs009 message, we will check for account attribute "Addressee11carBIC" to the corresponding BIC code that matches with the incoming BIC code. MEPS and APN jurisdictions are recognized for GL account.

INC_PACS004 Message Workflow

A pacs.004 message can be integrated for returning an outgoing pacs.008 / pacs.009 message. The Incoming Linked Message Identifier is linked to the outgoing Message Identifier.

▶ See for information on setting up those identifiers.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_PACS004

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				
UNPROCESSED	MATCH	MATCHED				
MATCHED	PROCESS	PROCESSED	PACS004Return	Y		
UNPROCESSED	CANCEL	CANCELED				

PACS004Return

This workflow rule does the following:

- Links incoming pacs.004 to Original Transfer

  If Message is Linked to another BOMessage or Matched (i.e. attribute MatchedWith contains a value):

    – Retrieve the Transfer associated with the Linked Message

  If Message is not Linked to another BOMessage nor Matched (i.e. attribute MatchedWith does not contain a value):

    – Returns False and transition is not processed

- Applies action RETURN to Linked Transfer - When an incoming pacs.004 is linked to an existing transfer, action RETURN is applied to the linked transfer.

- Sets attribute in Returned Transfer - When action RETURN is applied, XferAttribute ReturnedTransfer is set to "True" on the Transfer where the action was applied (i.e. transfer being returned).

- Creates Simple Xfer Trade and links to original Trade - Simple Xfer trade is created (Return Transfer Transfer Type = RETURN) based on original transfer and incoming message pacs.004.

INC_PACS010 Message Workflow

A pacs.010 message can be integrated for the receipt of an outgoing pacs.008 / pacs.009 message. The Incoming Linked Message Identifier is linked to the outgoing Message Identifier.

▶ See MX Payment Messages Generation for information on setting up those identifiers.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_PACS010

Id	Orig Status	Action	Resulting Status	Create Task	Use STP	Rules	Needs Man. …	Use Comm…	Kick Off / C…	Static Data F…	Transitio…	Priority	Generate Int. Event	Log Comple
2061…	NONE	NEW	UNPROCESSED	Always	False		False	False	False			0	False	False
2061…	PROCESSED	UNMATCH	UNPROCESSED	Always	False		False	False	False			0	False	False
2061…	UNPROCESSED	MANUAL_MATCH	PROCESSED	On Failure	False		False	False	False			0	False	False
2061…	UNPROCESSED	CANCEL	CANCELED	On Failure	False		False	False	False			0	False	False
2061…	UNPROCESSED	UNMATCH	UNMATCHED	Always	False		False	False	False			0	False	False
2061…	UNPROCESSED	REPROCESS	UNPROCESSED	Always	False	ReprocessIncoming	False	False	False			0	False	False
2061…	UNPROCESSED	MATCH	PROCESSED	On Failure	False		False	False	False			0	False	False
2061…	UNMATCHED	MATCH	PROCESSED	On Failure	False		False	False	False			0	False	False
2061…	UNPROCESSED	UPDATE	UNPROCESSED	Always	False		False	False	False			0	False	False
2061…	UNMATCHED	UNMATCH	UNMATCHED	Always	False		False	False	False			0	False	False
2061…	UNMATCHED	UPDATE	UNMATCHED	Always	False		False	False	False			0	False	False
2061…	PROCESSED	CANCEL	CANCELED	On Failure	False		False	False	False			0	False	False

INC_PACS002 Message Workflow

A pacs.002 (FIToFIPaymentStatusReport) message is sent by RTGS to an RTGS actor (or an actor authorized by them) to inform about the status of a previously instructed payment order message. Within RTGS, the FIToFIPaymentStatusReport message is treated as mandatory for all processing failure situations. To receive pacs.002 for successful processing situations, subscription is required.

The FIToFIPaymentStatusReport message is sent in response to:

- FIToFICustomerCreditTransfer (pacs.008) message
- FIToFIFinancialInstitutionCreditTransfer (pacs.009) message
- FinancialInstitutionDirectDebit (pacs.010) message
- PaymentReturn (pacs.004) message

The Incoming Linked Message Identifier is linked to the outgoing Message Identifier.

▶ See MX Payment Messages Generation for information on setting up those identifiers.

The actions to be applied to the outgoing messages can be defined in the domain "MXPmtStatusMessage.Action". The value is the default action and the Comment is the action you want to apply.

Example:

Value = ACK, Comment = PMT_STATUS_ACPT

Value = NACK, Comment = PMT_STATUS_RJCT

The Calypso actions must be defined in the outgoing message workflow.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_PACS002

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				
UNPROCESSED	PROCESS	PROCESSED	HandleMXPaymentStatus	Y		System will always try to apply the wkf at integration. If message cannot be indexed, then message remains UNPROCESSED. Priority of this should be zero.

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
UNPROCESSED	CANCEL	CANCELED				

HandleMXPaymentStatus

This workflow rule does the following:

- Links incoming PACS.002 to OriginalTransfer:

  If Message is Linked to another BOMessage or Matched (i.e. attribute MatchedWith contains a value):

  – Links incoming message to the transfer associated with the Linked Message

  If Message is not Linked to another BOMessage nor Matched (i.e. attribute MatchedWith does not contain a value):

  – Returns False and transition is not processed

- Applies action ACK/NACK to Linked Message:

  When an incoming PACS.002 is linked to an existing message, then applies action on outgoing message depending on TransactionStatus message attribute of acknowledgment.

  By default, it applies ACK if transaction status is in domain "MXPmtStatusACK" or NACK if transaction status is in domain "MXPmtStatusNACK". The action can be customized by defining the Comment of the values ACK and NACK within the domain "MXPmtStatusMessage.Action".

  If transaction status is not in the domains "MXPmtStatusACK" or "MXPmtStatusNACK", no action is applied as it is an intermediate status of pacs.002. It does not block the transition of incoming pacs.002.

  If the action (ACK/NACK) is not configured on outgoing linked message, no action is applied and the transition is not blocked, as this is optional functionality.

  Suggested values in domains "MXPmtStatusACK" and "MXPmtStatusNACK":
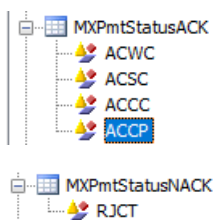
INC_PAIN002 Message Workflow

The CustomerPaymentStatusReport pain.002 is used to inform the previous party in the payment chain about the positive or negative status of an instruction. It is also used to report on a pending instruction.

The pain.002 message is exchanged between an agent and a non-financial institution customer to provide status information on instructions previously sent. Its usage will always be governed by a bilateral agreement between the agent and the non-financial institution customer.

The CustomerPaymentStatusReport message is sent in response to:

- CustomerCreditTransferInitiation (PAIN.001) message

From Calypso perspective, pain.002 with both accept & reject status will be integrated.

After integration, it must be linked to the original PAIN.001.

The actions to be applied to the outgoing messages can be defined in the domain "MXPmtStatusMessage.Action". The value is the default action and the Comment is the action you want to apply.

Example:

Value = ACK, Comment = MXPmtStatusACK

Value = NACK, Comment = MXPmtStatusNACK

The Calypso actions must be defined in the outgoing message workflow.

Domain "messageAction"

Value = MXPmtStatusACK

Value = MXPmtStatusNACK

Suggested values in domains "MXPmtStatusACK" and "MXPmtStatusNACK":
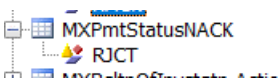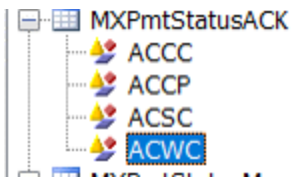
Sample message workflow

Workflow Type = PSEventMessage

PO = ALL

Product = ALL

Subtype = INC_PAIN002

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
UNPROCESSED	PROCESS	PROCESSED	HandleMXPaymentStatus	Y		System will always try to apply the wkf at integration If message cannot be indexed, then message remains UNPROCESSED. Priority of this should be zero.
UNPROCESSED	MATCH	PROCESSED	HandleMXPaymentStatus			
UNPROCESSED	MANUAL_MATCH	PROCESSED				
UNPROCESSED	CANCEL	CANCELED				
PROCESSED	UNMATCH	UNPROCESSED				

HandleMXPaymentStatus

- Checks Transaction Status

  Checks the transaction status (/Document/CstmrPmtStsRpt/OrgnlPmtInfAndSts/TxInfAndSts/TxSts) of incoming message. Calypso should proceed further irrespective of any value in the transaction status.

- Links incoming pain.002 to OriginalTransfer:

  If Message is Linked to another BOMessage or Matched (i.e. attribute MatchedWith contains a value):

  - Link incoming message to the transfer associated with the Linked Message

  If Message is not Linked to another BOMessage nor Matched (i.e. attribute MatchedWith does not contain a value):

  - Returns False and transition is not processed

- Applies action ACK/NACK to Linked Message:

  When an incoming pain.002 is linked to an existing message, then apply action on outgoing message depending on TransactionStatus message attribute of acknowledgement.

  By default, it should apply ACK if transaction status is in domain MXPmtStatusACK and NACK if transaction status is in domain MXPmtStatusNACK. The action can be customized by defining the Comment of the values ACK and NACK within the domain "MXPmtStatusMessage.Action". If transaction status is not mentioned in domain MXPmtStatusACK or MXPmtStatusNACK, then do not apply any action as it is an intermediate status. It should not block the transition of incoming pain.002.

  If the action (ACK/NACK) is not configured on outgoing linked message, then do nothing (i.e. transition of incoming message should not be blocked) as this is an optional functionality.

INC_CAMT025 Message Workflow

A camt.025 message is integrated in response to an outgoing camt.050 / camt.029 message.

The actions to be applied to the outgoing messages can be defined in the domain "MXRctMessage.Action". The value is the default action and the Comment is the action you want to apply.

Example:

Value = ACK, Comment = RCT_STATUS_ACPT

Value = NACK, Comment = RCT_STATUS_RJCT

The Calypso actions must be defined in the outgoing message workflow.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_CAMT025

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				
UNPROCESSED	PROCESS	PROCESSED	HandleMXReceipt	Y		System will always try to apply the wkf at integration. If message cannot be indexed, then message remains UNPROCESSED. Priority of this should be zero.
UNPROCESSED	CANCEL	CANCELED				

HandleMXReceipt

This rule does the following:

- Determines the ReturnedStatus message attribute (ACK or NACK) of incoming message based on RequestType and StatusCode - See table below.
- Copies attributes from incoming camt.025 to Original Message & Link Transfer

   If Message is Linked to another BOMessage or Matched (i.e. corresponding outgoing msg found):

   – Copies RctDatetime, StatusCode, message attributes of incoming message to linked outgoing message being ACKed or NACKed

   – Links the incoming message to the transfer which is linked to outgoing message

   If Message is not Linked to another BOMessage:

   – Returns False and transition is not processed

- Applies Action ACK/NACK to Linked Message:

  When an incoming camt.025 is linked to an existing message, applies action on outgoing message depending on ReturnedStatus message attribute of acknowledgment.

  By default, it applies ACK for ACK and NACK for NACK. The action can be customized by defining the Comment of the values ACK and NACK within the domain "MXRctMessage.Action".

RequestType	StatusCode	ReturnedStatus
VSTS	x999	NACK
XSTS	ACPT	ACK
XSTS	x999	NACK
XSTS	COMP	ACK
SSTS	x999	NACK
SSTS	SSET	ACK
CSC	ACCP	ACK
CSC	RJCT	NACK
006 (MEPS only)	FAIL	NACK
006 (MEPS only)	PASS	ACK

INC_CAMT029 Message Workflow

A camt.029 message is integrated in response to an outgoing camt.056 message.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_CAMT029

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				
UNPROCESSED	PROCESS	PROCESSED	HandleMXRsltnOfInvstgtn	Y		System will always try to apply the wkf at integration. If message cannot be indexed, then mes-

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
						sage remains UNPROCESSED. Priority of this should be zero.
UNPROCESSED	MATCH	PROCESSED	HandleMXRsltnOfInvstgtn			
UNPROCESSED	MANUAL_ MATCHATCH	PROCESSED				
UNPROCESSED	CANCEL	CANCELED				
PROCESSED	UNMATCH	UNPROCESSED				
PROCESSED	CANCEL	CANCELED				

HandleMXRsltnOfInvstgtn

This rule does the following:

- Checks the Confirmation Status of the incoming camt.029 (/Document/RsltnOfInvstgtn/Sts/Conf). If it is RJCR or CNCL, the process is as follows.

  If Confirmation Status is different from RJCR or CNCL, no more action is performed, the message stays in UNPROCESSED status.

- Links incoming Camt.029 to Original Transfer:

  If Message is Linked to another BOMessage:

  – Links incoming message to the transfer associated with the Linked Message, by setting the transfer Id on the incoming message

  If Message is not Linked to another BOMessage:

  – Returns False and transition is not processed.

- Applies REJECT_RECALL action to the Original Transfer associated with the Linked Message for Confirmation Status = RJCR

  If the action REJECT_RECALL is not configured on Original Transfer, the message moves to the next status without doing anything.

  The action REJECT_RECALL should be configured with workflow rule "RemoveXferAttributes":

  – When the CANCEL action was done, a Recall_Date was added to the transfer;

  – Then when the REJECT_RECALL is done, the workflow rule RemoveXferAttributes removes the Recall_Date.

  By default, it applies REJECT_RECALL if configured in the workflow. The action can be customized by defining the Comment of the value RJCR within the domain "MXRsltnOfInvstgtn.Action".

Name: MXRsltnOfInvstgtn.Action
Value: RJCR
Comment: REJECT_RECALL

- Applies CANCEL action to the Original Transfer associated with the Linked Message for Confirmation Status = CNCL

  By default, it applies CANCEL if configured in the workflow. The action can be customized by defining the Comment of the value CNCL within the domain "MXRsltnOfInvstgtn.Action".

Name: MXRsltnOfInvstgtn.Action
Value: CNCL
Comment: CANCEL

INC_CAMT056 Message Workflow

A camt.056 message is integrated to cancel an outgoing pacs.008 / pacs.009 message.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_CAMT056

Orig Status	Action	Resulting Status	Wkf Rule	STP	Filter	Comment
NONE	NEW	UNPROCESSED				
UNPROCESSED	PROCESS	PROCESSED	HandleMXPmtCancellation	Y		
UNPROCESSED	CANCEL	CANCELED				
PROCESSED	CANCEL	CANCELED				

HandleMXPmtCancellation

This rule does the following:

- Links incoming camt.056 to Original Transfer:

  If Message is Linked to another BOMessage or Matched (i.e. attribute MatchedWith contains a value):

  – Links incoming message to the transfer associated with the Linked Message

  If Message is not Linked to another BOMessage nor Matched (i.e. attribute MatchedWith does not contain a value):

- – Returns False and transition is not processed
- Applies action REQUEST to Linked Transfer.

  By default, it applies REQUEST if configured in the workflow. The action to be applied can be customized in the domain "MXPmtCancellationMessage.Action".

INC_ADMI007 / INC_TRANSMISSIONreport / INC_XSYS002 / INC_XSYS003 Message Workflow

An admi.007 message can be integrated to inform that an outgoing message has a validation error.

A transmission.report message can be integrated to acknowledge an outgoing message.

An xsys.002 message can be integrated to acknowledge an outgoing pacs.008 / pacs.009 message.

An xsys.003 message can be integrated to reject an outgoing pacs.008 / pacs.009 message.

The incoming LinkedOriginalMsgId is linked to the outgoing EndToEndId.

▶ See [MX Payment Messages Generation](#) for information on setting up those identifiers.

Sample message workflow

Workflow Type = PSEventMessage

PO = ALL or specific PO

Product = ALL

Subtype = INC_ADMI007 / INC_TRANSMISSIONreport / INC_XSYS002 / INC_XSYS003

Id	Orig Status	Action	Resulting Status	Create Task	Use STP	Same User	Rules
222243	UNPROCESSED	UNMATCH	UNMATCHED	On Failure	False	True	
222242	NONE	NEW	UNPROCESSED	On Failure	False	True	
222241	UNPROCESSED	PROCESS	PROCESSED	On Failure	True	True	HandleMX_ACK_NACK
222240	UNPROCESSED	MATCH	PROCESSED	On Failure	False	True	
222247	UNPROCESSED	CANCEL	CANCELED	On Failure	False	True	
222246	UNPROCESSED	MANUALMATCH	PROCESSED	On Failure	False	True	
222245	PROCESSED	UPDATE	UPDATED	On Failure	True	True	UpdateTransfer
222244	PROCESSED	CANCEL	CANCELED	On Failure	False	True	
222249	PROCESSED	UNMATCH	UNPROCESSED	On Failure	False	True	
222248	UNPROCESSED	AUTOMATCH	PROCESSED	On Failure	False	True	

You need to add the HandleMX_ACK_NACK rule on the UNPROCESSED – PROCESS – PROCESSED transition.

HandleMX_ACK_NACK

This rule does the following:

- Links incoming INC_TRANSMISSIONreport / xsys.002 / xsys.003 to outgoing pacs.008 / pacs.009, links incoming admi.007 to outgoing message

If message is linked to another BOMessage:

- Link incoming message to the outgoing message using RequestRef.

If message is not linked to another BOMessage:

- Returns false and transition is not processed.

- Applies ACK or NACK action to the outgoing message:

  If the incoming message is xsys.002: applies ACK on the linked message;

  If the incoming message is xsys.003: applies NACK on the linked message and sets the message attribute 3rdPartyRefusalReason on the linked message from tag ThirdPartyRefusalReason if present.

  The actions can be customized by defining the Comment of the values ACK and NACK within the domain "SwiftMessage.Action".

INC_ADMI007

After importing the incoming message admi.007, the system first tries to index it by using the Outgoing Message Identifier config / Incoming Linked Message Identifier config windows and if no configuration found in those windows, the system finds the outgoing message for which the Message_Id has the same value as the LinkedOriginalMsgId of the incoming admi.007.

INC_TRANSMISSIONreport

The indexation of the incoming TransmissionReport is done using the <Saa:SenderReference> and the Message_Id of an outgoing message. The system checks in the tag <RequestType> that the first 8 characters match the template name like pacs.008 or pacs.009 of the outgoing message.

The HandleMX_ACK_NACK rule applies the ACK action if NetworkDeliveryStatus is in domain "MXNetworkDeliveryStatusACK" and the NACK action if NetworkDeliveryStatus is in domain "MXNetworkDeliveryStatusNACK". If NetworkDeliveryStatus is not mentioned in these domains, no action is applied.

The actions can be customized by defining the Comment of the values ACK and NACK within the domain "SwiftMessage.Action".

Domain "MXNetworkDeliveryStatusACK" contains Value = NetworkAcked.

Domain "MXNetworkDeliveryStatusNACK" contains Value = NetworkNacked.

2.2 Message Integration

2.2.1 INC_ADMI007

Incoming Fields saved as MsgAttributes

Message Attribute	Admi.007 Path
LinkedOriginalMsgId	/Document/RctAck/Rpt/RltdRef/Ref
RequestStatusCode	/Document/RctAck/Rpt/ReqHdlg/StsCd
RequestStatusDescription	/Document/RctAck/Rpt/ReqHdlg/Desc

2.2.2 INC_PACS008 / INC_PACS009

Incoming Fields saved as MsgAttributes

The following MsgAttributes are saved:

Account

Amount

Ccy

InstrId

EndToEndId

UETR

Settlement Method

MessageIdentifier

MessageType

InterbankSettleDate

InstructingAgentBIC

InstructedAgentBIC

ConfirmationStatus

CancelReason

CancelReasonProp

CancelAdditionalInformation

MsgAttributes saved as XferAttributes

The following XferAttributes are supported:

MessageIdentification

MessageType

InstructionId

EndToEndId

UETR

InterbankSettleAmount

InterbankSettleDate (ISO20022 format: yyyy-MM-DD)

InstructingAgentBIC

InstructedAgentBIC

ConfirmationStatus

CancelReason

CancelReasonProp

CancelAdditionalInformation

2.2.3 INC_CAMT025

Incoming Fields saved as MsgAttributes

Message Attribute	CAMT.025 Path
RctDatetime	From Business Application Header: field <CreDt>
LinkedOriginalMsgId	/Document/Rct/RctDtls/OrgnlMsgId/MsgId
ReturnedStatus	ACK or NACK - Logic described under rule HandleMXReceipt
StatusCode	First /Document/Rct/RctDtls/ReqHdlg/StsCd
StatusCodeDesc	/Document/Rct/RctDtls/ReqHdlg/Desc
RequestType	/Document/Rct/MsgHdr/ReqTp/Prtry/Id
RejectErrorCode	Second /Document/Rct/RctDtls/ReqHdlg/StsCd

2.2.4 INC_CAMT029

After importing the incoming message camt.029, the system finds the outgoing message camt.056 that contains the message attribute LinkedOriginalMsgId with same value as the message attribute of the incoming message.

Incoming Fields saved as MsgAttributes

Message Attribute	camt.029 Path
BusinessMessageIdentifier	From Business Header: field BizMsgIdr
LinkedOriginalMsgId	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/OrgnlGrpInf/OrgnlMsgId
LinkedMessageType	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/OrgnlGrpInf/OrgnlMsgNmId
LinkedInstructionId	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/OrgnlInstrId
LinkedEndToEndId	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/OrgnlEndToEndId
LinkedUETR	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/OrgnlUETR
ConfirmationStatus	/Document/RsltnOfInvstgtn/Sts/Conf
CancelReason	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/CxlStsRsnInf/Rsn/Cd
CancelReasonProp	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/CxlStsRsnInf/Rsn/Prtry
CancelAdditionalInformation	/Document/RsltnOfInvstgtn/CxlDtls/TxInfAndSts/CxlStsRsnInf/AddtlInf

2.2.5 INC_CAMT056

After importing the incoming message (camt.056), the system finds the linked incoming message (pacs.008/pacs.009 previously integrated) using below logic of comparing message attributes:

- LinkedOriginalMsgId of camt.056 = MessageIdentifier of pacs.008/pacs.009
- LinkedMessageType of camt.056 = MessageType of pacs.008/pacs.009
- LinkedInstructionId of camt.056 = InstrId of pacs.008/pacs.009
- LinkedTxId of camt.056 = TxId of pacs.008/pacs.009

If above criteria is satisfied, camt.056 is linked to corresponding pacs.008/pacs.009.

Incoming Fields saved as MsgAttributes

Message Attribute	CAMT.056 Path
BusinessMessageIdentifier	From Business Header: field BizMsgIdr
LinkedOriginalMsgId	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlGrpInf/OrgnlMsgId
LinkedMessageType	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlGrpInf/OrgnlMsgNmId
LinkedInstructionId	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlInstrId
LinkedEndToEndId	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlEndToEndId
LinkedUETR	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlUETR
LinkedTxId	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlTxId
LinkedSettlementAmount	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlIntrBkSttlmAmt

Message Attribute	CAMT.056 Path
LinkedSettlementAmountCcy	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlIntrBkSttlmAmt
LinkedSettlementDate	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/OrgnlIntrBkSttlmDt
InstgAgt_SIXClrSysID_Code	/Document/FIToFIPmtCxlReq/Assgnmt/Assgnr/Agt /FinInstnId/ClrSysMmbId/ClrSysId/Cd
InstgAgt_SIXMmbId_ID	/Document/FIToFIPmtCxlReq/Assgnmt/Assgnr/Agt /FinInstnId/ClrSysMmbId/MmbId
InstdAgt_SIXClrSysID_Code	/Document/FIToFIPmtCxlReq/Assgnmt/Assgne/Agt /FinInstnId/ClrSysMmbId/ClrSysId/Cd
InstdAgt_SIXMmbId_ID	/Document/FIToFIPmtCxlReq/Assgnmt/Assgne/Agt /FinInstnId/ClrSysMmbId/MmbId
InstructingAgentBIC	/Document/FIToFIPmtCxlReq/Assgnmt/Assgnr/Agt/FinInstnId/BICFI
InstructedAgentBIC	/Document/FIToFIPmtCxlReq/Assgnmt/Assgne/Agt/FinInstnId/BICFI
CancellationReasonCode	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/CxlRsnInf/Rsn/Cd
AdditionalInformation	/Document/FIToFIPmtCxlReq/Undrlyg/TxInf/CxlRsnInf/AddtlInf

2.2.6 INC_PACS002

Incoming Fields saved as MsgAttributes

Message Attribute	PACS.002 Path
BusinessMessageIdentifier	From Business Header: field BizMsgIdr
LinkedOriginalMsgId	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlGrpInf/OrgnlMsgId OR /Document/FIToFIPmtStsRpt/OrgnlGrpInfAndSts/OrgnlMsgId
LinkedMessageType	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlGrpInf/OrgnlMsgNmId OR /Document/FIToFIPmtStsRpt/OrgnlGrpInfAndSts/OrgnlMsgNmId
LinkedTxId	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlTxId
LinkedInstructionId	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlInstrId
LinkedEndToEndId	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlEndToEndId
LinkedUETR	/Document/FIToFIPmtStsRpt/TxInfAndSts/OrgnlUETR
TransactionStatus	/Document/FIToFIPmtStsRpt/TxInfAndSts/TxSts
StatusReasonInformation	/Document/FIToFIPmtStsRpt/TxInfAndSts/StsRsnInf/Rsn/Prtry OR /Document/FIToFIPmtStsRpt/TxInfAndSts/StsRsnInf/Rsn/Cd (whichever is available)

Message Attribute	PACS.002 Path
EffectiveInterbankSettlementDate	/Document/FIToFIPmtStsRpt/TxInfAndSts/FctvIntrBkSttlmDt/DtTm
ClearingSystemReference	/Document/FIToFIPmtStsRpt/TxInfAndSts/ClrSysRef

2.2.7 INC_TRANSMISSIONreport

Incoming Fields saved as MsgAttributes

Message Attribute	TransmissionReport Path
LinkedOriginalMsgId	\<Saa:SenderReference\>
ReconciliationInfo	\<Saa:ReconciliationInfo\> if present
NetworkDeliveryStatus	\<Saa:NetworkDeliveryStatus\>
LinkedMessageType	\<Saa:RequestType\>
Severity	First occurrence of \<SwGbl:Severity\> if present
ErrorCode	First occurrence of \<SwGbl:Code\> if present
ErrorDescription	First occurrence of \<SwGbl:Text\> if present

2.2.8 INC_XSYS002 / INC_XSYS003

Incoming Fields saved as MsgAttributes

Message Attribute	xsys.002 Path
LinkedOriginalMsgId	Doc:Document/Doc:xsys.002.001.01/Doc:AuthstnNtfctn/SwInt:RequestHeader/SwInt:RequestRef
LinkedMessageType	Doc:Document/Doc:xsys.002.001.01/Doc:AuthstnNtfctn/SwInt:RequestHeader/SwInt:RequestType
3rdPartySenderInfo	Doc:Document/Doc:xsys.002.001.01/Doc:AuthstnNtfctn/Sw:ThirdPartyToSenderInformation

Message Attribute	xsys.003 Path
LinkedOriginalMsgId	Doc:Document/Doc:xsys.003.001.01/Doc:AuthstnNtfctn/SwInt:RequestHeader/SwInt:RequestRef
LinkedMessageType	Doc:Document/Doc:xsys.003.001.01/Doc:AuthstnNtfctn/SwInt:RequestHeader/SwInt:RequestType

Message Attribute	xsys.003 Path
3rdPartyRe-fusalReason	Doc:Document/Doc:xsys.003.001.01/Doc:AuthstnRfslNtfctn/Sw:ThirdPartyRefusalReason

2.2.9 INC_CAMT060

When Importing the CAMT.060 (identified using <MsgDefIdr> from <AppHdr>), store below fields as Message attributes.

Message Attribute	CAMT.060 Path
BusinessMessageIdentifier	From Business Header: field BizMsgIdr
StatementTypeRequested	/Document/AcctRptgReq/RptgReq/ReqdMsgNmId
AccountId	/Document/AcctRptgReq/RptgReq/Acct/Id/IBAN **OR** /Document/AcctRptgReq/RptgReq/Acct/Id/Othr/Id (Only one will be available)
AccountOwner	/Document/AcctRptgReq/RptgReq/AcctOwnr/Pty/Id/OrgId/AnyBIC **OR** /Document/AcctRptgReq/RptgReq/AcctOwnr/Agt/FinInstnId/BICFI (Only one will be available)
GL Account	The Account Name as found using the search algorithm

2.3 Import Message Engine

MX messages can be imported using the Import Message engine.

(name MXImportMessageEngine, class `com.calypso.engine.advice.ImportMessageEngine`)

The MXImportMessageEngine imports MX messages.

The "config" engine parameter is config = MX

You need to have a file named "calypso_mx_config.properties" to configure the connectivity parameters to the JMS.