Real-time gross settlement

User detailed functional specifications

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4 Business day
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5.3 Business day management

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5.5 Archiving management

5.6 Trouble management
6 Application processes description

6.1 Payment types

6.1.1 Overview

6.1.2 Definition of execution time

Direct RTGS participants have the possibility to determine the settlement time of their transactions. The following options are available:

- transactions with an “earliest debit time indicator”
- transactions with a “latest debit time indicator”

The following table describes payments with a set execution time.

<table>
<thead>
<tr>
<th>Features</th>
<th>Earliest debit time indicator</th>
<th>Latest debit time indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Transactions to be executed from a certain time (codeword: FROTIME)</td>
<td>option a: transactions to be executed up to a certain time (codeword: /REJTIME/)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>option b: transactions which should be executed up to certain time (only warning indicator) (codeword: /TILTIME/)</td>
</tr>
<tr>
<td>Effect</td>
<td>Transaction is stored until the indicated time.</td>
<td>Setting the execution time only means a special identification via the U2A or A2A query.</td>
</tr>
<tr>
<td></td>
<td>At the earliest debit time, the transaction runs through the entry disposition.</td>
<td>The transaction is treated like any other payment of this type.</td>
</tr>
<tr>
<td>Management</td>
<td>If the transaction cannot be settled at the earliest debit time, it will be queued till cut-off time for payment type is reached (or revoked).</td>
<td>If the transaction cannot be settled until the indicated debit time,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>option a: the payment will be rejected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>option b: the payment will remain in the queue.</td>
</tr>
</tbody>
</table>

In case a payment with a “latest debit time indicator” is not executed 15 minutes prior to the defined time, an automatic notification in the GUI will be triggered. The notification will be directly displayed on top of all screens of the participant whose account will be debited.

Note: In case the codeword /CLSTIME/ is used, the payment will be treated in the same way as a payment with a “latest debit time indicator”, option b.
It is possible to combine the “earliest debit time indicator” with the “latest debit time indicator” (option a + b). In case of option a, the transaction is meant to be executed during the indicated period.

The defined execution time of a payment can be changed if the payment is not executed yet. Effect of changing settlement time see chapter Amendment of payments [☞ 27].

**Note:** It is no longer possible to change the “earliest debit time indicator” of a payment which is queued due to the fact that the original “earliest debit time indicator” has been reached and it was already tried to settle this payment.

### 6.1.3 Warehouse functionality

**Basics**

It is possible to submit payments up to 10 calendar days in advance. In this case, the payment message is warehoused until RTGS service opens for that business date.

**Note:** In case a change in SWIFT standards or formats is performed warehoused payments with an execution time beyond this point in time cannot be stored in the RTGS service. This will be technically ensured by the RTGS service.

**Rules**

The validation of warehoused payments is a three layer approach:

- SWIFT format checks on the day of submission
- format checks by RTGS service already on the day of submission
- content check (e.g., valid BICs) on the value day

No checks are made by RTGS in the time between.

**Processing on value day**

On the value date with the start of the day trade phase the warehoused payments are processed by RTGS service (with entry timestamp same like start of day trade) on top of the queue of incoming payments which have the same priority. They will be immediately settled if enough liquidity is available (normal processing of payments in the entry disposition, see chapter Entry disposition [☞ 31]). Otherwise they are queued until the settlement attempt is successful (see chapter Dissolution of the payment queue [☞ 31]).

**Exception:** Warehoused payments with an “earliest debit time indicator” are queued until the set execution time is reached.

**Information and control functions**

Warehoused payments benefit from the same functionality via U2A or A2A as queued payments:
transparency about the status and other detailed information about the payment
- cancellation
- change of priority
- change of execution time ("earliest and latest debit time indicator") if set in the warehoused payment.

6.1.4 Backup payments

6.1.4.1 Backup contingency payments

Objective
Backup contingency payments are intended to meet obligations and demands arising from the settlement and funding process of systems, for which templates are predefined in the system (CLS pay-ins, payments to the EURO1 collateral account, pay-ins to the EURO1 prefunding account related to the liquidity bridge between RTGS and EURO1).

Rules for CLS payments
The table below gives the rules for backup contingency payments to CLS.

<table>
<thead>
<tr>
<th>Payment priority</th>
<th>Urgent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>via the GUI</td>
</tr>
<tr>
<td>Message type</td>
<td>Pacs.009</td>
</tr>
<tr>
<td>Sender of this message</td>
<td>RTGS DN</td>
</tr>
<tr>
<td>Receiver of this message</td>
<td>CLS DN</td>
</tr>
<tr>
<td>Fields for input via GUI</td>
<td></td>
</tr>
<tr>
<td>Fields predefined (cannot be changed)</td>
<td></td>
</tr>
<tr>
<td>Tag in the payment message</td>
<td></td>
</tr>
<tr>
<td>Tag in the statement message</td>
<td></td>
</tr>
<tr>
<td>Tag in the A2A payment queue</td>
<td></td>
</tr>
<tr>
<td>Tag in the U2A payment queue</td>
<td>Backup payment</td>
</tr>
</tbody>
</table>

Rules for backup contingency payments to EURO1 collateral account
The table below gives the rules for backup contingency payments to the EBA related to EURO1 collateral account:

<table>
<thead>
<tr>
<th>Type of payment</th>
<th>High payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>via the GUI</td>
</tr>
</tbody>
</table>
### Message type
- Pacs.009

### Sender of this message
- RTGS DN

### Receiver of this message
- EBA DN (for collateral account)

### Fields for input via GUI

### Fields predefined (cannot be changed)

### Tag in the payment message

### Tag in the statement message

### Tag in the A2A payment queue

### Tag in the U2A payment queue
- Backup payment

#### Rules for backup contingency payments to EURO1 pre-settlement account (liquidity bridge)

The table below gives the rules for backup contingency payments to the EURO1 pre-settlement account (liquidity bridge between RTGS and EURO1):

<table>
<thead>
<tr>
<th>Type of payment</th>
<th>High payment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generation</td>
<td>via the GUI</td>
</tr>
<tr>
<td>Message type</td>
<td>Pacs.009</td>
</tr>
<tr>
<td>Sender of this message</td>
<td>RTGS DN</td>
</tr>
<tr>
<td>Receiver of this message</td>
<td>EBA DN (for pre-settlement account)</td>
</tr>
<tr>
<td>Fields for input via GUI</td>
<td></td>
</tr>
<tr>
<td>Fields predefined (cannot be changed)</td>
<td></td>
</tr>
<tr>
<td>Tag in the payment message</td>
<td></td>
</tr>
<tr>
<td>Tag in the statement message</td>
<td></td>
</tr>
<tr>
<td>Tag in the A2A payment queue</td>
<td></td>
</tr>
<tr>
<td>Tag in the U2A payment queue</td>
<td>Backup payment</td>
</tr>
</tbody>
</table>

#### 6.1.4.2 Backup liquidity redistribution payments

**Objective**

Backup liquidity redistribution payments are intended to redistribute excess liquidity accumulated on the RTGS dedicated cash account of the affected direct RTGS participant. It aims to mitigate the possibility of a shortage of liquidity within the RTGS service.

As the recipient can be any direct RTGS participant, they can be used also for meeting obligations and demands arising from the settlement and funding processes for other systems than those explicitly covered by the backup contingency payments as described above.
Rules for backup liquidity redistribution payments

The table below gives the rules for backup liquidity redistribution payments:

<table>
<thead>
<tr>
<th>Redistributing liquidity payments can be transferred to...</th>
<th>Direct RTGS participants (including CBs as direct RTGS participants)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Payment priority</td>
<td>Urgent</td>
</tr>
<tr>
<td>Generation</td>
<td>via the GUI</td>
</tr>
<tr>
<td>Message type</td>
<td>Pacs.009</td>
</tr>
<tr>
<td>Sender of this message</td>
<td>RTGS DN</td>
</tr>
<tr>
<td>Receiver of this message</td>
<td>According to the routing configuration of the instructed agent</td>
</tr>
</tbody>
</table>

Fields for input via GUI

<table>
<thead>
<tr>
<th>Fields predefined (cannot be changed)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Tag in the payment message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tag in the statement message</td>
</tr>
<tr>
<td>Tag in the A2A payment queue</td>
</tr>
<tr>
<td>Tag in the U2A payment queue</td>
</tr>
</tbody>
</table>

Backup payment
6.1.4.3 Rules for backup payments

6.1.4.3.1 Generation

6.1.4.3.2 Notification of affected participant (sender)

6.1.4.3.3 Notification to the receiver

6.1.4.3.4 Subsequent delivery of single payments

6.1.5 Payment priorities

6.2 Settlement of payments

6.2.1 Overview

The aim of the process is to allow a direct RTGS participant to initiate a customer or a bank to bank payment to another direct RTGS participant. A customer or bank to bank payment can be submitted to and received from the RTGS service by (see chapter Participation types [9])

- a direct RTGS participant
- central banks
- an addressable BIC via direct RTGS participant
- an indirect BIC via direct RTGS participant
- a multi-addressee access

The following table provides an overview on the features for payment messages linked with the way of initiation.

<table>
<thead>
<tr>
<th>Name</th>
<th>Customer payment</th>
<th>Bank to bank payment</th>
<th>Direct debit</th>
<th>Payment return</th>
</tr>
</thead>
<tbody>
<tr>
<td>Message for A2A initiation</td>
<td>Pacs.008</td>
<td>Pacs.009</td>
<td>Pacs.010</td>
<td>Pacs.004</td>
</tr>
<tr>
<td>U2A mode</td>
<td>Not provided</td>
<td>Only for backup or lump sum payments</td>
<td>Not provided</td>
<td>Not provided</td>
</tr>
<tr>
<td>Priority</td>
<td>High</td>
<td>Urgent High</td>
<td>Urgent (CBs only) High</td>
<td>High Normal</td>
</tr>
</tbody>
</table>
### 6.2.2 Concept of payment submitters

### 6.2.3 Flow of payment related messages

The chapter lists all cases for flows of payment messages including respective details.

**Case: payment credit message with positive validation and settlement**

The following payment flow illustrates the payment messaging on basis of a pacs.008/pacs.009 and with regard to the RTGS service.

<table>
<thead>
<tr>
<th>Settlement time</th>
<th>Normal</th>
<th>Normal</th>
<th>Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Earliest debit time indicator (FROM TIME)</td>
<td>Earliest debit time indicator (FROM TIME)</td>
<td>Earliest debit time indicator (FROM TIME)</td>
</tr>
<tr>
<td></td>
<td>Latest debit time indicator (TILL TIME)</td>
<td>Latest debit time indicator (TILL TIME)</td>
<td>Latest debit time indicator (TILL TIME)</td>
</tr>
<tr>
<td></td>
<td>No indication possible</td>
<td>No indication possible</td>
<td>No indication possible</td>
</tr>
</tbody>
</table>

The accounts to be debited and credited are not necessarily linked to the BICs mentioned in the business application header of the message. They have to be taken from the business message. After simultaneous booking on the RTGS accounts, the payment is final and irrevocable.

**Note:** A payment included in the clearing process of an algorithm cannot be revoked - although it might not yet be final.
Process description

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>In case direct RTGS participant A sends a pacs.008/pacs.009 via ESMIG to the RTGS service. In case of mandated payments, the CB that was authorised by a direct RTGS participant sends a pacs.009 via ESMIG to the RTGS service (codeword MANPAY). In case of AS, the AS sends a pacs.009 via ESMIG to the RTGS service. In case of backup payments, the direct RTGS participant A initiates a backup payment via GUI (codeword BUP).</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
<tr>
<td>Step</td>
<td>Processing in/between</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>3</td>
<td>RTGS</td>
<td>In case of direct RTGS participants debtor = sender of pacs.008/009, creditor = receiver of pacs.008/009. In case of mandated payments debtor = direct RTGS participant that authorised CB, creditor = receiver of pacs.009. In case of AS either debtor and creditor are settlement banks or one settlement bank and one AS technical account. In case of backup payments debtor = direct participant A, creditor = direct participant B.</td>
</tr>
<tr>
<td>4</td>
<td>RTGS via ESMIG technical address A</td>
<td>Booking confirmation pacs.002 via ESMIG to technical address A generated by the RTGS service (basically optional; mandatory if sender is an AS).</td>
</tr>
<tr>
<td>5a</td>
<td>RTGS via ESMIG to technical address B pacs.008/009</td>
<td>In case of direct RTGS participants creation and forwarding of pacs.008/pacs.009 by the RTGS service via ESMIG to technical address B (mandatory). In case of mandated payments creation and forwarding of pacs.009 to technical address B (mandatory). In case of AS no pacs.009 is sent. In case of backup payments creation and forwarding of pacs.009 to technical address B (mandatory).</td>
</tr>
<tr>
<td>5b</td>
<td>RTGS via ESMIG to technical address X camt.054</td>
<td>In case of direct RTGS participants no camt.054 is sent. In case of mandated payments creation and forwarding of camt.054 (optional) to technical address X (direct RTGS participant that authorised CB). In case sender is AS, creation and forwarding of 1 - n camt.054 (credit and/or debit) (optional) to technical address X (creditor and/or debtor settlement bank). In case of backup payments creation and forwarding of camt.054 (optional) to technical address X of the debtor.</td>
</tr>
</tbody>
</table>

*Used messages*
- pacs.008
- pacs.009
- pacs.002
Case: payment return message with positive validation and settlement

The following payment flow illustrates the payment messaging on basis of a pacs.004 and with regard to the RTGS service.

Message flow

![Diagram showing the payment flow]

**Process description**

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>Direct RTGS participant B sends a pacs.004 via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
<tr>
<td>3</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Creation and forwarding of pacs.002 by the RTGS service (optional) via ESMIG to direct RTGS participant B</td>
</tr>
</tbody>
</table>
Step | Processing in/between | Description
--- | --- | ---
4 | RTGS via ESMIG to direct RTGS participant | Creation and forwarding of pacs.008/pacs.009 by the RTGS service via ESMIG to direct RTGS participant A (mandatory)

**Used messages**
- pacs.004
- pacs.002

**Case: payment debit message with positive validation and settlement**
The following payment flow illustrates the payment messaging on basis of a pacs.010 and with regard to the RTGS service.

**Message flow**

![Diagram of the payment flow](image)

**Figure 3 - Pacs.010**

**Process description**

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>Direct RTGS participant A sends a pacs.010 via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
<tr>
<td>3</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Creation and forwarding of pacs.002 by the RTGS service (optional) via ESMIG to direct RTGS participant A</td>
</tr>
</tbody>
</table>
### Application processes description

#### Settlement of payments

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Creation and forwarding of pacs.010 by the RTGS service via ESMIG to direct RTGS participant B (mandatory)</td>
</tr>
</tbody>
</table>

**Used messages**

- pacs.010
- pacs.002

#### 6.2.4 Rejection of payments

For different reasons a payment can be rejected and returned to sender. If business validation in RTGS interface fails the RTGS service creates and forwards a pacs.002 (negative – payment status report) to the instructing party. This can be every RTGS participant who initiates a payment. The pacs.002 refers to the original instruction by means of references and a set of elements from the original instruction. Negative pacs.002 message is mandatory.

The following business validations are performed in RTGS interface:

- check for duplicate payment order
- process specific authorisation checks
  - is the sender of the payment order the owner of the account to be debited
  - in case of direct debit: is the sender of the payment order the owner of the account to be credited
  - in case of mandated payments: is the sender of the payment order the neither the debtor nor the creditor and are there contractual agreements between the parties
  - in case a central bank acts on behalf of a credit institution: does the credit institution belong to the acting central bank
- check on value date for non-warehouse payments
- payment type specific checks
- field and reference data checks
  - field value validation - codes are valid, domain values are within allowed range
  - cross-field validation - eg currency of the accounts involved same as amount currency etc.
  - database checks - eg existence of parties and accounts
6.2.4.1 Technical validations

6.2.4.2 Business validations

The following payment flow illustrates a validation failure in RTGS service on basis of a pacs.008/pacs.009/pacs.010/pacs.004.

Process description

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>An authorised system user of a direct RTGS participant A sends a pacs.008/pacs.009/pacs.010/pacs.004 via ESMIG to the RTGS service</td>
</tr>
</tbody>
</table>
### 6.2.5 Amendment of payments

As long as a payment is not settled (including warehoused payments), an authorised system user has the ability to change the relevant parameters of this payment.

Four different control options are offered.

<table>
<thead>
<tr>
<th>Action</th>
<th>Actor = authorised system user for the</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change priority</td>
<td>debtor</td>
</tr>
<tr>
<td>Re-ordering (increase / decrease)</td>
<td>debtor</td>
</tr>
<tr>
<td>Change of set execution time</td>
<td>business sender</td>
</tr>
<tr>
<td>(if defined before sending to the RTGS service)</td>
<td></td>
</tr>
<tr>
<td>Revocation (separate chapter [31])</td>
<td>business sender</td>
</tr>
</tbody>
</table>

Those features are necessary to enable RTGS actors to react on changed liquidity conditions during the day.

The following rules apply in principle:

- Interventions must be made via the business interface of the RTGS service in U2A and A2A. A description of individual U2A processes can be found in the user handbook.
- Individual or several payment orders together can be modified at the same time.
- The business interface shows receipt and execution or non-execution of a modified order.

In case of intervention at transaction level, processes are started to resolve the queues.

**Message flow**
Process description

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Authorised system user via ESMIG to RTGS</td>
<td>An authorised system user A sends a camt.007 via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation with positive or negative result</td>
</tr>
<tr>
<td>3</td>
<td>RTGS via ESMIG to the authorised system user</td>
<td>Mandatory feedback to the authorised system user via camt.025</td>
</tr>
</tbody>
</table>

Used messages
- camt.007
- camt.025

Case changing priority
The following options for changing the priority exist:
- from normal to high
- from high to normal

It is not possible to change an urgent priority.

The payment priority can be changed at any time during the business day. The newly modified priority can be viewed through the payment queue query.

The modified payment:
- keeps the original submission time
- is placed in the queue according to the (new) priority and the (old) submission time
- is processed according to the regulations of the (new) priority

<table>
<thead>
<tr>
<th>Action</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change of the first queued urgent payment into a normal payment</td>
<td>If no highly urgent payment is queued immediate attempt to settle the remaining urgent payments following the FIFO-principle.</td>
</tr>
<tr>
<td></td>
<td>If highly urgent payments are queued no immediate attempt to settle any urgent payments.</td>
</tr>
<tr>
<td>Change of a normal payment into an urgent payment</td>
<td>If the payment changed from normal to urgent moves at the top of the queued urgent payments and no highly urgent payments are queued, immediate attempt to settle urgent payments following the FIFO-principle.</td>
</tr>
</tbody>
</table>
**Case re-ordering the queued transactions**

A system user authorised can change the queue position for an individual or for a sequence of payments. The selected payment or sequence of payments can be placed:

- to the top of the queued payments with the same priority
- to the end of the queued payments with the same priority

The re-ordering can be done at any time during the business day. The newly re-ordered transaction can be viewed through the payment queue query.

The following table shows the effect of changing the order in the queue.

<table>
<thead>
<tr>
<th>Action</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moving an urgent payment to the top of the queued urgent payments</td>
<td>Immediate check whether payments can be executed</td>
</tr>
<tr>
<td>Moving an urgent transaction from the top to the end of the queued urgent payments</td>
<td></td>
</tr>
<tr>
<td>Moving a high payment to the top of the queued high payments and no urgent payment is queued</td>
<td></td>
</tr>
<tr>
<td>Moving a high payment from the top to the end of the queued high payments and no urgent payment is queued</td>
<td></td>
</tr>
<tr>
<td>Moving an urgent payment which is not at the top of the queued urgent payments to the end</td>
<td>It is taken into account during the next settlement process - no immediate attempt to settle</td>
</tr>
<tr>
<td>Moving a high payment which is not at the top of the queued high payments to the end</td>
<td></td>
</tr>
<tr>
<td>Moving a normal transaction to the top or the end of the queued normal payments</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** The re-ordering of queued transactions is available for all payment types including urgent payments.

**Case changing the execution time**

Payments can include a time that indicates when they should be settled (transactions with an “earliest debit time indicator”).

Payments can include a time that indicates when they should have been settled (transactions with a “latest debit time indicator”).
The execution time (from/till) may be changed in the RTGS business interface (advanced or postponed). The change has no impact on the payment processing, but on the queue management as the time indication only supports the direct RTGS participant’s queue management. The newly modified execution time can be viewed through the payment queue query.

Changing the execution time has the following impact on the queue management.

<table>
<thead>
<tr>
<th>Action</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deleting the execution time of an urgent transaction (“from”)</td>
<td>Immediate settlement attempt, if the payment reaches the top of the queued urgent payments.</td>
</tr>
<tr>
<td>Deleting the execution time of a high transaction (“from”)</td>
<td>Immediate settlement attempt, if the payment reaches the top of the queued high payments and no urgent payments are queued.</td>
</tr>
<tr>
<td>Deleting the execution time of a normal transaction</td>
<td>Including the payment in the next settlement process.</td>
</tr>
<tr>
<td>Changing the execution time of a urgent, high or normal transaction</td>
<td>Including the payment from the new indicated time.</td>
</tr>
</tbody>
</table>
6.2.6 Revocation of payments

6.2.7 Processing of payments

6.2.7.1 Entry disposition

6.2.7.1.1 General remarks

6.2.7.1.2 Settlement of payments in the entry disposition

6.2.7.2 Comprehensive queue management

6.2.7.3 Dissolution of the payment queue

6.2.7.3.1 Settlement of queued high/urgent payments

6.2.7.3.2 Settlement of queued normal payments

6.2.7.3.3 Optimisation on sub-accounts

6.2.7.4 Treatment of backup payments in the settlement process

6.3 Settlement of ancillary systems

6.3.1 Overview

6.3.2 Standard multilateral settlement

6.3.3 Simultaneous multilateral settlement

6.3.4 Settlement on dedicated liquidity accounts
6.3.5 Optional connected mechanisms

6.4 Liquidity management

6.4.1 Available liquidity

6.4.2 Liquidity transfer

6.4.2.1 Overview

6.4.2.2 Initiation of liquidity transfers

6.4.2.3 Liquidity transfer process

6.4.2.3.1 Liquidity transfer between two DCAs of the RTGS service

6.4.2.3.2 Liquidity transfer from DCA of the RTGS service to CLM MCA

6.4.2.3.3 Liquidity transfer from DCA of the RTGS service to a DCA in different settlement service

6.4.2.3.4 Liquidity transfer from DCA in different settlement service to a DCA of the RTGS service

6.4.2.4 Rejection of liquidity transfer orders

6.4.2.4.1 Technical validations

6.4.2.4.2 Business validations

6.4.3 Liquidity management features
6.4.3.1 Reservation

6.4.3.1.1 Overview

6.4.3.1.2 Liquidity reservation process

6.4.3.1.3 Effect of liquidity reservation

6.4.3.2 Limits

6.4.3.2.1 Limit types

6.4.3.2.1.1 Categorisation of limits

6.4.3.2.1.2 Bilateral limits

6.4.3.2.1.3 Multilateral limits

6.4.3.2.2 Rules for definition of limits

6.4.3.2.3 Effect of limits

6.4.3.3 Dedication of liquidity for ancillary system settlement

6.4.3.4 Floor/ceiling

6.4.3.4.1 Definition of floor/ceiling threshold

6.4.3.4.2 Breach of floor/ceiling threshold - notification

6.4.3.4.3 Breach of floor/ceiling threshold - automatic liquidity transfer
6.5 Reference data management

6.5.1 Concept

6.5.2 Overview

6.5.3 Reference data maintenance process

The common reference data maintenance process can be described as a common message flow that applies to every business scenario.

Upon the sending of a request instructed with an input message, a related response message or a technical validation error message is returned.

6.5.3.1 Reference data objects

The shared generic message flow is as follows:

<table>
<thead>
<tr>
<th>Step</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The authorised actor (CLM or RTGS participant or another actor operating on behalf of the MCA or RTGS owner under a contractual agreement) sends the input message to CRDM to create, modify or delete a common reference data entity.</td>
</tr>
</tbody>
</table>
In case of rejection upon technical validation, an admi.007 receipt acknowledgement is sent by CRDM to the sender of the originating request.

CRDM performs the business validation and sends to the authorised actor a response message to report processing result.

CRDM will propagate the updated information to the subscribing services for their internal processing.

The messages used in the interaction change depending on the business scenario to be covered.

In the following table, for every concerned common reference data entity and related business scenario, the input and response messages are defined.

<table>
<thead>
<tr>
<th>Business scenario</th>
<th>Input message</th>
<th>Response message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create standing order</td>
<td>camt.024</td>
<td>camt.025</td>
</tr>
<tr>
<td>Modify standing order</td>
<td>camt.024</td>
<td>camt.025</td>
</tr>
<tr>
<td>Delete standing order</td>
<td>camt.071</td>
<td>camt.025</td>
</tr>
</tbody>
</table>
6.5.3.2 Reference data maintenance types

6.5.3.3 Validity of reference data objects

6.5.3.4 Reference data archiving and purging

6.5.3.5 Lifecycle of reference data objects

6.5.3.6 Reference data maintenance instructions processing

6.5.3.7 Reference data status management

6.6 Information management

6.6.1 Status management

6.6.1.1 Concept

EMIP services inform their EMIP actors of the processing results. This information is provided to the EMIP actors through a status reporting which is managed by the status management process. The communication of statuses to EMIP actors is complemented by the communication of reason codes in case of negative result of an EMIP service process.

6.6.1.2 Overview

The status management process manages the status updates of the different instructions existing in EMIP service in order to communicate these status updates through status advice messages to the EMIP actors throughout the lifecycle of the instruction. The status management process also manages the reason codes to be sent to EMIP actors in case of negative result of a EMIP service process (e.g. to determine the reason why an instruction is unsuccessfully validated or settled).

The status of an instruction is indicated through a value, which is subject to change through the lifecycle of the instruction. This value provides EMIP actors with information about the situation of this instruction with respect to a given EMIP process at a certain point in time.
Since each instruction in an EMIP service can be submitted to several processes, each instruction in EMIP has several statuses. However, each of these statuses has one single value at a certain moment in time that indicates the instruction’s situation at the considered moment. Depending on its instruction type, an instruction is submitted to different processes in T2S. Consequently, the statuses featuring each instruction depend on the considered instruction type.

The following sections provide:

- the generic principles for the communication of statuses and reason codes to EMIP actors
- the list of statuses featuring each instruction type as well as the possible values for each of these statuses
- an overview of the reason codes management

However, reason codes are not exhaustively detailed below but are provided in chapter Index of status value and codes.

### 6.6.1.3 Status management process

#### Communication of statuses and reason codes to EMIP actors

EMIP actors can query, at any point in time, the status values and reason codes of their instructions.

The statuses can be classified into two different types, common to all type of instructions:

- "Intermediate status". There is a change occurred in any of the statuses of the instruction, but it does not imply the end of the processing of the instruction in EMIP. Further status updates are to be communicated to the EMIP actor until an “end status” is sent.

- “Final status”. This is the last status of an instruction (i.e., the status that an instruction has when processing for that instruction ends). If the status of an instruction is not of an “end status” type, then the instruction is still under process in EMIP. At a point in time, any instruction in EMIP reaches an “end status”, as any instruction is settled, executed, cancelled or denied in the end.

For some specific status updates, the status management process informs the EMIP actors of the status change through the sending of status advice messages (according to their message subscription configuration).

#### Statuses and status values in EMIP

As previously mentioned, the statuses of an instruction depend on the considered instruction type. The following paragraphs provide the list of statuses and status values.

RTGS service statuses are:

- message statuses
- payment statuses
CRDM statuses are:
- reference data maintenance instruction processing status

**Message statuses**

Indicates the status of the message (not applicable for queries) and it can have the following statuses:

<table>
<thead>
<tr>
<th>Status value</th>
<th>Definition</th>
<th>Direction</th>
<th>Intermediate status/final status</th>
</tr>
</thead>
<tbody>
<tr>
<td>System entry</td>
<td>System entry is the initial status of a message.</td>
<td></td>
<td>Intermediate</td>
</tr>
<tr>
<td>Waiting for open queue</td>
<td>Waiting for open queue is a status of a message arriving before the “start of day trade phase”.</td>
<td></td>
<td>Intermediate</td>
</tr>
<tr>
<td>Warehoused</td>
<td>Warehoused is a status of a message with a value date in the future or status of a message with the value date of the current business day until it will be forwarded to the processing at the start of the day trade phase.</td>
<td></td>
<td>Intermediate</td>
</tr>
</tbody>
</table>
### Status values

<table>
<thead>
<tr>
<th>Status value</th>
<th>Definition</th>
<th>Direction</th>
<th>Intermediate status/final status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processed</td>
<td>Message status if an incoming message is finally processed independent of whether the result is positive or negative.</td>
<td>Incoming</td>
<td>Final</td>
</tr>
<tr>
<td>To be provided</td>
<td>Status of an outgoing message ready to be send to ESMIG.</td>
<td>Outgoing</td>
<td>Intermediate</td>
</tr>
<tr>
<td>Provided</td>
<td>Status of an outgoing message sent to ESMIG.</td>
<td>Outgoing</td>
<td>Final</td>
</tr>
</tbody>
</table>

One business case can include one or more single messages which may have different message status. The message status is the detailed status related to the processing of each single message of a business case. The business case status is a result of the message status and the related processing.

Message statuses will not be reported via status message.

### Payment statuses

Indicates the status of the payment instruction and it can have the following statuses:

#### Figure 7 - Payment statuses
<table>
<thead>
<tr>
<th>Status value</th>
<th>Definition</th>
<th>Intermediate / final status</th>
<th>Reported via status message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Valid</td>
<td>Status after positive business validation.</td>
<td>Intermediate</td>
<td>-</td>
</tr>
<tr>
<td>Warehoused</td>
<td>Status of a payment with a value date of a future business day and status of a payment with the value date of the current business day until it will be forwarded to the processing at the start of the day trade phase. From then on they will be processed normally. To this booking status a time stamp is added. In general, warehoused payments are submitted up to ten calendar days in advance. In this case, the payment message will be warehoused until the day trade phase of RTGS with the respective date starts.</td>
<td>Intermediate</td>
<td></td>
</tr>
<tr>
<td>Earmarked</td>
<td>Status of a payment which is ready for booking but not taken into account for various reasons. The booking status earmarked is split into the following business case status:</td>
<td>Intermediate</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>- accounting stopped due to earliest debit time indicator</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- AS accounting not yet started due to active information period</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- accounting stopped due to exclusion</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- pending decision on exclusion</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- waiting for end of cycle</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- waiting for completion of debits</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- waiting for algorithm 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Queued</td>
<td>Status of a payment which is ready for booking but the first booking attempt was unsuccessful. Pending payments are waiting for the next booking attempt. To this booking status a time stamp is added.</td>
<td>Intermediate</td>
<td>-</td>
</tr>
<tr>
<td>Revoked</td>
<td>Status of a payment which is revoked by a system user.</td>
<td>Final</td>
<td>-</td>
</tr>
<tr>
<td>Rejected</td>
<td>Status of a payment which is rejected by the system or by a system administrator</td>
<td>Final</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Status value</td>
<td>Definition</td>
<td>Intermediate / final status</td>
<td>Reported via status message</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------------------------------------------</td>
<td>----------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>(all payments with error code, except error code for revoked).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Settled</td>
<td>Status of a payment after booking. Final payments cannot be revoked.</td>
<td>Final</td>
<td>Optional</td>
</tr>
<tr>
<td>Invalid</td>
<td>Messages which are negatively business validated in the entry disposition and do not lead to a booking attempt.</td>
<td>Final</td>
<td>-</td>
</tr>
</tbody>
</table>

**Task queue statuses**

All data inputs or data changes by the user (called tasks; eg entering a backup payment) are managed in the task queue administration of the respective service. The following statuses apply for RTGS service.

![Task queue statuses diagram](image)

**Figure 8 - Task queue statuses**

<table>
<thead>
<tr>
<th>Status value</th>
<th>Definition</th>
<th>Transition possible to status</th>
<th>Intermediate / final status</th>
</tr>
</thead>
<tbody>
<tr>
<td>To confirm</td>
<td>The task must be confirmed by a second user and will not be processed. This status can only occur in U2A for four eyes principle. It is the only status in which a task revocation is possible directly via respective screens.</td>
<td>Processing, revoked, rejected</td>
<td>Intermediate</td>
</tr>
</tbody>
</table>
### Application processes description

#### Information management

<table>
<thead>
<tr>
<th>Status value</th>
<th>Definition</th>
<th>Transition possible to status</th>
<th>Intermediate / final status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processing</strong></td>
<td>The task is ready to be processed at the moment. It can only occur directly after the task initiation (or after “to confirm” in case of four eyes principle).</td>
<td>Waiting, pending, partially pending, revoked, rejected, completed</td>
<td>Intermediate</td>
</tr>
<tr>
<td><strong>Waiting</strong></td>
<td>The task can be processed, but the processing is not started till now, eg due to a running or stopped algorithm.</td>
<td>Pending, partially pending, revoked, completed, rejected</td>
<td>Intermediate</td>
</tr>
<tr>
<td><strong>Pending</strong></td>
<td>A task should be stored with status “pending”, if the task was already tried to process at least one time but it could not be finalised. The processing was interrupted after the storage of entries initiated by the task and before the final processing of these entries. The task will be updated and further processed, if the preconditions for the pending status (eg liquidity increase) are changed.</td>
<td>Partially pending, completed, revoked, rejected</td>
<td>Intermediate</td>
</tr>
<tr>
<td><strong>Partially pending</strong></td>
<td>A task should be stored with status “partially pending” if the user's order cannot be processed completely (eg an increase of reservation cannot be executed completely because of lack of liquidity). The order is processed as far as possible. The task will be updated and further processed, if the preconditions for the “partially pending” status (eg liquidity increase) are changed.</td>
<td>Completed, revoked, rejected</td>
<td>Intermediate</td>
</tr>
<tr>
<td><strong>Revoked</strong></td>
<td>The task has been revoked by a user.</td>
<td>-</td>
<td>Final</td>
</tr>
<tr>
<td><strong>Rejected</strong></td>
<td>An error was detected.</td>
<td>-</td>
<td>Final</td>
</tr>
<tr>
<td><strong>Completed</strong></td>
<td>The task was processed successfully and the business case stemming from the task is final. The tasks changing an existing business case (like queue management) are completed, if the respective action is completely processed. The business case (managed payment) does not have to be final.</td>
<td>-</td>
<td>Final</td>
</tr>
</tbody>
</table>

**Note:** The responsibility for the tasks switches over from the user to the respective service according to the storage of the entry time. The relevant entry time is stored for two eyes principle: by storage of the task within the responsible service.
Note: Tasks with status “waiting”, “processing” or “pending” can only be revoked via a new task, eg a credit line can only exist once per participant. Therefore the second credit line change will revoke the first one.

Reference Data maintenance instruction processing status

6.6.2 Report generation

Concept
EMIP services periodically inform with a set of predefined reports which deliver information specifically for the service business. They contain information which is based on the data available for a party. The respective service triggers the generation of a report based on a business event, eg end of day, or at a predefined time. Please see chapter Index of status value and codes [62] for the list of configurable business events. Depending on the party’s preferences the report is either sent out directly after creation or stored for later retrieval via the report query.

Overview
The report types generated by the respective service and the sort of information provided are described below.

In general all reports differ in and are defined by the following characteristics:

- the concerned party
- the sort of information collected
- the moment of data extraction during the business day and
- the reporting period

All information about the necessary attributes in each named category is stored as static data in CRDM and influences the generation of the report.

Report generation process
A generated report is available for download until it is replaced by the next, new generation of it, ie a report that is created at the end of day of the current business day replaces the report that was created at the end of day of the previous business day. The replaced report is no longer available for download. Nonetheless, as any other message, a report can be resent if the report message was sent in A2A mode before.

Sort of information - report types
The EMIP services provide the following report type:
Concerned party

Each report type provides information on a certain scope of data. The data scope is indicated by the party for which it is configured. In addition to reports on party level, CBs can also opt for reports on system entity level, i.e., reports providing the CB with information relating to all its parties. CBs can only configure reports on system entity level for themselves.

The concerned party has to be specified, when the report is configured for the first time.

Moment of data extraction

The creation of a report is always triggered at a certain point in time by the respective EMIP service. This point in time can be a specific time, e.g., 10:00 am or a specific event of the business day, e.g., end of day. A new report configuration can be set-up at the earliest for the next business day. The moment of data extraction as well as possible validity limitations have to be specified when the report is configured for the first time. The respective service only creates those reports, for which the underlying report configurations is valid at the current business day.

Reporting period

The EMIP services distinguish between two different report classifications - complete reports and delta reports, which are all based on the latest available data. The difference between both is the time scope which is considered:

- Complete reports cover the current business day and provide the current values of all selected items at the time of the creation of the report.
- Delta reports also consider the current business day but provide only information on the selected items which values changed since the previous report was created. The previous report can likewise be a complete report or a delta report. Therefore, the creation timestamp of the previous report is considered as the starting point in time for the reporting period. If there is no previous report for the current business day, the SoD is considered as the starting point in time for the reporting period.

Possible recipients of a report

All reports can be received by the technical address of

- concerned party
A created report can be received by one or several receivers. Each party can decide, if it wishes to receive a report directly after its creation or if it wants to query it ad-hoc.

If a recipient wishes to receive a report directly after its creation, this has to be stored in the static data configuration of the report. That means the subscription of a report is independent from the message subscription.

If a recipient does not wish to receive a report directly after its creation but to query it afterwards, this behavior of the service has to be stored in the CRDM configuration of the report as well. Also this recipient is stored as recipient of a report.

As a general principle the recipient(s) of a report can be different from the concerned party. For information about the setup of report configuration for specific concerned parties and recipients of a report please see UHB chapters related to report configuration setup.
Preconditions for report creation

In order to avoid unnecessary processing and storage the respective service does not create reports automatically. So, to initiate the creation of a report, the requiring receiver has to configure the report in advance. The configuration of the report has to be done via the graphical user interface of CRDM, which is described in the UHB.

This configuration is then stored as static data and is valid until the receiver decides that the report has not to be created anymore or until the “valid to” date stored within the report configuration is reached.

Communication channel

The respective service offers direct communication to applications via XML-messages in application-to-application mode (shortly A2A mode) as well as screen-based online access for connected users in user-to-application mode (U2A mode).

All reports that are offered by the EMIP services are available both in A2A and U2A mode.

In A2A mode the receiver gets the specific report pushed, provided that the push preference for the report is stored for the receiver in static data. Otherwise the report is just stored after generation.

To pull formerly created reports, a report query has to be sent either via the graphical user interface to the respective service or via A2A mode with the specification of the report instance asking for. In case the user has the respective privilege to obtain the requested report, it is sent out to the inquirer. Please see chapter Query management [48].

Parameter synthesis

The following parameters are specified for the setup of a report.

<table>
<thead>
<tr>
<th>Concerned process</th>
<th>Parameter</th>
<th>Created and updated by</th>
<th>Mandatory/optional</th>
<th>Possible values</th>
<th>Hint</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup of a report</td>
<td>Report type</td>
<td>CRDM actor</td>
<td>Mandatory</td>
<td>Statement of accounts</td>
<td></td>
</tr>
<tr>
<td>Setup of a report</td>
<td>Concerned party</td>
<td>CRDM actor</td>
<td>Mandatory</td>
<td>n/a</td>
<td></td>
</tr>
<tr>
<td>Setup of a report</td>
<td>System entity wide reporting flag</td>
<td>CRDM actor</td>
<td>Mandatory</td>
<td>Yes, no</td>
<td>This flag can only be set to “yes” for CBs as they are eligible for system entity wide reports.</td>
</tr>
<tr>
<td>Setup of a report</td>
<td>Moment of data extraction</td>
<td>CRDM actor</td>
<td>Mandatory</td>
<td>Time event, business event</td>
<td></td>
</tr>
<tr>
<td>Setup of a report</td>
<td>Reporting period</td>
<td>CRDM actor</td>
<td>Mandatory</td>
<td>Complete report, delta report</td>
<td></td>
</tr>
</tbody>
</table>
**Detailed information on the sort of information - report type - statement of accounts**

It includes information on the RTGS dedicated cash accounts of a dedicated RTGS participant. It is only possible to configure this report as complete report for the end of day. The report is not available during the day and it is not available as delta version.

The report provides information about all items that have been booked to the account and balance information of the current business day. It does not include information from other services, ie there is no report including CLM and RTGS information.

A resend request allows to deliver the statement of accounts once more to the same technical address as used for the initial report delivery.

**Case: resend request with positive validation and re-delivery**

*Message flow*

**Process description**

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>An authorised system user of a direct RTGS participant A sends a admi.006 via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
</tbody>
</table>
### Application processes description

#### Information management

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Positive validation result via ESMIG to direct RTGS participant A generated by the RTGS service (optional)</td>
</tr>
<tr>
<td>4</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Re-delivery of camt.053 to the original technical address (mandatory)</td>
</tr>
</tbody>
</table>

**Case: resend request with negative validation**

*Message flow*

#### Process description

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>An authorised system user of a direct RTGS participant A sends a admi.006 via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
<tr>
<td>3</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Negative validation result via ESMIG to direct RTGS participant A generated by the RTGS service (optional)</td>
</tr>
</tbody>
</table>

**Used messages**
- camt.053
- admi.006
- admi.007

### 6.6.3 Query management

#### 6.6.3.1 Concept

Queries are provided by EMIP services to the system user as a means of satisfying his information needs on demand. He can obtain information on different business items by submitting query requests to EMIP services. These are answered on the basis of the latest data available in EMIP services.

#### 6.6.3.2 Overview

EMIP services provide a range of predefined query types, which the system user can use to request information on business items. All user queries are available for all authorised system users of EMIP services.
They can send queries to EMIP services in A2A mode or in U2A mode. Generally, all queries are processed in real time. Exceptions occur during the maintenance window. Queries sent in A2A mode during the maintenance window are queued and notice of the queued status is given immediately to the requesting system user. The query request is answered after the end of maintenance window. It is not possible to send queries in A2A and U2A mode during the maintenance window.

6.6.3.3 Query management process

Initiating queries

In order to obtain the desired information the system user needs to submit a query to an EMIP service. For the communication with EMIP services in A2A mode all query and response messages are set up as XML messages compliant with the ISO20022 standard. For the communication with EMIP services in U2A mode a graphical user interface based on a standard browser application is provided.

Case: query request for RTGS service

Message flow

Process description

<table>
<thead>
<tr>
<th>Step</th>
<th>Processing in/between</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Direct RTGS participant via ESMIG to RTGS</td>
<td>An authorised system user of a direct RTGS participant A sends a query message via ESMIG to the RTGS service</td>
</tr>
<tr>
<td>2</td>
<td>RTGS</td>
<td>RTGS message check and validation positive</td>
</tr>
<tr>
<td>3</td>
<td>RTGS via ESMIG to direct RTGS participant</td>
<td>Query response (positive or negative) via ESMIG to direct RTGS participant A generated by the RTGS service</td>
</tr>
</tbody>
</table>

Used messages

- See following table

In general an authorised system user can send each query in A2A mode as well as in U2A mode. However, there are some queries which are only accessible via U2A mode. Query availability in the respective communication mode is shown in the table below.
The different types of queries in EMIP services are static regarding the set of selection parameters, which can be mandatory, optional or conditional. RTGS and CLM service do not offer dynamic queries.

**Preconditions for successful processing of queries**

The relevant EMIP service validates the plausibility of the search criteria that were specified by the system user. In addition, the relevant service ensures that the sender of the query is allowed to retrieve the requested information by checking, whether the system user has been granted the necessary privilege.

Only if the system user possesses the necessary privilege to use the initiated query, the requested business information is provided. The privilege has to be granted in advance.

**Providing data for queries**

If all checks performed by respective service were successful, it extracts the requested business information from the production data. The system user receives the latest available data. If one of the plausibility and privilege checks performed by respective service fails, the system user receives a response indicating the error that has occurred.

**Retrieving the query response**

In case the extraction of the query data is successful, the respective service sends a query response containing the requested business information back to the requesting system user. In case the extraction of the query data returns a zero result, the requesting system user receives appropriate information. If a retrieval of the query result fails, then an error response is provided to the system user.

If the system user has sent the query via U2A mode, the response is given to the same system user in U2A mode. The U2A dialogue is described in more detail in the UHB.

If the system user has sent the query via A2A mode, the response is given to the same system user in A2A mode. The respective service does not allow the routing of the query response to a dedicated technical address.

**Parameter synthesis**

No specific configuration from the system user is needed.
6.6.3.3.1 Common reference data query

The common reference data query can be described as a common message flow that applies to every business scenario.

Upon the sending of a query instructed with an input message, a related query response message or a technical validation error message is returned.

The shared generic message flow is as follows:

<table>
<thead>
<tr>
<th>Step</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The authorised actor (CLM or RTGS participant or another actor operating on behalf of the MCA or RTGS owner under a contractual agreement) sends the query message to CRDM to retrieve a set of common reference data entity.</td>
</tr>
<tr>
<td>2</td>
<td>In case of rejection upon technical validation, an admi.007 receipt acknowledgement is sent by CRDM to the sender of the originating query.</td>
</tr>
</tbody>
</table>
CRDM performs the business validation and sends to the authorised actor a query response message to report processing result that is retrieved records or business error found during the validation.

The messages used in the interaction change depending on the query to be performed.

In the following table, for every concerned common reference data entity, the query and query response messages are defined.

<table>
<thead>
<tr>
<th>CRDM entity</th>
<th>Query message</th>
<th>Query response message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standing order</td>
<td>camt.069</td>
<td>camt.070</td>
</tr>
</tbody>
</table>
7 Data warehouse
8 Billing
9 Legal archiving
10 Contingency services
11 Catalogue of messages

11.1 Introduction

11.2 General information

11.2.1 Message validation

11.2.2 Communication infrastructure

11.3 List of messages

11.3.1 Account management (acmt)

11.3.2 Administration (admi)

11.3.3 Cash management (camt)

11.3.3.1 ModifyStandingOrder (camt.024)

11.3.3.1.1 Overview and scope of the message

This chapter illustrates the ModifyStandingOrder message.

The ModifyStandingOrder message is sent by an actor authorised to create or modify standing orders for liquidity transfers.

The ModifyStandingOrder message is replied by a camt.025 to return a positive technical response to the sender of the message or to provide detailed information in case of an error.

11.3.3.1.2 Schema

Outline of the schema

The ModifyStandingOrder message is composed of the following message building blocks:
MessageHeader

This block is mandatory and provides with the message identification provided by the requesting actor.

StandingOrderIdentification

This block is mandatory and provides with all the key information to identify an existing standing order to be amended or a new standing order to be created.

NewStandingOrderValueSet

This block is mandatory and provide with the pieces of information related to the standing order to be modified or created.

It includes the amount to be transferred, the required account references to perform the transfer, the intended validity period and the execution type in terms of event identification.

References/links

The schema and the related documentation in HTML/PDF format as well as the message examples are provided within the MyStandards repository under the following link:

https://www.swift.com/mystandards/CSLD/camt.024.001.05

11.3.3.2 GetStandingOrder (camt.069)

11.3.3.2.1 Overview and scope of the message

This chapter illustrates the GetStandingOrder message.

The GetStandingOrder message is sent by an authorised actor to retrieve standing order information.

The GetStandingOrder message is replied by a camt.070 to return the retrieved standing order information or to provide detailed information in case of an error (eg no rows retrieved).

11.3.3.2.2 Schema

Outline of the schema

The GetStandingOrder message is composed of the following message building blocks:

MessageHeader

This block is mandatory and provides with the message identification provided by the requesting actor.
RequestType

This block is optional and can be used to specify which kind of query must be performed.

StandingOrderQueryDefinition

This block is mandatory and provides with all the search criteria that must be used to filter standing order records in the CRDM coverage. Possible criteria are account and BIC.

References/links

The schema and the related documentation in HTML/PDF format as well as the message examples are provided within the MyStandards repository under the following link:

https://www.swift.com/mystandards/CSLD/camt.069.001.02

11.3.3.3 ReturnStandingOrder (camt.070)

11.3.3.3.1 Overview and scope of the message

This chapter illustrates the ReturnStandingOrder message.

The ReturnStandingOrder message is sent by CRDM to an authorised actor to provide with requested standing order information.

The ReturnStandingOrder message is sent as a response to a previously sent camt.069.

11.3.3.3.2 Schema

Outline of the schema

The ReturnStandingOrder message is composed of the following message building blocks:

MessageHeader

This block is mandatory and provides with the message identification provided by the requesting actor as well as the original business query message identification and the request type specifying the kind of query that has been performed.

ReportOrError

This block is mandatory and includes either the retrieved records or the error occurred during the query processing (eg no records retrieved).
Report

This block is mandatory and provides with all the pieces of information related to the retrieved standing order.

References/links

The schema and the related documentation in HTML/PDF format as well as the message examples are provided within the MyStandards repository under the following link:

https://www.swift.com/mystandards/CSLD/camt.070.001.03

11.3.3.4 DeleteStandingOrder (camt.071)

11.3.3.4.1 Overview and scope of the message

This chapter illustrates the DeleteStandingOrder message.

The DeleteStandingOrder message is sent by an actor authorised to delete standing orders for liquidity transfers.

The DeleteStandingOrder message is replied by a camt.025 to return a positive technical response to the sender of the message or to provide detailed information in case of an error.

11.3.3.4.2 Schema

Outline of the schema

The DeleteStandingOrder message is composed of the following message building blocks:

MessageHeader

This block is mandatory and provides with the message identification provided by the requesting actor.

StandingOrderDetails

This block is mandatory and provides with all the key information to identify an existing standing order to be deleted. Both identification and account identification must be provided.

References/links

The schema and the related documentation in HTML/PDF format as well as the message examples are provided within the MyStandards repository under the following link:
11.3.4 Headers (head)

11.3.5 Payments clearing and settlement (pacs)

11.3.6 Reference data (reda)
12 Index and digital signature

12.1 Index of business rules and error codes

12.2 Index of status value and codes

12.3 Index of instruction references

12.4 Digital signature on business layer
13 Additional information for CBs

13.1 Role of CBs in the RTGS service

13.2 Reference data for central banks

13.2.1 Specific data for CBs

13.2.2 Setup of RTGS related reference data

13.3 Settlement of payments - specific functions for CBs

13.4 End-of-day procedures

13.5 Query management - CB specific queries

13.6 Data warehouse - specific functions for CBs

13.7 Billing - specific functions for CBs

13.8 Contingency services - specific functions for CBs