



BANQUE CENTRALE DU LUXEMBOURG  
EUROSYSTÈME

# Target Consolidation Training

Virtual Info session n°07 How to manage liquidity on CLM?

2021-11-23

*9h30 – 12h*

*WEBEX EVENT*



# Event rules

Join Event Now

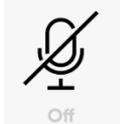
To join this event, provide the following information.

First name:

Last name:

Email address:

Event password:



## 6. Q&A

- Make sure you respect the naming convention
  - First name = Full name (first name + last name)
  - Last name = Bank name
  - Email = Professional email address
- Camera off by default
- Microphone off by default
- Questions allowed in the chat or by raising hand
  - In case of too many questions, send your question to [Target.conso@bcl.lu](mailto:Target.conso@bcl.lu)
- Do not forget to lower hand after having asked a question

# Training agenda

TARGET CONSOLIDATION PROJECT BCL Training sessions for future MCA holders in Luxembourg 2021 Program							
	What ?		When ?	How long ?	Who attends ?		
n°	Topic	details	Event Date 2021	Session format	Configuration A A2A + U2A	Configuration B U2A only	Configuration C Co-managed
1	Registration forms	How to fill in the form and send it to the BCL ?	28-sept Postponed	1h morning Session	YES	YES	YES
2	Connectivity	Focus on connectivity testing and upcoming milestones	28-sept	1h morning Session	YES	YES	NO
3	Introduction - Basic concepts	Vision 2020, ESMIG, A2A vs U2A, MCA vs DCA	17-nov	1h morning Session	YES	YES	YES
4	Introduction - Business day	New Business day in TARGET services	17-nov	1h morning Session	YES	YES	Optional
5	CRDM Reference data - Basics	Account details and how to create users ? How to assign roles and privileges ?	22-nov	1h morning Session	YES	YES	NO
6	CRDM Reference data - Configuration	How to configure my account ? How to set-up reports and messages ?	22-nov	1h morning Session	YES	YES	NO
7	CLM - Liquidity management	How do I manage my liquidity in CLM?	23-nov	1h morning Session	YES	YES	NO
8	CLM - CB services	Central bank services: Minimum reserves, Standing Facilities, etc	23-nov	1h morning Session	YES	YES	NO
9	CLM - ISO 20022 messages	Focus on CLM ISO 20022 key messages	23-nov	1h morning Session	YES	NO	NO
10	RTGS - Liquidity management	How to manage liquidity on RTGS? Interaction with other services	24-nov	1h morning Session	YES if RTGS	YES if RTGS	NO
11	RTGS - Payments	How do I instruct a payment?	24-nov	1h morning Session	YES if RTGS	YES if RTGS	NO
12	RTGS - ISO 20022 messages	Focus on RTGS ISO20022 key messages	24-nov	1h morning Session	YES if RTGS	NO	NO
13	Testing and migration	Testing and migration in 2022	25-nov	1h morning Session	YES	YES	NO
14	Additional features	Billing, datawarehouse	25-nov	1h morning Session	YES	YES	NO
15	Co-management	Focus on co-manager activities	26-nov	1h morning Session	YES if co-manager	YES if co-manager	Optional
16	Co-management	Focus on co-managees activities	26-nov	1h morning Session	Optional	Optional	YES

# Agenda

0. Welcome
1. Introduction
2. Available Liquidity & Liquidity Reservation
  - 2.1 Overview
  - 2.2 U2A Liquidity reservation
  - 2.3 A2A Liquidity reservation
3. Floor/ceiling
4. Liquidity transfers
  - 4.1 Overview
  - 4.2 Liquidity Transfer Group - LTG
  - 4.3 Immediate liquidity transfers
  - 4.4 Automated liquidity transfers
  - 4.5 Standing orders for liquidity transfers
  - 4.6 Rule-based liquidity transfers
5. Liquidity monitoring
  - 5.1 Overall liquidity monitoring
  - 5.2 Statement of account
  - 5.3 Account Monitoring Group - AMG
6. Closing of the event



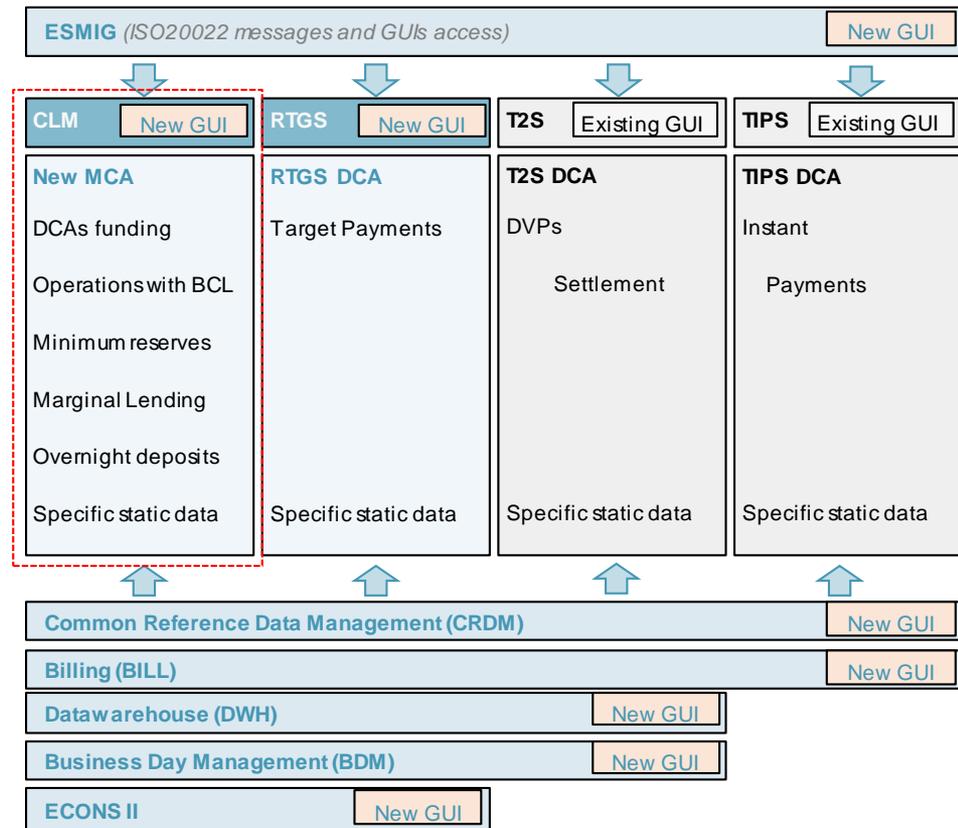


# 1. Introduction

# 1. Introduction

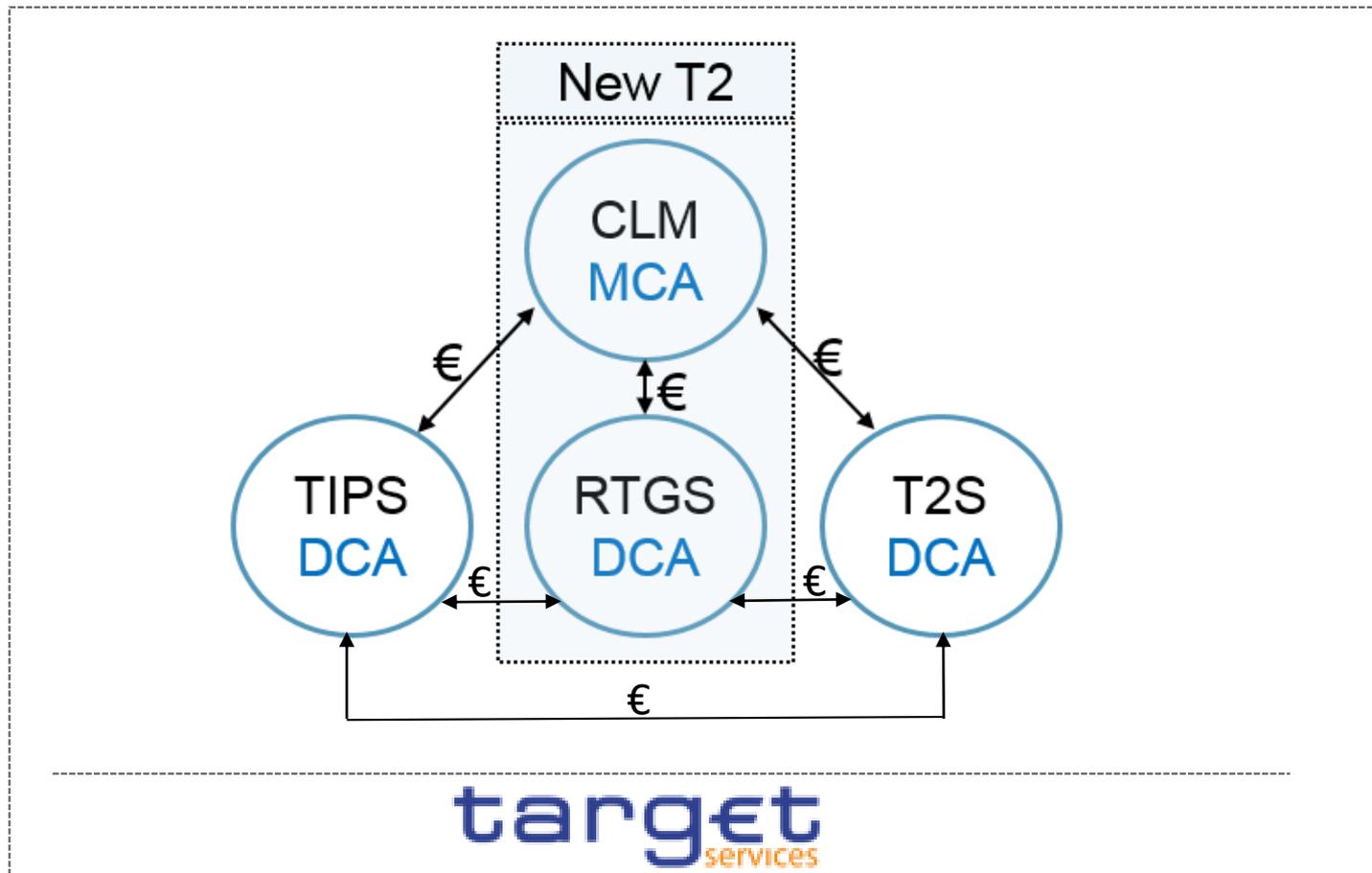
**CLM is one of the core T2 services where:**

- Participants can **manage liquidity**
- **Central bank operations** take place
- All participants have a **Main Cash Account**



# 1. Introduction

CLM offers a **centralised mechanism** to manage and monitor liquidity



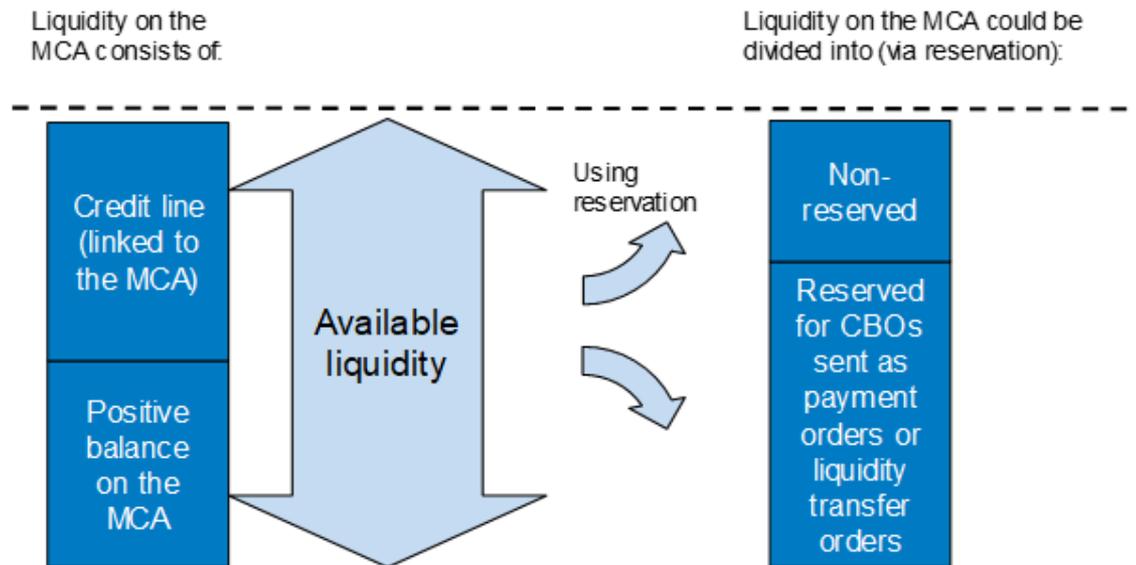


## 2. Available Liquidity & Liquidity Reservation

# 2. Available Liquidity & Liquidity Reservation

## 2.1 Overview

- Available liquidity = Positive account balance + Credit line
- Central Bank Operations (CBOs) will settle in the Main Cash Account (MCA)
- Liquidity can be reserved for CBOs (**optional**) during all day (excluding maintenance window)
- Current reservations (effective immediately) vs Standing order reservations (effective next BD)
- Reservations can be made in U2A and in A2A – *see next slides*



# 2. Available Liquidity & Liquidity Reservation

## 2.2 U2A Liquidity reservation - *immediate*

*How to reserve liquidity in U2A?*

- [CLM GUI path](#): Liquidity Management Features >> Reservations – Query
- [Privileges](#): CLM\_QueryCurReservation
- [Screen](#): Reservations – Query

The screenshot shows a web application interface for 'Query Reservations'. The header is dark blue with a hamburger menu icon, an envelope icon, and the text 'Query Reservations' and 'Query Reservations'. On the right side of the header are icons for a star, a question mark, a gear, and a power button. Below the header is a 'Search Criteria' section with a minus sign icon. Underneath is a 'Reservations\*' section with two input fields: 'Account Number' and 'Account BIC'. Each input field has a small blue square with a white 'q' icon to its right. At the bottom left of the form are two buttons: 'Submit' and 'Reset'.

# 2. Available Liquidity & Liquidity Reservation

## 2.2 U2A Liquidity reservation - *immediate*

*How to reserve liquidity in U2A?*

- **CLM GUI path:** After clicking Submit in the previous screen, the Display reservations screen allows to modify/enter a new reservation
- **Privileges:** CLM\_ModifyCurReservation
- **Screen:** Reservations – Display

The screenshot shows the 'Display Reservations' interface. At the top, there is a header with a hamburger menu, an envelope icon, and the title 'Display Reservations'. On the right side of the header are icons for a star, a question mark, a gear, and a power button. Below the header, there is a 'Search Criteria' section with a plus sign and a 'Results' section with a minus sign. The 'Account Information' section contains three input fields: 'Party BIC' (PBAACDF0008), 'Account Number' (MACASHPBAACDF0008EUR0008), and 'Account BIC' (PBAACDF0009). Below this is a table for 'Reservation for Central Bank Operations' with columns: 'Reservation Amount', 'Pending Reservation', 'Defined Value', and 'New Reservation Amount'. The first row shows values: 20,000,000.00 EUR, 5,000,000.00 EUR, 15,000,000.00 EUR, and an input field with 'EUR' next to it. Below that is a table for 'Reservation for Seizure of Funds' with the same columns. The first row shows values: 10,000,000.00 EUR, 0.00 EUR, 10,000,000.00 EUR, and an input field with 'EUR' next to it. A red box highlights the 'Reservation for Seizure of Funds' table and the text 'CB ONLY' is written in red to the left of the first row. At the bottom left, there are 'Submit' and 'Reset' buttons.

Reservation Amount	Pending Reservation	Defined Value	New Reservation Amount
20,000,000.00 EUR	5,000,000.00 EUR	15,000,000.00 EUR	<input type="text"/> EUR

Reservation Amount	Pending Reservation	Defined Value	New Reservation Amount
10,000,000.00 EUR	0.00 EUR	10,000,000.00 EUR	<input type="text"/> EUR

**CB ONLY**

# 2. Available Liquidity & Liquidity Reservation

## 2.2 U2A Liquidity reservation – *standing order*

*How to reserve liquidity in U2A?*

- [CRDM GUI path](#): T2 >> Cash >> Standing Order for Reservation >> New/Edit
- [Privileges](#): Create Standing Order for Reservation & Update Standing Order for Reservation
- [Screen](#): Standing Order for Reservation – new/edit

The screenshot displays the 'STANDING ORDER RESERVATION NEW' form. At the top, a breadcrumb trail shows 'T2 > Cash > Standing Order Reservation > + New'. The form fields are as follows:

- Cash Account Number**: A dropdown menu with 'Choose...' selected.
- Amount**: An empty text input field.
- Priority**: A dropdown menu.
- Valid From**: A date input field with 'yyyy-mm-dd' and a calendar icon.
- Valid To**: A date input field with 'yyyy-mm-dd' and a calendar icon.

On the right side, there are three buttons: 'Submit' (a plus sign), 'Reset' (a circular arrow), and 'Cancel' (an 'x').

# 2. Available Liquidity & Liquidity Reservation

## 2.3 A2A Liquidity reservation

*How to reserve liquidity in A2A?*

- Liquidity reservations can be managed in A2A using the following messages:

Message type	Use case	Sent by
<a href="#">camt.046</a> GetReservation	Request details of one or more current reservation(s) set on CLM MCA(s) on the current business day	Business sender
<a href="#">camt.047</a> ReturnReservation	Provide details of one or more current reservation(s) set on the requested CLM MCA(s), or information that no current reservation is defined	CLM
<a href="#">camt.048</a> ModifyReservation	Used to (i) create/modify a current reservation (in CLM) (ii) modify standing order for reservation (in CRDM) during the current business day	Business sender
<a href="#">camt.049</a> DeleteReservation	Used to delete the current reservation during the current business day	Business sender

- Detailed information is available in the CLM UDFS chapter 12. List of messages



## 3. Floor/ceiling

# 3. Floor/Ceiling

- The set up is done in **CRDM**
- Two **options** that can be combined:

## 1. Breach notifications

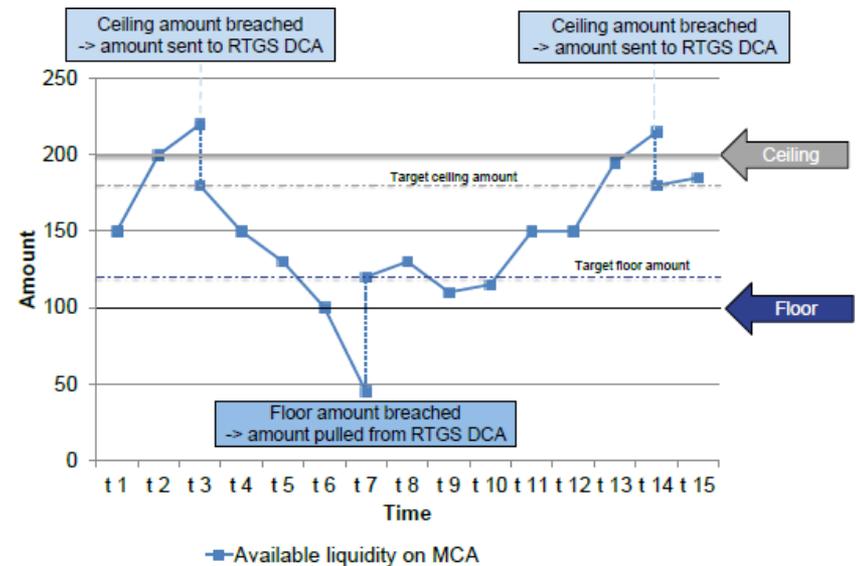
- A2A (**camt004**), or
- alert in U2A

vs

## 2. Rule based Liquidity transfers (see 4.6)

- Floor/ceiling amount vs Target amount
- Liquidity transfers will NOT trigger a check for floor/ceiling breach.
- Already notified breaches will not be notified again

*Example of floor/ceiling on MCA*



# 3. Floor/Ceiling

*How to set up floor/ceiling in U2A?*

- **CRDM GUI path:** Common >> Cash >> Cash Accounts >> Search
- **Privileges:** Cash Account list query
- **Screen:** Cash account List

**CASH ACCOUNT LIST**

Status: Active | Cash Account Number: | Account Type: All | Linked Account: | Parent BIC: Choose BIC | Party BIC: Choose BIC | Party Type: All | Currency: All | Opening Date From: yyyy-mm-dd | Opening Date To: yyyy-mm-dd | Closing Date From: yyyy-mm-dd | Closing Date To: yyyy-mm-dd

Q Search | X Reset | + New

Status	Cash Ac...	Account...	Linked...	Parent...	Party BIC	Party Short...	Party Ty...	CUR	Opening...	Closing...
Active	ACT TEST DC	T2S Dedicated	PBBKITRR102	NCBXITRR00	PBBKITRR102	PB OF NCBXITRR	Payment Bank	EUR	2019-10-31	2019-11-01
Active	ANSYTECHAC	Ancillary Syste		NCBXITRR00	ASIKITRR200	Test CSLD ASI	Ancillary Syste	EUR	2019-10-11	2020-06-12
Active	ANSYTECHAC	Ancillary Syste		NCBXITRR00	ASIKITRR200	Test CSLD ASI	Ancillary Syste	EUR	2020-04-07	2020-05-31
Active	ANSYGUARI	Ancillary Syste		NCBXITRR00	ASIKITRR200	Test CSLD ASI	Ancillary Syste	EUR	2020-06-15	2020-06-30
Active	BR Testing	Marginal Lendi	MCAACCOUN	TCSOTCS0XX	NCBXITRR00	NCB of N8IT	National Centr	EUR	2020-06-22	2020-06-26
Active	CONTINGENC	Contingency A		NCBXITRR00	PMBKITRR20	Test CSLD PMBK	Payment Bank	EUR	2019-09-16	2019-09-25
Active	CONTINGENC	Contingency A		NCBXITRR00	PMBKITRR20	Test CSLD PMBK	Payment Bank	EUR	2019-09-27	2020-08-03

click on Edit button

# 3. Floor/Ceiling

*How to set up floor/ceiling in U2A?*

- **CRDM GUI path:** After clicking Edit in the previous screen, the Edit screen allows to modify/enter a new floor/ceiling
- **Privileges:** Update Cash Account
- **Screen:** Cash account Edit

Account Threshold Configuration

Target Amount After ...	Target Amount After ...	Associated LT Acco...	Floor Notification	Ceiling Notification	Rule-based LT for ...	Rule-based LT for ...
100,002	100,000,002	RLUEURBCEELULLXXXE	Yes	Yes	No	No

Can only be updated in U2A

### 3. Floor/Ceiling

*How to set up floor/ceiling in A2A?*

- **acmt.015 - AccountExcludedMandateMaintenanceRequest** can be used to instruct an update of the attributes related to floor/ceiling notification amounts\*
- CRDM will send in return:
  - **acmt.010 – AccountRequestAcknowledgement** when the update of the Cash Account has been successfully processed or queued
  - **acmt.011 – AccountRequestRejection** when the update has been rejected.
- Detailed information is available in the CLM UDFS chapter 12. List of messages

\* *Target floor and target ceiling amount can only be updated in U2A*



## 4. Liquidity transfers

# 4. Liquidity Transfers

## 4.1 Overview

Types	Description
Immediate liquidity transfers	Immediate transfer of liquidity initiated by the account holder or another authorised CLM actor in A2A or U2A
Standing orders for liquidity transfers	Recurring transfer of liquidity processed every business day at certain business day events (configuration done in CRDM)
Rule-based liquidity transfers	Transfer of liquidity initiated by CLM due to a floor or ceiling rule (configuration done in CRDM)
Automated liquidity transfers	Transfer of liquidity initiated by CLM sent to RTGS in order to transfer liquidity from the linked RTGS DCA due a queued/pending CBO ( <a href="#">mandatory</a> )

# 4. Liquidity Transfers

## 4.1 Overview

- Liquidity transfers can either
  - **push** liquidity to another cash account or
  - **pull** liquidity from another cash account

Liquidity transfer type	Initiator	Use case	Push/Pull	Counterpart cash account in	Notes
Immediate liquidity transfer order	CLM Actor	Intra-service	Push	CLM	LTG necessary
		Inter-service	Push	RTGS, TIPS, T2S	None
		Inter-service	Pull	RTGS, TIPS, T2S	U2A only
Automated liquidity transfer order	System	Inter-service	Pull	RTGS	Mandatory
Rule-based liquidity transfer order		Intra-service	Push or pull	CLM	None
		Inter-service	Push or pull	RTGS	None
		Standing order liquidity transfer order	Intra-service	Push	CLM
		Inter-service	Push	RTGS, TIPS, T2S	None

# 4. Liquidity Transfers

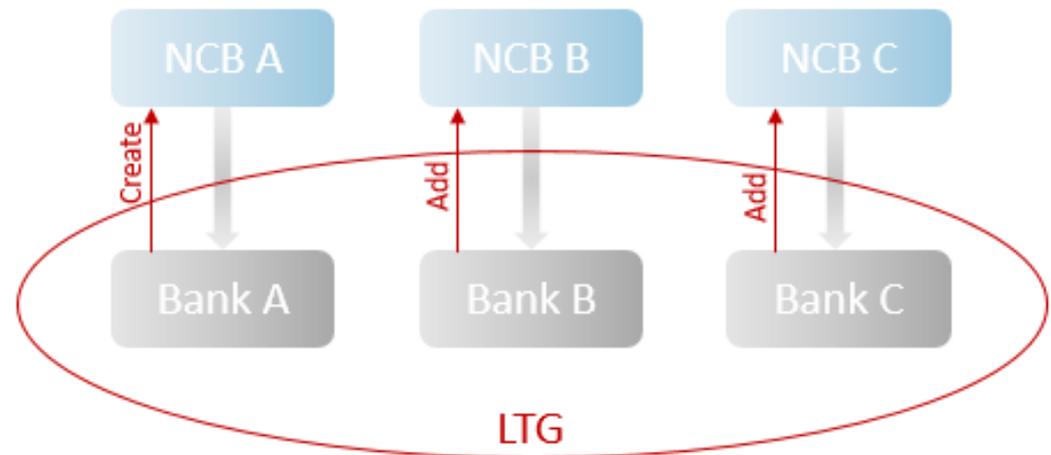
## 4.2 Liquidity Transfer Group - LTG

*How to request a LTG set-up?*

- LTG is a **precondition** for intra-service liquidity transfers
- On an **optional** basis the participant(s) can request their central bank to group accounts in a LTG
- LTG **is needed** even if the accounts belong to the same party
- LTG **is not needed** if one of the accounts involved in a liquidity transfer is a central bank account
- A LTG can be set-up **cross-border**:

For example if three banks in three different countries (A, B and C) want to create a LTG:

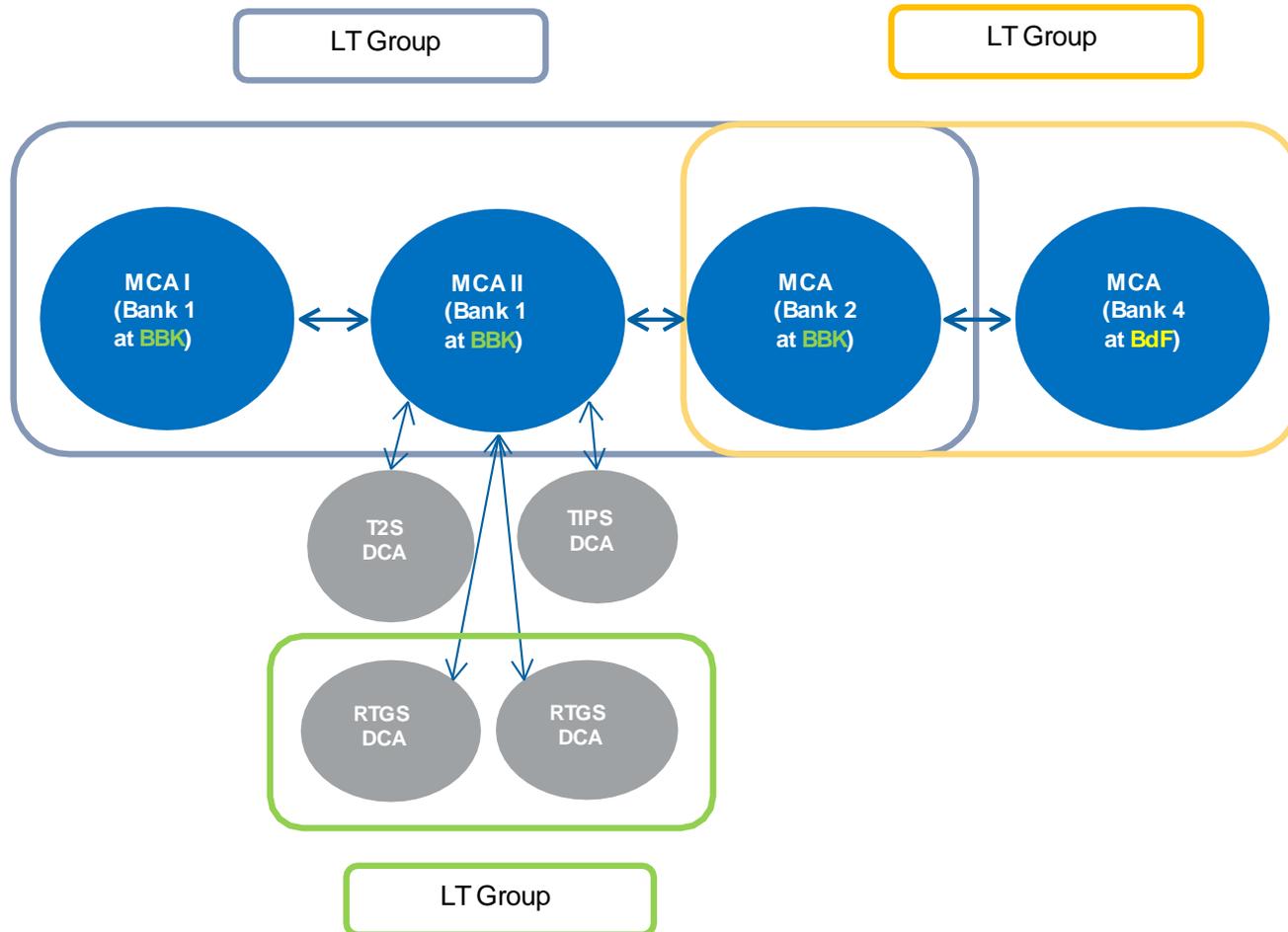
1. Bank A request NCB A to create the LTG with Bank A only
2. Bank B requests NCB B to add Bank B in the LTG
3. Bank C asks NCB C to add Bank C in the LTG



# 4. Liquidity Transfers

## 4.2 Liquidity Transfer Group - LTG

### Examples



# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in U2A?*

- CLM GUI path: Liquidity >> Liquidity Transfer – New
- Privileges: CLM\_IniImLiquiTrans
- Screen: Liquidity Transfer – New

**New Liquidity Transfer**  
New Liquidity Transfer

**Liquidity Transfer Account Information**

Debit Account	Credit Account
Account Number* <input type="text"/>	Account Number* <input type="text"/>
<input type="button" value="Display Liquidity"/>	<input type="button" value="Display Liquidity"/>

**Liquidity Transfer Details**

Amount* <input type="text"/> EUR	End To End ID* <input type="text"/>
-------------------------------------	----------------------------------------

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

- LTs are initiated using the [camt.050](#) LiquidityCreditTransfer message
- The participant receives in return a [camt.025](#) Receipt message
- The participant owing the credited account can **optionally** subscribe to a [camt.054](#) to be notified of the credit



The camt.050 is always sent to the service of the debited account

The camt.025 is generated by the service where the camt.050 was sent to

**e.g.** transfer liquidity a MCA to a RTGS DCA:

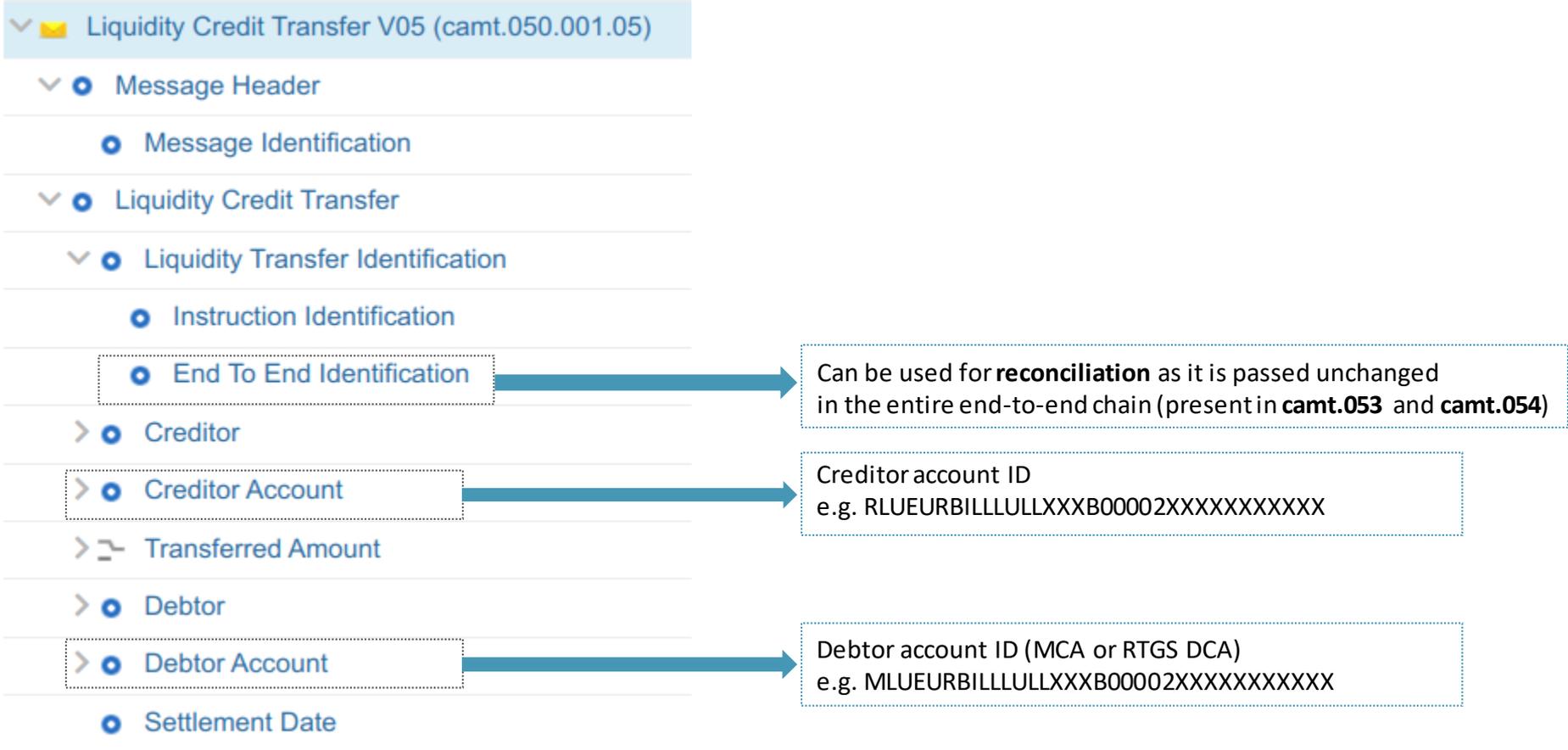
- the **TO** part of the *head.001* linked to the camt.050 must contain the CLM BIC i.e. **TRGTXEPMCLM**
- the **FROM** part of the *head.001* linked to the camt.025 will also contain the CLM BIC

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

### ➤ Main elements of the camt.050 message



# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

Example of `camt.050`

For illustration purposes

```
- <AppHdr xmlns="urn:iso:std:iso:2002:tech:xsd:head.001.001.01">
  - <Fr>
    - <FIId>
      - <FinInstnId>
        <BICFI>BCLXLULLXXX</BICFI>
        - <ClrSysMmbId>
          <MmbId>UBCL-bcl-02</MmbId>
        </ClrSysMmbId>
      </FinInstnId>
    </FIId>
  </Fr>
  - <To>
    - <FIId>
      - <FinInstnId>
        <BICFI>TRGTXEPMCLM</BICFI>
      </FinInstnId>
    </FIId>
  </To>
  <BizMsgIdr>BOXFJ783vu39VczD</BizMsgIdr>
  <MsgDefIdr>camt.050.001.05</MsgDefIdr>
  <CreDt>2021-11-16T13:42:09Z</CreDt>
</AppHdr>
```

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

Example of `camt.050`  
For illustration purposes

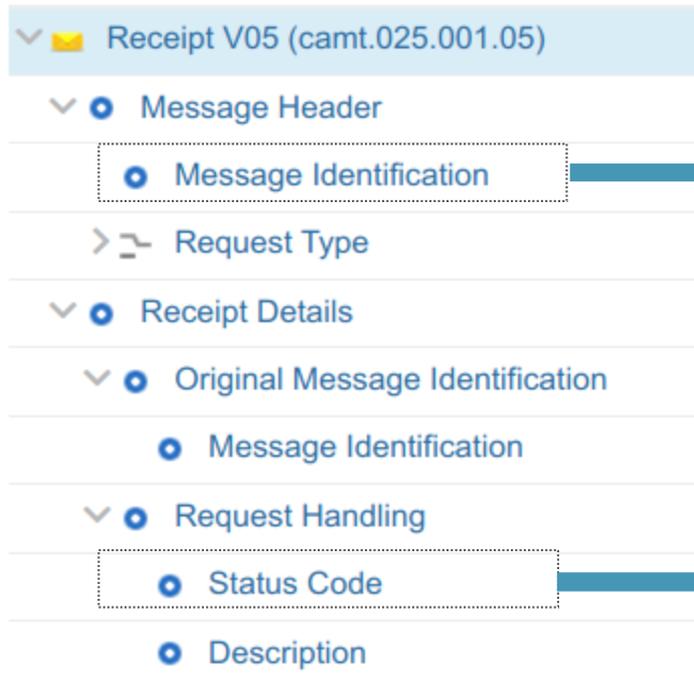
```
- <Document xmlns="urn:iso:std:iso:20022:tech:xsd:camt.050.001.05">
  - <LqdtYcDtTrf>
    - <MsgHdr>
      <MsgId>NONREF</MsgId>
    </MsgHdr>
  - <LqdtYcDtTrf>
    - <LqdtYTrfId>
      <InstrId>TEST CLM T LIIE</InstrId>
      <EndToEndId>PUSH LT CLM TO RTGS</EndToEndId>
    </LqdtYTrfId>
    - <CdtrAcct>
      - <Id>
        - <Othr>
          <Id>RLUEURBCLXLULLXXXB00000BCLXLULLXXX</Id>
        </Othr>
      </Id>
    </CdtrAcct>
    - <TrfdAmt>
      <AmtWthCcy Ccy="EUR">20</AmtWthCcy>
    </TrfdAmt>
    - <DbtrAcct>
      - <Id>
        - <Othr>
          <Id>MLUEURBCLXLULLXXXB00000BCLXLULLXXX</Id>
        </Othr>
      </Id>
    </DbtrAcct>
  </LqdtYcDtTrf>
</LqdtYcDtTrf>
</Document>
```

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

### ➤ Main elements of the camt.025 message



Copy of the Business Message Identifier (BizMsgIdr) used in the head.001 of camt.050 (reconciliation of camt.025 with camt.050)

Either SSET (settled) or an error code (defined in the UDFS) e.g. E042 – Insufficient liquidity

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

Example of `camt.025`

For illustration purposes

```
- <AppHdr xmlns="urn:iso:std:iso:20022:tech:xsd:head.001.001.01">
  - <Fr>
    - <FIId>
      - <FinInstnId>
        <BICFI>TRGTXEPMCLM</BICFI>
      </FinInstnId>
    </FIId>
  </Fr>
  - <To>
    - <FIId>
      - <FinInstnId>
        <BICFI>BCLXLULLXXX</BICFI>
      </FinInstnId>
    </FIId>
  </To>
  <BizMsgIdr>109900</BizMsgIdr>
  <MsgDefIdr>camt.025.001.05</MsgDefIdr>
  <CreDt>2021-11-16T13:51:21.277Z</CreDt>
  - <Sgntr>
    - <ds:Signature Id="_e3f22221-5d3c-44df-8f27-c69e82cd6487" xmlns:ds="http://ww
```

# 4. Liquidity Transfers

## 4.3 Immediate Liquidity Transfers

*How to initiate LTs in A2A?*

Example of `camt.025`

For illustration purposes

```
- <Document xmlns="urn:iso:std:iso:20022:tech:xsd:camt.025.001.05">
  - <Rct>
    - <MsgHdr>
      <MsgId>NONREF</MsgId>
      - <ReqTp>
        - <Prtry>
          <Id>SSTS</Id>
        </Prtry>
      </ReqTp>
    </MsgHdr>
    - <RctDtls>
      - <OrgnlMsgId>
        <MsgId>BOXFJ783vu39VczD</MsgId>
      </OrgnlMsgId>
      - <ReqHdlg>
        <StsCd>SSET</StsCd>
      </ReqHdlg>
    </RctDtls>
  </Rct>
</Document>
```

# 4. Liquidity Transfers

## 4.4 Automated Liquidity Transfers

- Relevant only for participants having at least one RTGS DCA
- CB links **1:1** the MCA and the RTGS DCA in CRDM (**precondition** for automated LTs)
- In case of insufficient liquidity on the MCA for the settlement of **central bank operations (CBOs)** or **seizure of funds** the missing liquidity will be pulled from the linked RTGS DCA
- An **automated LT** is created and sent to RTGS
- If there are no funds in the RTGS DCA:
  - *The automated LT is placed on top of the queue with highest priority*
- If there are insufficient funds in the RTGS DCA:
  - *The automated LT settles partially*
  - *A new automated LT for the unsettled amount is created and placed on top of the queue.*
- If funds arrive in the MCA the automated LT is deleted.

# 4. Liquidity Transfers

## 4.5 Standing Orders for Liquidity Transfers

- Standing order for LTs:
  - recurring order to transfer liquidity
  - once per business day;
  - at a configured business day event;
  - with a defined amount of liquidity;
  - from an MCA to another cash account
  
- Set – up in **CRDM**
  
- Changes will be valid as of the next business day
  
- **Use cases** in CLM (*relevant for payment banks*):
  - Intra-service: MCA -> MCA (within a Liquidity Transfer Group)
  - Intra-service: MCA -> Overnight Deposit Account
  - Inter-service: MCA -> Cash account in another service (i.e. RTGS, T2S, TIPS)
  
- In case of insufficient funds on the MCA
  - a **partial execution** is possible (also with the amount 0,00 €).
  - standing orders with the same execution event will be processed „**pro rata**“.
  - the amounts not processed due to partial execution will **not be queued** (i.e. no further processing)

# 4. Liquidity Transfers

## 4.5 Standing Orders for Liquidity Transfers

*How to set-up a standing order for LTs in U2A?*

- **CRDM GUI path:** Common >> Cash >> Standing/Predefined Liquidity Transfer Order >> New OR Common >> Cash >> Standing/Predefined Liquidity Transfer Order >> Search >> click on New
- **Privileges:** Create Liquidity Transfer Order, Update Liquidity Transfer Order
- **Screen:** Standing/Predefined Liquidity Transfer Order – new/edit

The screenshot shows the 'STANDING/PREDEFINED LIQUIDITY TRANSFER ORDER NEW' form. The breadcrumb navigation at the top reads: Common > Cash > Standing/Predefined Liquidity Transfer Order > + New. The form fields are as follows:

- Order Reference: [Text Input]
- Valid From: [Date Picker (yyyy-mm-dd)]
- Valid To: [Date Picker (yyyy-mm-dd)]
- Amount: [Text Input]
- Currency: [Text Input]
- Dedicated Amount:
- All Cash:
- Order Type: [Dropdown Menu] (highlighted with a red box)
- Event Type: [Dropdown Menu]
- Execution Time: [Time Picker (0:0)]
- Creditor Account Type: [Dropdown Menu]
- Creditor Cash Account Number: [Text Input: Choose...]
- Debited Cash Account Number: [Text Input: Choose...]
- AS Procedure: [Dropdown Menu]

On the right side of the form, there are four circular buttons: a menu icon (three horizontal lines), a plus sign (+) labeled 'Submit', a circular arrow labeled 'Reset', and a minus sign (-) labeled 'Cancel'.

Select "Standing" as order type

# 4. Liquidity Transfers

## 4.6 Rule-based Liquidity Transfers

- Transfer of liquidity initiated by CLM due to a **floor or ceiling rule**
- Can be related with **different MCAs and/or RTGS DCAs** also belonging to different parties.
- Rule-based liquidity transfer orders for floor breach and ceiling breach can be set-up **independently**.
- **Precondition:** There is already a ceiling/floor rule defined for the account
- **Breach of the floor amount**
  - CLM **pulls** liquidity from the linked account to reach the pre-defined target floor amount
  - If insufficient liquidity on the defined account the LT settles partially without further settlement attempt
- **Breach of the ceiling amount**
  - CLM **pushes** liquidity towards the linked account
  - The amount to be transferred is the difference between the currently available liquidity on the MCA and the predefined target ceiling amount.

# 4. Liquidity Transfers

## 4.6 Rule-based Liquidity Transfers

*How to set-up rule-based LTs in U2A?*

- **CRDM GUI path:** Common >> Cash >> Standing/Predefined Liquidity Transfer Order >> New
- **Privileges:** Create Liquidity Transfer Order, Update Liquidity Transfer Order
- **Screen:** Standing/Predefined Liquidity Transfer Order – new/edit

The screenshot shows the 'STANDING/PREDEFINED LIQUIDITY TRANSFER ORDER NEW' form. The breadcrumb navigation is 'Common > Cash > Standing/Predefined Liquidity Transfer Order > + New'. The form fields are as follows:

- Order Reference: [Text Input]
- Valid From: [Date Picker] (format: yyyy-mm-dd)
- Valid To: [Date Picker] (format: yyyy-mm-dd)
- Amount: [Text Input]
- Currency: [Text Input]
- Dedicated Amount:
- All Cash:
- Order Type: [Dropdown Menu] (highlighted with a red box)
- Event Type: [Dropdown Menu]
- Execution Time: [Time Picker] (format: HH:MM)
- Creditor Account Type: [Dropdown Menu]
- Creditor Cash Account Number: [Text Input] (value: Choose...)
- Debited Cash Account Number: [Text Input] (value: Choose...)
- AS Procedure: [Dropdown Menu]

On the right side, there are four buttons: a menu icon (three horizontal lines), a '+' button labeled 'Submit', a circular arrow button labeled 'Reset', and a '-' button labeled 'Cancel'.

*Select "Rule-based floor" or "Rule-based ceiling" as order type*



## 5. Liquidity monitoring

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in U2A?*

### 1. Monitoring cash account liquidity in CLM

- [CLM GUI path](#): Liquidity >> CLM Cash Account Liquidity
- [Privileges](#): CLM\_QueryAvaLiq
- [Screen](#): CLM Cash Account Liquidity – Query

The screenshot shows the 'Query CLM Cash Account Liquidity' interface. The title bar includes a hamburger menu, an envelope icon, the title 'Query CLM Cash Account Liquidity', and icons for favorites, help, settings, and power. Below the title bar is a 'Search Criteria' section with a 'General' tab. Under 'General', there are two input fields: 'Account Number' and 'Account BIC', each with a search icon. At the bottom left, there are 'Submit' and 'Reset' buttons.

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in U2A?*

### 1. Monitoring cash account liquidity in CLM

- **CLM GUI path:** Liquidity >> CLM Cash Account Liquidity – Query Screen >> [Submit]
- **Privileges:** CLM\_QueryAvaLiq
- **Screen:** CLM Cash Account Liquidity – Display screen

**Display CLM Cash Account Liquidity**  
Query CLM Cash Account Liquidity

Search Criteria

Results Last Refresh: 2021-10-29 11:29:23 CEST Refresh

**Account Information**

Party BIC	Party Name	Account Number	Account BIC
BCEBULL33XXX	BCEE	MLU8EURBCEBULL33XXX00001CLM8ACBCEE	BCEBULL33XXX

**Liquidity Information**

<b>Starting Balance</b>	<b>456.647.13 EUR</b>
<b>Settled Cash Transfers</b>	
▶ Settled Debit Liquidity Transfers	0.00 EUR
▶ Settled Credit Liquidity Transfers	0.00 EUR
▶ Settled Debit Payments	0.00 EUR
▶ Settled Credit Payments	0.00 EUR
<b>Current Balance</b>	<b>456.647.13 EUR</b>
Credit Line	2.090.073.135.24 EUR
<b>Available Liquidity</b>	<b>2.090.529.782.37 EUR</b>
<b>Queued Cash Transfers</b>	
▶ Queued Debit Payments	0.00 EUR
▶ Queued Credit Payments	0.00 EUR
▶ Pending Credit Line Changes	0.00 EUR

→  
*continues on next slide*

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in U2A?*

### 1. Monitoring cash account liquidity in CLM

- **CLM GUI path:** Liquidity >> CLM Cash Account Liquidity – Query Screen >> [Submit]
- **Privileges:** CLM\_QueryAvaLiq
- **Screen:** CLM Cash Account Liquidity – Display screen

*continues from previous slide*



Earmarked Cash Transfers	
▶ Earmarked Debit Cash Transfers	0.00 EUR
▶ Earmarked Credit Cash Transfers	0.00 EUR
<b>Projected Liquidity</b>	<b>2,090,529,782.37 EUR</b>
Reservations	
Reservations for Central Bank Operations	0.00 EUR
Reservations for Seizure of Funds	0.00 EUR
Pending Reservations	
Reservations for Central Bank Operations	0.00 EUR
Reservations for Seizure of Funds	0.00 EUR
Floor/Ceiling Information	
Floor Threshold	0.00 EUR
Ceiling Threshold	0.00 EUR

New Liquidity Transfer Order

Create/Modify Credit Line

CB only

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in U2A?*

### 2. Overall liquidity monitoring

- [CLM GUI path](#): Liquidity >> Dashboard Liquidity Overview
- [Privileges](#): CLM\_QueryAvaLiq
- [Screen](#): Dashboard Liquidity Overview – Query Screen (CB screen, participants do not have access to all the selection options)

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in U2A?*

### 2. Overall liquidity monitoring

- [CLM GUI path](#): Liquidity >> Dashboard Liquidity Overview
- [Privileges](#): CLM\_QueryAvaLiq
- [Screen](#): Dashboard Liquidity Overview Account Sel. grouped by Services – Display Screen (CB screen, participants do not have access to all the listed information)

The screenshot displays the 'Display Dashboard Liquidity Overview Account Selection grouped by Services' interface. It shows a summary table for CLM and detailed views for MCA 1, MCA 2, and CB Account. The 'Aggregated View' table on the right provides a consolidated overview of liquidity across different categories.

Category	Value
CLM	1,660,000,000.00 EUR
Available Liquidity in CLM	1,660,000,000.00 EUR
Available Liquidity in RTGS	600,000,000.00 EUR
Available Liquidity in TIPS	65,000,000.00 EUR
Available Liquidity in T2S	500,000,000.00 EUR
Available Liquidity Overall	2,825,000,000.00 EUR
Current Liquidity Overall	2,665,000,000.00 EUR

Account	Current Balance	Projected Liquidity
MCA 1	100,000,000.00 EUR	180,000,000.00 EUR
MCA 2	200,000,000.00 EUR	280,000,000.00 EUR
CB Account	200,000,000.00 EUR	200,000,000.00 EUR

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in A2A?*

- The following messages are used to monitor liquidity in A2A

Message type	Use case	Sent by
camt.003 GetAccount	Available liquidity CLM query: used to request CLM cash account balances and credit line information	Business sender
camt.004 ReturnAccount	Query response for available liquidity CLM query: used to provide the requested balance information	CLM

- Detailed information is available in the CLM UDFS Section 12. List of messages

# 5. Liquidity Monitoring

## 5.1 Liquidity Monitoring

*How to monitor liquidity in A2A?*

- The following messages are used to monitor liquidity in A2A

Message type	Use case	Sent by
camt.003 GetAccount	Available liquidity CLM query: used to request CLM cash account balances and credit line information	Business sender
camt.004 ReturnAccount	Query response for available liquidity CLM query: used to provide the requested balance information	CLM

- Detailed information is available in the CLM UDFS Section 12. List of messages

# 5. Liquidity Monitoring

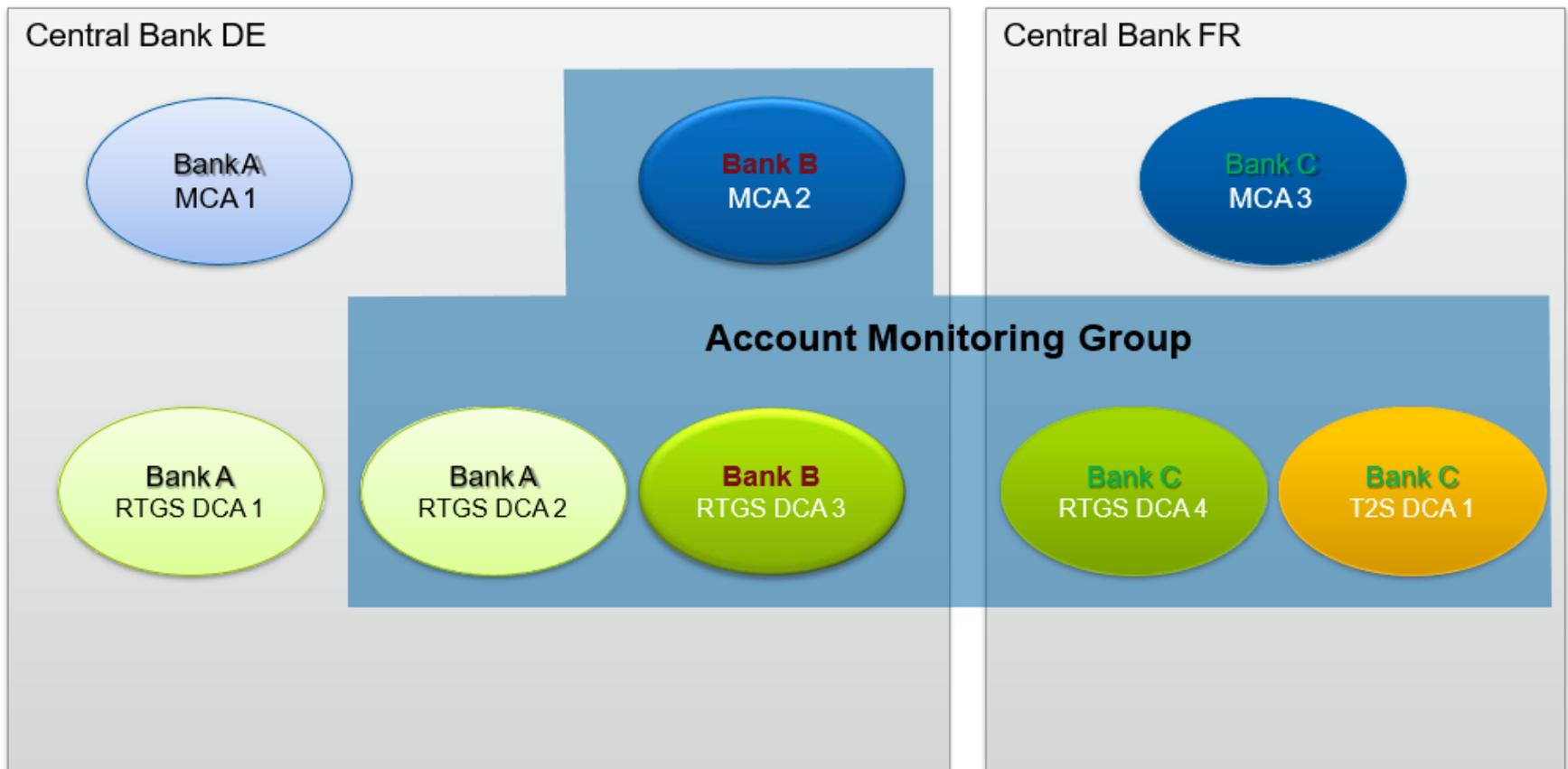
## 5.2 Statement of account

- The “statement of accounts” is created during the End-of-day period (18:00 - 18:45 CET), It is not created intraday.
- The report provides information on a single cash account and it contains information about all items that are posted on a cash account and balance information of the current business day
- The report is provided in the form of an ISO 20022 message:  
camt.053 – BanktoCustomerStatement
- To receive a statement of account report (for CLM or for RTGS accounts) the participant must configure this report in CRDM. This configuration is different from message subscription (i.e. you do not subscribe to a camt.053)
- For U2A only participants the statement of account will be displayed as a camt.053 XML message on the screen. The participant can initiate the download of the camt.053 XML string in a PDF format. The “Statement of Account” is available for download during 10 business days.

# 5. Liquidity Monitoring

## 5.2 Account Monitoring Group

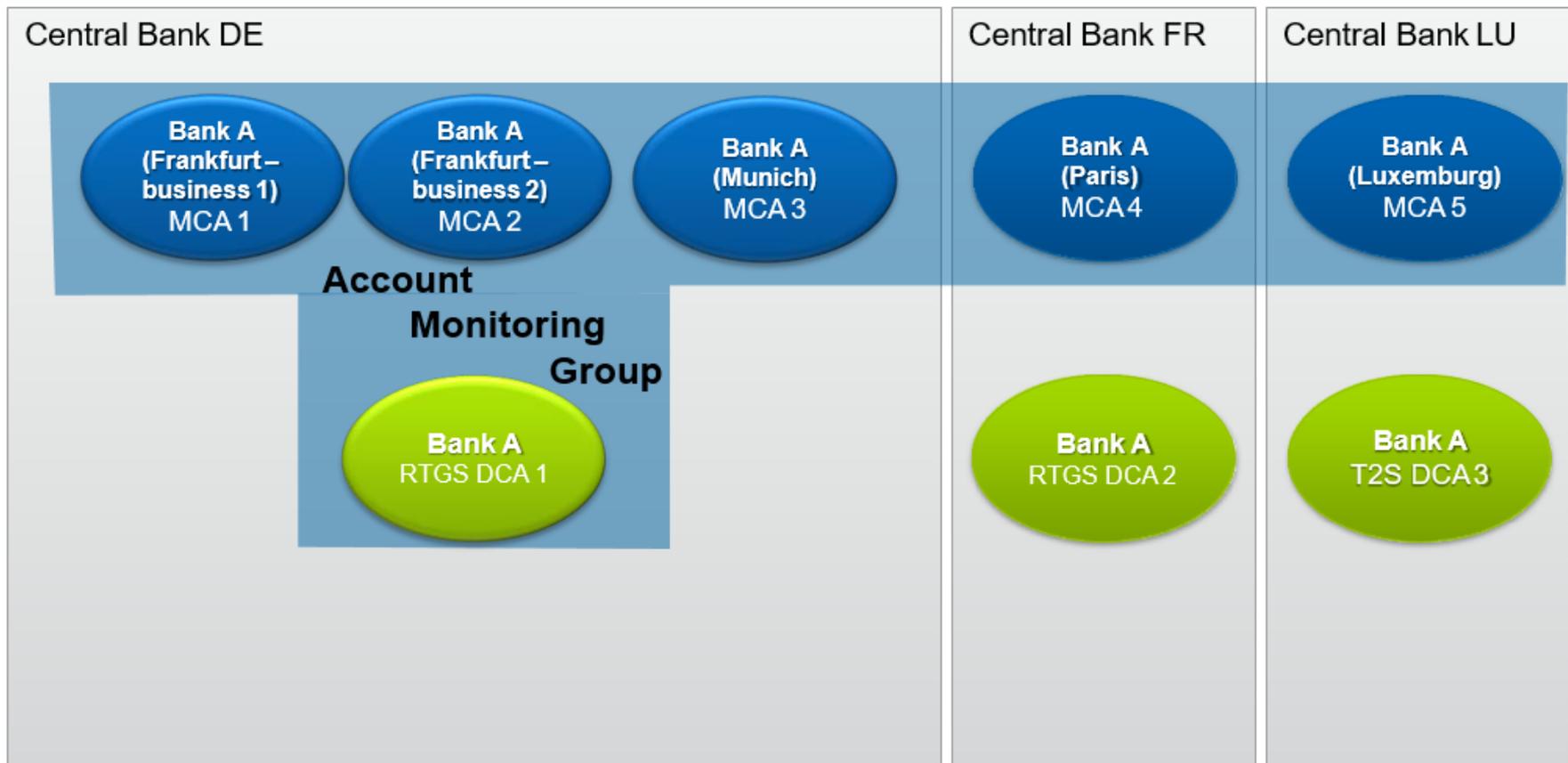
### Account Monitoring Group (example 1)



# 5. Liquidity Monitoring

## 5.3 Account Monitoring Group

### Account Monitoring Group (example 2)



# 5. Liquidity Monitoring

## 5.3 Account Monitoring Group

*How to set-up AMG in U2A?*

- **CRDM GUI path:** T2 >> Cash >> Account Monitoring Group >> New
- **Privileges:** Create Account Monitoring Group
- **Screen:** Account Monitoring Group – new/edit

**ACCOUNT MONITORING GROUP NEW**

Group Name:

Leader Parent BIC: NCBXITRR001      Leader Party BIC:

Cash Account number:

Valid From:         Valid To:

Cash Account Number	Valid From	Valid To
No Rows To Show		

Total rows: 0

# Event Closure

## Any questions ?

Documentation : <https://www.ecb.europa.eu/paym/target/consolidation/profuse/html/index.en.html>

CLM UDFS: Mainly chapter 5.4 Liquidity Management

CLM User handbook