General Information (Origin of Request)		
☒ User Requirements Document (URD) ☒ User Detailed Functional Specification (UDFS) ☐ User Handbook (UHB) ☐ Other User Functional or Technical Documentation (SYS)		
Request raised by: 4CB	**Institute:** ECB	**Date raised:** January 2020
Request title: Update of CRDM for CLM/RTGS objects		**Request ref. no:** CSLD-0038-URD
Request type: Common		
1. Legal/business importance parameter:	**2. Market implementation efforts parameter – Stakeholder impact:**	
3. Operational impact: na	**4. Financial impact parameter:**	
5. Functional/ Technical impact: low	**6. Interoperability impact:** low (T2S)	
Requestor Category: 4CB	**Status:** Pending MIB Approval	

Reason for change and expected benefits/business motivation:

Following the start of the CRDM implementation, additional requirements were identified on CLM/RTGS side. This Change Request lists the identified changes in an aggregated way, based on the following categories:

- New reference data objects that are not listed in the URD;

- Additional validation rules for existing reference data objects.

It lists changes related to the Cash Account reference data object, Liquidity Transfer Order object, Party object and Party Service Link object.

URDs for Common Components and CRDM UDFS should be updated as a result of this CR.

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Description of requested change:

The following changes have been identified

Cash Account

1. Two new Boolean attributes should determine whether rule-based liquidity transfers are automatically triggered in the presence of queued urgent payment orders/AS transfer orders or high payment orders in order to transfer liquidity from the MCA which is linked to an RTGS DCA via a 1:1 link (Associated Liquidity Transfer Account, see SHRD.UR.BDD.090). The two attributes which can be set up for RTGS DCAs only should allow to configure the new rule for the following scenarios:

   a. An urgent payment order or an AS transfer order gets queued;

    b. An urgent payment order, an AS transfer order or a high priority payment order gets queued.

A business rule in CRDM is needed in order to ensure that the attributes can only be used if the link is set up beforehand.

2. New validation at Cash Account level to prevent opening Cash Accounts with different currencies than the one defined at System Entity level.

Liquidity Transfer Order

3. A new attribute should allow specifying if a Standing Order LTO is related to AS Procedure C or D. In this scenario the following types of LTOs would be possible:

    a. intra-service liquidity transfer to a linked sub-account at each automated start of mandatory procedure (AS settlement procedure C)

    b. intra-service liquidity transfer to a linked sub-account at each manual start of optional procedure (AS settlement procedure C);

    c. intra-service liquidity transfer to an AS technical account at each automated start of mandatory procedure (AS settlement procedure D).

Party

4. Different Parties with same BIC should not be able to connect to CLM and RTGS simultaneously.

Party Service Link

5. Different Parties with same BIC should not be able to connect to CLM and RTGS simultaneously.

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Submitted annexes / related documents:

None
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Proposed wording for the Change request:

URDs for common components

Id	SHRD.UR.BDD.090
Name	Cash Account
Description	This entity shall denote any cash account required by the Eurosystem Market Infrastructure Services. For certain Cash Account Types, the Account Owner may not have any other Cash Accounts. <u>Mandatory attributes:</u> • **Service Identifier** Possible values are: 　RTGS 　CLM 　TIPS 　T2S • **Account Number** (KEY) The Account Number uniquely identifies the Cash Account • **Cash Account Type** For RTGS: 　RTGS DCA, 　Guarantee account, 　Sub account for AS settlement, 　CB Account, 　Dedicated Transit Account, 　Technical account For Ancillary Systems: 　Guarantee account, 　Technical account For CLM: 　Main Cash Account (MCA), 　Overnight Deposit (OD) account, 　CB Account, 　CB ECB Account, 　ECB mirror account, 　Dedicated Transit Account, 　Marginal Lending Account For TIPS: 　TIPS DCA, 　Dedicated Transit Account For T2S: 　T2S DCA, 　CB Account, 　Dedicated Transit Account • **Currency Code** The Cash Account's currency, which is an eligible settlement currency • **Account Owner** The Party who owns the Cash Account • **Status** Current blocking status of the Cash Account; unblocked, blocked for debiting, blocked for crediting or blocked for both • **Opening Date** The date as of which a Cash Account is legally opened <u>Optional attributes:</u> • **Floor** A lower threshold which may trigger the sending of a notification message and/or a liquidity transfer order if it is breached from above (absolute

numbers).
- **Ceiling**

An upper threshold which may trigger the sending of a notification message and/or a liquidity transfer order if it is breached from below (absolute numbers).
- **Target Amount After Breaching Floor**

Target amount to be reached if the Floor is breached
- **Target Amount After Breaching Ceiling**

Target amount to be reached if the Ceiling is breached
- **Party To Be Billed**

The Party to whom the invoice will be addressed
- **Party To Be Charged**

The Party to whom the billable item is assigned, due to a contractual agreement
- **MCA to be debited**

The Main Cash Account to be debited within the billing process
- **Ancillary System Used**

Party Identifier of the Ancillary System used for the Cash Account
- **Ancillary System Model Used**

Ancillary System Model used for the Cash Account
- **Associated Liquidity Transfer Account**

A 1 to 1 link between an MCA and a DCA for liquidity transfer orders
- **Minimum Reserve Party**

Party for which this Cash Account is included for minimum reserve calculation (applicable for RTGS DCA and sub account for AS settlement)
- **Management of Minimum Reserve**

The method by which the Minimum Reserve is managed.
Possible values are:
Direct
Pool
No
- **Default Flag**

Indicating whether the Cash Account is the default choice of the Party (RTGS, CLM)
- **Contingency Account**

The Account Number of the corresponding contingency account (in the Contingency Settlement) (must be provided for the first MCA or RTGS DCA created)

- **Account Monitoring Group Identifier**

(Multiple occurrences allowed)
The unique technical identifier of an Account Monitoring Group
- **Liquidity Transfer Group Identifier**

(Multiple occurrences allowed)
The unique technical identifier of a Liquidity Transfer Group
- **Maximum Amount for Direct Debit Orders**

The maximum amount allowed to be debited from the Cash Account based on direct debit orders per business day
- **Closing Date**

The date as of which a Cash Account is legally closed
- **Rule-based liquidity transfers for queued urgent payment/AS transfer orders**

Boolean attribute specifying whether a rule-based liquidity transfer should be triggered from the Associated LT Account when an urgent payment order or AS transfer order is queued.

- **Rule-based liquidity transfers for queued urgent payment/AS transfer/high priority payment orders**

Boolean attribute specifying whether a rule-based liquidity transfer should be triggered from the Associated LT Account when an urgent payment order, AS transfer order or high priority payment order is queued.

Transactional data:
- **Cash Balance**
Current cash balance
- **Credit Line**
Current maximum collateralised overdraft position of the Cash Balance (CLM MCA)

Note: A negative balance is only allowed for the EURO-CB Accounts, the Dedicated Transit Accounts and all T2S CB Accounts; for all other Cash

Accounts the liquidity is restricted to the balance plus credit line if available

Id	SHRD.UR.BDD.120
Name	Standing Order Liquidity Transfer Order

Description	For RTGS, an instruction template to transfer Central Bank Money from an RTGS DCA to:
	• another settlement service's Main/Dedicated Cash Account and vice versa; or
	• another RTGS DCA, sub-account or technical account.
	
	For CLM, an instruction template to transfer Central Bank Money from a MCA to:
	• a settlement service Dedicated Cash Account and vice versa; or
	• another Main Cash Account.
	Mandatory attributes:
	• **Standing Order Identifier** (KEY) (for internal use only)
	The unique technical identifier of the Standing Order
	• **Reference of Instruction**
	Reference given by the original instructor of the liquidity transfer
	• **Transfer Amount**
	Amount to be credited or debited with the liquidity transfer order
	• **Currency**
	• **Account To Be Debited**
	• **Account To Be Credited**
	• **Trigger**
	An event-based trigger that will initiate the Standing Order
	• **Valid From Date**
	Optional attributes:
	
	• **Valid To Date**
	
	• **AS Procedure**
	Standing Order link to an AS procedure initiation. Possible values:
	   - Procedure C, automated start of mandatory procedure
	   - Procedure C, manual start of optional procedure

	- Procedure D, automated start of mandatory procedure

CRDM UDFS

Chapter 1.3 Reference Data Model
Inclusion of new attributes in Cash Account and Liquidity Transfer Order object.

- Section 1.3.3.3 (Cash Account), subsection 7 (Account Threshold Configuration)

ATTRIBUTE	DESCRIPTION
...	
Associated LT Account	Linked Cash Account to be used when generating automatic liquidity transfers ~~in case floor or ceiling amount are breached~~ for queued/pending CBOs (including pending seizures of funds reservation). In addition, this cash account is used for rule-based liquidity transfers from CLM in case of queued urgent/high payment orders or queued AS transfer orders in RTGS.
Rule-based liquidity transfers for queued urgent payment orders/AS transfer orders	Boolean attribute specifying whether an automated liquidity transfer should be triggered from the Associated LT Account when an urgent payment order or AS transfer order is queued.
Rule-based liquidity transfers for queued high priority payment orders	Boolean attribute specifying whether an automated liquidity transfer should be triggered from the Associated LT Account when an urgent payment order, AS transfer order or high priority payment order is queued.

- Section 1.3.3.3 (Cash Account), subsection 5 (Liquidity Transfer Order)

ATTRIBUTE	DESCRIPTION
...	
AS Procedure	Standing Order link to an AS procedure initiation. Possible values: - Procedure C, automated start of mandatory procedure - Procedure C, manual start of optional procedure - Procedure D, automated start of mandatory procedure

Chapter 5.1 Business Rules

Inclusion of new business rules to:

- Prevent use of the new Cash Account attributes if the Associated LT Account is not defined ;
- Allow use of the new Cash Account attributes only for RTGS DCAs ;
- Prevent Cash Accounts with different/incorrect currencies under the same CB Party ;
- Prevent different Parties with the same BIC to connect to CLM and RTGS (at Party level and Party Service Link level).

DWH:

The changes in CRDM also have an impact on the DWH: additional objects have to be introduced in the data model and within the DWH UHB (chapter "DWH data objects"):

- Object "Rule-based LT for queued urgent payment/AS transfer orders" (boolean)
- Object "Rule-based LT for queued urgent payment/AS transfer/high priority payment orders" (boolean)
- Optional object "Standing Order LTO AS Procedure" with the following values and codes (in brackets):
  - Procedure C Automated (CAUT)
  - Procedure C Manual (CMAN)
  - Procedure D Automated (DAUT)

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High level description of Impact:

With this Change request changes on the following objects are introduced:
- Cash Account,
- Liquidity Transfer Order,
- Party and
- Party Service Link.

These changes are necessary for the proper setup in CRDM for CLM and RTGS and the processing in CLM and RTGS for specific parts.

Moreover, the changes in CRDM also have an impact on the DWH where additional objects have to be introduced in the data model and within the DWH UHB (chapter "DWH data objects")

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Impacts on other projects and products:
Yes : Impact on T2S

Outcome/Decisions:

EUROSYSTEM ANALYSIS – GENERAL INFORMATION						
			Process	**User Interaction**	**Business Data Definition**	**Non-functional Requirements**
CENTRAL LIQIDITY MANAGEMENT (CLM)	GENERAL	CLM Payment Order				
		CLM Liquidity Transfer Order				
		CLM Liquidity Reservation				
	CENTRAL BANK SERVICES	Modify Credit Line				
		Connected Payments				
		Overnight Deposit				
		Marginal Lending				
		Minimum Reserve Management				
		EoD General Ledger Files				
REAL-TIME GROSS SETTLEMENT (RTGS)	GENERAL	RTGS Payment Order				
		Queue Management				
		RTGS Liquidity Transfer Order				
		RTGS Liquidity Reservation				
		RTGS Services for Ancillary Systems (AS)				
	CB SER-VICES					
CO	GEN R	ESMIG				

		CRDM	X	X	X	
		Business Day				
		User Roles and Access				
		Information and Reporting				
		Data Warehouse Services			X	
	CENTRAL BANK SERVICES	Billing				
		Legal Archiving				
		Contingency Settlement				
4CB internal categories		Operational Tools				
		Automation				

Impact on major documentation		
Document	**Chapter**	**Change**
Impacted UDFS chapter	<u>CRDM UDFS</u> - Section 1.3.3.3 (Cash Account Data Model), subsections 5, 7 - Chapter 5.1 Business Rules	New and amended attribute descriptions for Cash Account and Liquidity Transfer Order New business rules as detailed above
Additional deliveries for Message Specification/ MyStandards		

UHB	<u>DWH UHB</u>	Three additional data objects to be added and specified in chapter "DWH data objects":
		- Object "Rule-based LT for queued urgent payment/AS transfer orders" (boolean)
		- Object "Rule-based LT for queued high priority payments" (boolean)
		- Optional object "Standing Order LTO AS Procedure" with the following values and codes (in brackets):
		   o Procedure C Automated (CAUT)
		   o Procedure C Manual (CMAN)
		   o Procedure D Automated (DAUT)

	CRDM UHB Cash Account New/Edit, Details screens Liquidity Transfer Order New/Edit, Details screens	Implementation of new attributes
External training materials		
Other documentations		

Links with other requests				
Links	Reference		Title	

OVERVIEW OF THE IMPACT OF THE REQUEST ON THE T2 SYSTEM AND ON THE PROJECT

Summary of functional, technical, operational, stakeholder, financial and interoperability impacts

CRDM
New attributes and validations will be implemented to cover the requirements listed above.
This CR is raised to align the scope-defining documentation to changes agreed at 4CB internal level.

DWH

The changes in CRDM also have an impact on the DWH: additional objects have to be introduced in the data model and within the DWH UHB.

Summary of dependencies

T2S-impact because of a number of CRDM changes listed below:

-        New Cash Account attributes: these will be stored as per usual in a separate sub-table and only used for T2 accounts. The impact here is non-existent for T2S users.
-        New validation to check Cash Account/System Entity currency consistency: this is a new business rule to impose the restriction of one currency per System Entity required by T2. Currently no CB has a Currency defined at System Entity level but once we configure them (and the new BR is implemented) T2S users may encounter the BR if they try to configure Cash Accounts with a different currency than their own. This is expected to be actually relevant only for the Danish CB which will have to separate their EUR DCAs into another System Entity. DKCB is already informed about this aspect and in contact with OM to plan the data migration.
-        New LTO attribute: this attribute will only be used for LTOs defined on T2 accounts, but it will be stored in the same logical table as the T2S attributes. It is not expected to create any visible effect in T2S.
-        Party –check on BIC for CLM/RTGS: users attempting to modify a Party linked to CLM/RTGS by changing the BIC into that of another Party also linked to CLM/RTGS will encounter a new business error, similar to the ones already in place for this kind of situation (it is an additional, more specific scenario identified by T2 colleagues, dealing with Parties that are linked to CLM/RTGS on CRDM side –not expected to create issues in T2S but the error should be recorded in the documentation)
-        Party Service Link: no impact as the object is not handled in T2S.

A clarification note and wording proposals for the T2S documentation will be prepared.

No ECMS and TIPS impact

Summary of project risk

None

Security analysis

No potentially adverse effect was identified during the security assessment.