

'Target Consolidation' project Information session

Impact on the banks that are not Target2 Direct participants

12th-13th-14th of November 2019

Banque Centrale du Luxembourg

The contents of this presentation reflect BCL's understanding of the Eurosystem technical documentation (the key ones being the CLM and RTGS User Detailed Functional Specifications). Its purpose is to propose the readers a path through this technical documentation, but should not be regarded as a sufficient material to prepare the implementation of Target Consolidation.

AGENDA

- 08h30 09h00 : Registration & coffee
- 09h00 09h15 : Introduction to Target Consolidation
- 09h15 10h30 : Presentation of the new T2 (CLM, RTGS and the Common Components)
- 10h30 11h00 : Coffee Break
- 11h00 12h00 : The Co-management in CLM
- 12h00 13h00 : Project milestones and the readiness framework imposed by ECB

13h00 - 14h00 : Lunch

- 14h00 15h30 : Connectivity aspects in the presence of SWIFT and SIA COLT
- 15h30 16h00 : End of the Infosession.

- 1. Introduction
- 2. The new T2 overview
- 3. The new T2 CLM (Central Liquidity Management)
- 4. The new T2 RTGS (Real Time Gross Settlement)
- 5. The new T2 the common components
- 6. The co-management in CLM
- 7. Readiness, timeline, testing and migration
- 8. The Network Service Providers

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SWIFT & SIA-COLT

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1. Introduction

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- 3. The new T2 CLM (Central Liquidity Management)
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1. Introduction VISION 2020

Target Consolidation is part of the wider Vision 2020 initiative whereby the Eurosystem initiated three distinct projects pursuing specific objectives:



The Eurosystem has launched a project to consolidate TARGET2 and T2S, in terms of both technical and functional aspects.

Objective: to replace the existing TARGET2 infrastructure with a new real-time gross settlement (RTGS) system complemented by a new Central Liquidity Management (CLM) system that optimises liquidity management across all TARGET Services.

November 2021: Launch of the new consolidated platform.



https://www.ecb.europa.eu/paym/target/consolidation/html/index.en.html

All banks will be impacted

- The current Target2 participants...
- > ... but also any other banking institution holding a current account with the BCL
- > The impacts, however, differ depending on the nature of the institution

Not limited to Luxembourg

Target Consolidation is a pan-European harmonization project. It will standardize the central banks operations across ESCB countries

1. Introduction BCL infosessions



The BCL organizes several infosession to support its large national community (130 banks):

- 19th of September 2019 1st infosession with the Target2 User Group (future CLM & RTGS participants) Call for interest for co-managers (detailed in the co-management part)
- 12th of October 2019 2nd infosession with future CLM A2A participants*
- 13th of October 2019 3rd infosession with future CLM U2A participants*
- 14th of October 2019 4th infosession with future CLM co-managed participants*

*As per BCL's May 2019 survey about defining a potential configuration to access the future TARGET Services.

We will stay in touch for all the project milestones, including testing, training and migration until November 2021.

1. Introduction

2. The new T2 - overview

- 3. The new T2 CLM (Central Liquidity Management)
- 4. The new T2 RTGS (Real Time Gross Settlement)
- 5. The new T2 the common components
- 6. The co-management in CLM
- 7. Readiness, timeline, testing and migration
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2. The new T2 - OVERVIEW 2.1 What changes for Target2 Direct participants?

Most of the existing business functions will be continued but will be supported by a new infrastructure, requiring significant adaptations to the existing operating models

The legal context of the future T2 will rely on the existing legal framework (with reformatting of the underlying support documentation)



- Access to Target2 via SWIFT \geq Access to T2 via SWIFT or SIA COLT ISO15022 \geq ISO20022 1 core system (SSP) \geq 1 Target2 account 2 T2 accounts : CLM Main Cash Account 1 GUI (ICM) ------ Multiple Graphical User Interfaces \geq Central Bank Operations (e.g. minimum ----- > Central Bank Operations in CLM
- \geq reserves, standing facilities) in Target2 and/or in local central banks systems



- 2 core systems (CLM,RTGS) + common components
 - (MCA) & RTGS Dedicated Cash Account (DCA)

2. The new T2 - OVERVIEW2.2 What changes for NON & INDIRECT Target2 participants?

The currently 'Non Target2' banks will start using a subset of the functionalities of the new T2.

They will become 'T2 CLM participants' and shall adhere to the new T2 legal framework.



- Access to Target2 via SWIFT
- ➢ ISO15022 ---
- 1 core system (SSP)
- 1 Target2 account *
- ➤ 1 GUI (ICM)
- Central Bank Operations (e.g. minimum reserves, standing facilities) in Target2 and/or in local central banks systems



- Access to T2 via SWIFT or SIA COLT ...or via a co-manager
- ➢ ISO20022
- 1 new 2 core systems (CLM, RTGS) + common components
- 1 new
 2 T2 accounts : CLM Main Cash Account
 RTGS Dedicated Cash Account
- Multiple Graphical User Interfaces
- Central Bank Operations in CLM

2. The new T2 - OVERVIEW2.3 The TARGET SERVICES at a glance



2. The new T2 - OVERVIEW2.4 The new T2 components specialisation

Target Consolidation categorizes the participants activities and assigns them to an ad-hoc system or component:

 ✓ Manage Liquidity ✓ Central Banks Operations (CBO) CLM 	CORE SYSTEMS
 ✓ Settle Target payments	CORE STSTEIVIS
 ✓ Exchange instructions ✓ Open a GUI]
✓ Manage static data and users CRDM	COMMON
✓ Access historic data DWH & LEA	COMMON COMPONENTS
✓ Invoice Target Services BILL	
✓ Run business day BDM	J

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All banks will hold a Main Cash Account (MCA) on CLM to support their 'central bank operations'.

The MCA is also used to fund the other types of Target accounts (*i.e. liquidity management*).



<u>Banks eligible to monetary policy operations</u> will also access a Marginal Lending Account (MLA) and an Overnight Deposit Account (ODA) on CLM (opened by the Central Bank in the name of the participant)

<u>The current Target2 direct participants</u> will additionally hold a <u>Dedicated Cash Account</u> (DCA) on the new RTGS

	MCA	RTGS DCA
Holder	- All Luxembourg Banking institutions	- Entities with a 'Target2 Direct Participants' status
Number	- At least one MCA is mandatory	- At least one DCA if 'Target2 Direct Participants'
Usage	 Central Banks Operations (CBO) Liquidity transfers to/from DCAs <u>No</u> payments between participants (however liquidity transfers between MCAs possible – see LT groups) 	 Settlement of real-time payments Ancillary Systems activities
Credit line	 Assigned only to one MCA (even if the Party has several MCAs) 	- N/A
Balances	- Goes negative in case of intraday credit	Cannot be negativeRemain on the DCAs at change of day
Identification		ed by: the respective settlement service) que across all settlement services)

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3. The new T2 - CLM3.2 CLM and the Central Bank Operations (CBOs)



3. The new T2 - CLM3.2.1 CBOs - Mandatory Minimum Reserves

TODAY: BCL Internal System

Minimum reserve constitution

Balances transferred from current account (041) to reserve account (030):

- Automatically at EOD
- On demand before or after EOD

Interest payment

Debit/credit on current account (041)

Query fulfillment of reserve

Periodically made by BCL upon request

Minimum reserve constitution

No balances transfer anymore, aggregation of all End of Day balances (based on CRDM set up):

NOV 2021: CLM

• MCA (and RTGS DCA, T2S DCA, TIPS DCA if any)

Interest payment

• Debit /credit on MCA (system triggered payment order, confirmed via camt.054)

Query fulfillment of reserve

• Self monitoring in CLM ('*Minimum reserve fulfilment'* query in A2A and U2A)

3. The new T2 - CLM3.2.2 CBOs - Overnight Deposit (OD)

TODAY: BCL Internal System

OD Constitution

Upon c/p request (phone call / MT320 to BCL):

 BCL sets up deposit contract, liquidity transferred from current account (041) to a technical deposit account

OD Reimbursement

 Deposited balances return on current account (041)

Interest calculation

• Debit/credit on current account (041)

OD Constitution

Initiated by c/p directly in CLM:

Liquidity transfer order (LTO) (camt.050)
 Flow: from MCA to ODA*

NOV 2021: CLM

OD Reimbursement

- Automatic flow: from ODA to MCA (system initiated LTO, confirmed via camt.054)
 Interest calculation
- Debit/credit on MCA (system triggered payment order, confirmed via camt.054)

3. The new T2 - CLM 3.2.3 CBOs - Marginal Lending on request (MLOR)

TODAY: BCL Internal System

MLOR Opening

- C/p requests MLOR* to BCL (via MT202)
- BCL books ML in its systems: from current account (041) to reserve account (030) - if enough collateral

MLOR Reimbursement

 Automatic reverse transaction: from reserve account (030) to current account (041)

Interest payment

• Debit on current account (041)

*MLOR makes sense in the context of minimum reserve

MLOR Opening

C/p requests MLOR to BCL (communication channel to be confirmed)

NOV 2021: CLM

• BCL books ML in CLM (Flow: from MLA** to MCA)

MLOR Reimbursement

 Automatic flow: from MCA to MLA** (system initiated LTO, confirmed via camt.054)

Interest payment

- Debit on MCA (system initiated payment order, confirmed via camt.054)
- ** Marginal Lending Account

3. The new T2 - CLM3.2.4 CBOs - Automatic Marginal Lending (AML)

TODAY: BCL Internal System

AML Opening

- Negative balances on current account (041)
 i.e. intraday credit, are accepted overnight*
 - if enough collateral

AML Reimbursement

 AML is transformed again in intraday credit on current account (041)

Interest payment

• Debit on current account (041)

*before EOD the negative balance constitutes intraday credit

AML Opening

If the sum of all Target accounts balances (*if party* holds several Target accounts) is negative at EOD,
 CLM automatically creates a payment order
 (Flow: from MLA to MCA)

NOV 2021: CLM

AML Reimbursement

- Automatic flow: from MCA to MLA** (system initiated payment order, confirmed via camt.054)
 <u>Interest payment</u>
- Debit on MCA (system initiated payment order, confirmed via camt.054)
- ** Marginal Lending Account

3. The new T2 - CLM3.2.5 CBOs - other CBOs

TODAY: BCL Internal System

Credit line

Provided on the current account (041)

Open Market Operations

- Initiated in BCL internal system
- Settlement of flows in current account (041)

Cash withdrawals and lodgements

• Settlement of flows current account (041)

Billing

• Debit of BCL invoices on current account (041)

Credit line

• Provided on the MCA

Open Market Operations

• Initiated in BCL internal system

NOV 2021: CLM

• Settlement of flows in MCA

Cash withdrawals and lodgements

• Settlement of flows in MCA

Billing

• Debit of BCL invoices on MCA (pacs.010)

3. The new T2 - CLM3.3 CLM Liquidity management functions

Liquidity management tools

1. Liquidity Transfer

2. Liquidity Transfer Group

3. Cash Rebalancing

4. Liquidity Reservation

Liquidity monitoring tools

1. Graphical User Interface

2. Alerts and Notifications

3. Reports and Queries

4. Account Monitoring Group

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3. The new T2 - CLM3.3.1 Liquidity management tools

1 - Liquidity transfer

- Two generic categories:
 - ✓ Inter-service (CLM <> RTGS, CLM <> T2S, CLM <> TIPS).
 - ✓ Intra-service (CLM<> CLM or RTGS <> RTGS, if liquidity transfer group exists)
- Four ways to generate a liquidity transfer order:
 - ✓ Immediate Liquidity Transfer: a participant sends a liquidity transfer order in A2A (ISO20022 message) or U2A (manual booking in the CLM GUI) mode
 - ✓ Standing Order: a participant can configure a recurrent order to transfer a defined amount at precise business day events
 - Rule Based Liquidity Transfer: a participant can define a floor amount on its MCA and set up CLM to automatically pull liquidity from a RTGS DCA if floor is breached*.
 Similarly, he can configure a ceiling amount that would push liquidity to a RTGS DCA**
 - ✓ Automatic Liquidity Transfer for CBOs: by default (no participant intervention of any sort), CLM automatically pulls liquidity from a RTGS DCA*** when a central bank operation is pending due to lack of liquidity on the MCA.

* & *** Only if MCA & DCA belong to the same party, hence N/A for today's audience which has <u>no</u> RTGS DCA. ** DCA can belong to another entity, so relevant for today's audience.

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2 - Liquidity Transfer Group

Participants <u>cannot</u> instruct CLM intra service liquidity transfers (i.e. MCA to MCA) <u>unless</u> the MCAs belong to the same Liquidity Transfer Group.

The configuration of a liquidity transfer group is:

- optional
- made by Central Banks upon request
- possible on a cross border basis

3 - Cash Rebalancing

Participants can define in CRDM floor and ceiling amounts.

Two system behaviors can be defined:

- Breach notification
- Automatic inter-service liquidity transfer (as per previous slide, 'rule based liquidity transfer')

4 - Liquidity reservation

Participants can reserve liquidity on the MCA for central bank operations.

Reservations can be instructed:

- In A2A (ISO20022 message) or U2A (manual booking) mode
- With immediate effect, by sending a current reservation order,
- Or configured as a Standing Order Reservation (set up in CRDM), valid at start of next business day.

3. The new T2 - CLM3.3.2 Liquidity monitoring tools

1 - Graphical User Interface (GUI)

A GUI allows participants to access the Target balances information in U2A mode:

- In CLM GUI: participants can see information on MCAs as well as on the DCAs linked to its Party
- The RTGS/TIPS/T2S GUIs show information on the participant's accounts in this service only.

2 - Alerts and Notifications

Participants can subscribe to alerts and notifications

- Either displayed on a GUI or sent in A2A mode
- Event based (e.g. floor / ceiling) or at a specific schedule (Start of Day, End of Day...)

3 - Reports and Queries

• A report is automatically generated at a pre-defined time, upon subscription by the participant. Participants can subscribe to the End of Day statement of account (camt.053)

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A query is a specific demand made by the participant in A2A mode or in the GUI.

3. The new T2 - CLM3.3.2 Liquidity monitoring tools

4 - Account Monitoring Group

Participants may configure an *Account Monitoring Group* to monitor the liquidity outstanding on a set of grouped accounts, which can be:

- its MCAs and RTGS/TIPS/T2S DCAs
- the MCAs/ DCAs of other Parties (if access rights granted)
- accounts belonging to multiple central banks

This is purely for monitoring purposes (no processing of payments or liquidity transfers)



3. The new T2 - CLM3.4 Cash flows in CLM

CLM supports three types of cash transfers orders



Cash transfer order	Message Identifier	Message Name
Credit transfer order for an interbank payment	pacs.009	FinancialInstitutionCreditTransfer
Direct debit order for an interbank payment	pacs.010	FinancialInstitutionDirectDebit
Liquidity transfer order	camt.050	LiquidityCreditTransfer

3. The new T2 - CLM3.4.1 Participants liquidity transfer order

Participants can instruct intra-service liquidity transfers between two CLM MCAs in A2A (ISO20022 message) or U2A (manual input in CLM GUI) mode.

<u>Preliminary condition</u>: the two MCAs must be part of the same liquidity transfer group.

Exception: if the creditor/beneficiary of the LTO is a Central Bank account, there is no need for a liquidity transfer group.

<u>Illustration:</u> Liquidity transfer order initiated via camt.050



3. The new T2 - CLM 3.4.1 Participants liquidity transfer order

Participants can instruct inter-service liquidity transfers between a CLM MCA and a RTGS/T2S/TIPS DCA in A2A (ISO20022 message) or U2A (manual input in CLM GUI) mode

The two accounts do not need to be related (i.e. no need to configure a liquidity transfer group)

Illustration: Liquidity transfer order initiated via camt.050



Booking transaction

3. The new T2 - CLM3.4.1 Participants liquidity transfer order

The participants A2A liquidity transfers orders are validated applying the following logic:



3. The new T2 - CLM 3.4.2 Central Bank payment orders

Central Banks can send credit and debit transfers orders to CLM.

! Participants do not have the possibility to use these messages !



Illustration Direct debit order: pacs.010

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3. The new T2 - CLM3.4.3 System initiated transfer orders

In addition to the transfer orders booked by the participants or the central banks,

CLM also automatically triggers cash transfers orders in case of:

- Overnight Deposit reimbursement (liquidity transfer order from ODA to MCA)
- Marginal Lending On Request reimbursement (liquidity transfer order from MCA to MLA)
- Automated Marginal Lending opening (credit transfer order from MLA to MCA)
- > Automated Marginal Lending reimbursement (debit transfer order from MCA to MLA)
- Interests related to Minimum Reserves, Overnight Deposits, Marginal Lending or other purposes (debit transfer order from MCA to CB account if interests due by the participant, credit transfer order from CB account to MCA if remuneration owed to participant)

For all of the above, the participant does not receive any copy of the cash transfer order, but may subscribe to camt.054 messages (debit/credit notification)

3. The new T2 - CLM3.5 GUI illustration - browse minimum reserves

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3. The new T2 - CLM 3.5 GUI illustration - browse standing facilities

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- Marginal Lending Account			
Account Number Account Type Current Balance			
MARGLENDABC123 Marginal Lending Account 0.00 EUR			
ZYXZDEFFPT1 MCA 250,000.00 EUR New Liquidity Transfer from Marginal Lending Account			
- Overnight Deposit Account New Liquidity Transfer to Marginal Lending Account			
Account Number Account Type Current Balance			
OVERNIGHTDEPABC123 Overnight Deposit Account 0.00 EUR			
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Note: availability of this screen to CLM participants needs to be confirmed Non details may st	<i>(</i> 0 <i>,</i>		BANQUE CENTRALE DU LUXEM
3. The new T2 - CLM3.5 GUI illustration - browse tasks queue

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3. The new T2 - CLM3.5 GUI illustration - browse details of a task queue

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- 8. The Network Service Providers

ESMIG (ISO20022 messages and GUIs access) New GUI					
- 1	$\overline{\nabla}$	- ↓-			
CLM	RTGS	T2S	TIPS		
New MCA	RTGS DCA	T2S DCA	TIPS DCA		
Provision DCAs (RTGS-TIPS-T2S)	Large Value Payments	D∨P Settlement	Instant Payments		
Operations with BCL		Auto - collateralisation			
Minimum reserves					
Marginal Lending					
Overnight deposits					
Specific static data	Specific static data	Specific static data	Specific static data		
New GUI	New GUI	Existing GUI	Existing GUI		
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Common Reference Data Management (CRDM) New GUI					
	Datawarehouse (DWH	New GUI			
Bi	ling (BILL)/ Legal Arc	hiving (LEA) (CBs on	ly)		
Business Day Management (BDM)					

4. The new T2 – RTGS (Real Time Gross Settlement)4.1 TARGET2 today

- ✓ TARGET2 launched in November 2007 (predecessor was TARGET).
- TARGET2: Real-Time Gross Settlement System (RTGS) owned and operated by the Eurosystem.
- Payment orders processed via single shared platform (SSP), settled with immediate finality.
- Connection in application-to application (A2A) mode (*e.g. via back office system*) or user-toapplication (U2A) mode (*monitoring via the ICM graphical user interface GUI*).
- Payment orders in EUR by central banks and commercial banks. Settled in central bank money (accounts held with a central bank). Payment processing involves: the Payment Module (PM), Information & Control Module (ICM) and Enhanced Contingency Solution (ECONS).
- One system used for several purposes: Interbank and commercial transactions between market participants, monetary policy operations. Central bank operations. Settlement operations of ancillary systems.

4. The new T2 – RTGS (Real Time Gross Settlement)4.2 TARGET2 today vs. T2-RTGS Component tomorrow





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Participation	Direct participant Indirect participant Multi-addressee access Addressable BIC	Direct participant Indirect participant Multi-addressee access Addressable BIC
Access	 -Application letter/test procedure/registration forms with CB -SWIFT e-ordering process to register -U2A or A2A mode; U2A mode: monitoring in ICM but entering payments only in contingency situation * 	 -Application letter/test procedure/registration forms with CB -e-ordering via NSP (SWIFT or SIA-Colt) -U2A or A2A mode; U2A mode: monitoring and entering payments in RTGS-GUI will be possible.
Business day / settlement period RTGS *high level overview, not considering start-of-day procedure /AS night time settlement / maintenance window	07:00h – 18:00h day trade phase (payment processing). No modification window. Cut-off interbank payments 18:00h Cut-off customer payments 17:00h Target2 calendar includes certain holidays Warehoused payment up to 5 bd in advance.	New Modification window 02:30h-03:00h. Settlement window starts at 03:00h, still closes at 18:00h Cut-off interbank payments remains 18:00h Cut-off customer payments remains 17:00h RTGS will follow same holiday schedule as today Warehoused payments up to 10 bd in advance.
Payments	One PM (TARGET2) account for - liquidity management - payments (interbank, customer, direct debit) - central bank operations T2S accounts linked to PM account(s)	Higher separation/segregation of activities: CLM - MCA for liquidity management and central bank operations RTGS-DCA(s) for payments DCA(s) also available in other Target services

* In some markets, internet based participants do not face this limitation.

However, internet based participation is not deployed in Luxembourg and will no longer exist with T2 RTGS

4. The new T2 – RTGS (Real Time Gross Settlement)4.2 TARGET2 today vs. T2-RTGS Component tomorrow





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Liquidity transfers	 Immediate (example: Target2 to T2S) Standing order (fixed amount for liquidity transfer Target2 to T2S during night time settlement) 	 Immediate Standing order Rule based (specific condition set-up for queued urgent payment orders, AS transfer, floor/ceiling to push/pull liquidity to/from the RTGS DCA: RTGS DCA is linked to the CLM-MCA).
Relevant message types	- FIN MT 202 - FIN MT 103 - FIN MT 204 ISO 15022.	 pacs. 009 (FinancialInstitutionCreditTransfer) pacs. 008 (CustomerCreditTransfer) pacs. 010 (FinancialInstitutionDirectDebit) ISO 20022.
Participation and orders direct /indirect participant *excl. addressable BIC, multi-addressee access and ancillary system in this view	 Direct participant: MT 202, MT 103, MT 204 Indirect participant: MT 202, MT 103, MT 204 via the direct participant Central bank all above MT "act on behalf" of a direct participant (contingency situation). 	 Direct participant: pacs.009, pacs.008, pacs.010 Indirect participant: pacs.009, pacs.008, pacs.010 via the direct participant Central bank all above pacs. "act on behalf" of a direct participant (contingency situation).
Payment queue management / modifications	In general: FiFo principle. Payments can be classified as normal/urgent/ highly urgent. Possibility to modify priority class for unsettled payments. Possibility to set execution time/modify for unsettled payments.	In general: FiFo principle. Payments can be classified as normal/high/urgent. Possibility to modify priority class for unsettled payments. Possibility to set execution time/modify for unsettled payments.

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5. The new T2 - the common components

- 6. The co-management in CLM
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ESMIG (ISO20022 messages and GUIs access) New GUI						
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CLM	RTGS	T2S	TIPS			
New MCA	RTGS DCA	T2S DCA	TIPS DCA			
Provision DCAs (RTGS-TIPS-T2S)	Large Value Payments	DVP Settlement	Instant Payments			
Operations with BCL		Auto - collateralisation				
Minimum reserves						
Marginal Lending						
Overnight deposits						
Specific static data	Specific static data	Specific static data	Specific static data			
New GUI	New GUI	Existing GUI	Existing GUI			
C	Common Reference Data Management (CRDM) New GUI					
	Datawarehouse (DWH) New GUI				
Bi	lling (BILL)/ Legal Arc	hiving (LEA) (CBs on	ly)			
Busine	ess Day Management	(BDM)				

The 'Common Reference Data Management' component is used to configure, maintain and query a series of static data.

CRDM supports data made available to several Target Services (T2,T2S, TIPS), preventing redundant implementation of data management functionality in multiple services.

CRDM automatically propagates to each Target Service the data relevant for its specific needs.

CRDM can be operated in both:

- A2A mode, by sending/receiving ISO20022 messages,
- U2A mode, by using a specific CRDM Graphical User Interface,

CRDM is a pre-requisite for all participants:

prior to taking any action in CLM, participants shall be correctly configured in CRDM.

5. The new T2 – COMMON COMPONENTS5.1 CRDM – access rights management

The participants, and their users, accesses will be defined in CRDM in three steps:

✓ 1st Account holder signs the T2 GUIDELINE and send REGISTRATION FORMS to Central Bank

Central Bank sets up and maintain static data in the new T2 for its national community.

✓ 2nd Central Bank configures Static Data:

Party (i.e. legal entity interacting with a Target Service) – BIC mandatory Accounts (unique across all Target Services)

Administrators Users (i.e. users acting as administrator within each participant)



3rd Bank Administrators configures Static Data

Certificates (delivered by the NSP)

Users

Link users and certificates

Grants appropriate privileges to the users

5. The new T2 – COMMON COMPONENTS 5.1 CRDM – access rights management

The **data scope** of an individual user results from the hierarchical structure of T2 actors:

 $1^{\mbox{st}}$ - The T2 Service operator (4CBs) can access the widest possible data scope

2nd - A specific Central Bank's data scope is limited to its community

3rd - A Party's data scope is limited to its business under a specific Central Bank

4th - An individual user's data scope is limited to its Party's data scope



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About an individual user data scope:

- ✓ Each user is assigned one or several **predefined roles** for each specific service or component.
- \checkmark A role is a set of privileges that defines which business functions are assigned to a user
- ✓ Each privilege defines the type of action authorized for a business function: "read-only" or "write".
- ✓ In A2A mode, business functions apply the two-eyes principle. In U2A, it is either two-eyes or foureyes principle.

5. The new T2 – COMMON COMPONENTS5.2 Datawarehouse, Billing and Legal Archiving

Datawarehouse (DWH)

- ✓ The DWH component allows participants to retrieve 'historical information'
- Transactions having reached a final state are stored in DWH where they are accessible as from next business day.

Legal Archiving (LEA)

- ✓ Stores information subject to legal archiving requirements (incoming/outgoing business transactions from/to participants)
- ✓ 10 years retention period
- ✓ Only available to Central Banks

Billing (BILL)

- ✓ Calculates fees incurred by the utilization of the Target Services
- ✓ Prepares invoices templates
- ✓ Generates payments instructions
- Only available to Central Banks but will <u>impact participants</u>: new invoices layout, new payment instructions (pacs.010 on MCA)

5. The new T2 – COMMON COMPONENTS5.3 Business day management

Technical component setting the pace of the Target Services processes (CLM, RTGS, T2S).

	CLM	RTGS	CRDM/DWH	
Change of business day	18:45			
Start of Day procedures	18:45-19:00	18:45-19:30	18:45-19:00	
Availability for users until the maintenance window	19:00-00:30 (no LTOs allowed between 19:00-19:30)	19:30-00:30 (only for settlement of AS transactions and LTOs)	19:00-00:30	
Maintenance window ²¹		00:30-02:30		
Availability for users after the maintenance window	02:30-18:00	02:30-03:00 (only for maintenance of warehoused payments) 03:00-18:00 (continuous	02:30-18:00	
Cut-off for Customer Payments	NA	processing of payment orders, AS transactions and LTOs) 17:00	NA	
Cut-off for Interbank Payments /	18:00	18:00	NA	
CB Operations End of Day procedures	18:00-18:45			
Cut-off for Standing Facilities	18:15 (15 min after the start of End of Day procedures; + 15 min on the last business day of the reserve maintenance period)	NA	NA	

Visible impact for the participants: revised opening hours

BCL support hours unchanged: from 06:30a.m. to 07:00 pm

5. The new T2 – COMMON COMPONENTS5.4 ESMIG - the Eurosystem Single Market Gateway

In its earlier communications, the BCL envisaged four options to operate a MCA :



- A. The MCA holder manages its account via ISO20022 messages
- B. The MCA holder manages its account manually in the CLM GUI (graphical user interface)
- C. The MCA holder delegates the management of its account to a « co-manager »
- D. The MCA holder delegates the management of its account to the BCL (<u>contingency option only, this</u> <u>cannot be the participant's standard strategy</u>)

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Securing a connection to ESMIG is a pre-requisite for configurations A & B It requires to contract with a Network Service Provider (NSP): SWIFT or SIA COLT

5. The new T2 – COMMON COMPONENTS 5.4 ESMIG - guidelines

- Unique access point for all Target Services (T2, TIPS but also ECMS & T2S later on)
- Connection exclusively enabled by Network Services Providers (SWIFT and SIA COLT)
- Supports both <u>A2A & U2A*</u> access (i.e. NSP to be appointed for both A and B configurations)
- For A2A usage, exclusively accepts <u>ISO20022 messages (from 'Y copy' to 'V shape' model</u>)
- Performs <u>users authentication</u>

Securing a connection to ESMIG is a mandatory pre-requisite to access the new T2 Any entity requiring an access to T2 shall consider the following steps:

- Contact SWIFT and/or SIA COLT
- For A2A usage, prepare ISO20022 conversion:
 - i- check T2 MyStandards,
 - ii- promote changes in your infrastructure,
 - iii- test your new messages via the MyStandards Readiness tool **

* Application To Application = STP mode vs. User to Application = usage of the Graphical User Interface

** https://www.ecb.europa.eu/paym/pdf/consultations/2019-07-05_MyStandards_Readiness_Portals.pdf

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General Principles

- ✓ The co-management is an optional feature in CLM
- ✓ Allows to fully or partially delegate your MCA management to a co-manager
- ✓ A co-managee does not necessary need an access to ESMIG
- ✓ Co-Manager must be a MCA Holder (having access to ESMIG)
- Cross-border set-up is possible (i.e. the co-manager and the co-managed actors are in different countries, under different central banks)
- ✓ The privileges/roles (U2A & A2A) assigned to the user of the CLM Account Holder are also applicable for the co-managed account without limitations (e.g. A co-manager can query its own account balance, and the balance of the co-managed account.)
- ✓ A regular participant with an ESMIG access could also appoint a co-manager and become co-managed. Both would have access to the MCA, and the comanaged participant could delegate all or part of the accounts activities to the co-manager (no data scope restrictions are possible)



The co-management functionality will be available for all CLM account holders: any CLM account can be co-managed and any CLM account holder can become a comanager (subject to both parties agreeing to this).

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6. The co-management6.1 What is co-management ? Access rights

The **data scope** of an individual user results from the hierarchical structure of T2 actors:

 $1^{\mbox{st}}$ - The T2 Service operator (4CBs) can access the widest possible data scope

2nd - A specific Central Bank's data scope is limited to its community

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Co-management data scope

Change in the pyramidal / hierarchical concept of the data scope propagation



Co-manager

6. The co-management6.2 Who is concerned? Co-manager & co-managees



6. The co-management6.2 Who is concerned? Results of the survey



At least 42 Banks envisaged to appoint a co-manager (as per our survey in May 2019) You will be asked to confirm your choice after the infosession (New survey in December 2019)

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6. The co-management6.2 Who is concerned ? Co-managees lighter workloads

Which side will you choose ?



6. The co-management6.2 Who is concerned ? Co-managers

2 reasons to become a co-manager:

- [1] Become a co-manager for «intra-group» purposes only, to co-manage branches or group entities (can be performed in U2A or A2A, i.e co-manager has a configuration A or B)
- [2] Develop a co-management offer for any third party (in Luxembourg / in Europe)
 (should be performed in A2A; i.e co-manager has a configuration A)

In September 2019, the BCL encouraged the Target2 direct participants to develop a Co-management offer towards any third party, in order to support the national banking community.

2 Banks indicated their interest and commit to propose co-management services to MCA holders:





Entities deciding to opt for configuration C can be co-managed by:

- [1] a group entity (being a MCA holder and proposing this service)
- [2] an external co-manager proposing such services, e.g. BCEE or BIL

6. The co-management6.2 BIL and BCEE contacts

Target2 Consolidation - MCA Co-Management Contacts







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Yves BERNARD Senior Relationship Manager (+352) 4015-4293 <u>y.bernard@bcee.lu</u>



Emir ALICKOVIC Relationship Manager (+352) 4015-4294 e.alickovic@bcee.lu



6. The co-management

6.3 How does it work ? Minimum set of co-management services

Activity type	Detailed Activity	Purpose	
Configure co-managee	Configure co-managee's attributes in CRDM	Implement any static data needed to operate the co-management service	
Inform co-managee	Provide MCA end of day reporting	Co-manager informs the co-managed entity about the MCA movements and holdings. Co-managee takes appropriate action (funding / de-funding request, OD request,)	
	Report on minimum reserves fulfillment	Co-manager informs the co-managed entity about its current (non) fulfillment of minimum reserves obligation. Co-managee takes appropriate action (MCA funding, initiate MLOR)	
	Report on overnight deposits (OD)	Co-manager informs the co-manage about the good execution of if its OD request	
Instruct Liquidity Transfers on behalf of co-	LT from co-managed MCA to third party MCA/DCA	Co-manager executes an MCA de-funding order (for any underlying motivation proper to the co-managee)	
managee	LT from the co-managed MCA to the co-managed overnight deposit account (ODA)	Co-manager executes an OD constitution order	
	LT from the co-managed ODA to the co-managed MCA	Co-manager executes an OD reversal order	
	LT from the co-managed MCA to BCL MCA	Co-manager executes the 'cash' leg of a bank notes withdrawal order	

A co-management offer may go beyond the sole mandatory aspects.

The above categorisation results from BCL's understanding of the 'Co-management' concepts expressed in the Target Consolidation UDFS.

It is not BCL's intention to limit the activities of the entities acting as 'co-manager'.

The 'to-be' co-managers are free to decide whether they will offer or not:

- cash correspondent activities to credit a MCA for instance
- any other related activity stemming from existing contracts between the 'to-be' comanager and its clients
- any other activity stemming from a new service offer which is not directly in relation with the above tasks but that could improve their efficiency

6. The co-management6.4 How does it work ? Configuration

The configuration of a 'co-management' relationship is made:

By the co-managee, which (non exhaustive list):

- Fills in MCA related registration forms with the BCL indicating his co-manager
- Signs the T2 Terms and conditions
- Signs a bilateral agreement with the Co-manager

By the Central Bank, which:

- Creates the co-managed bank (party and accounts) in CRDM
- At the party level of the co-managed entity, references the Party Technical Address (PTA) of the co-manager
- May create a liquidity transfer group (LTG) between the co-manager MCA and the comanaged MCA, <u>only if the co-manager offers Cash Correspondent Services to the co-</u> managed entity

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By the co-manager, which can can set up in CRDM (non exhaustive list):

- Message subscription
- Report configuration
- Standing Order Liquidity Transfer Order
- 61 Standing Orders for Reservation

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7. Readiness, timeline, testing and migration7.1 Migration Strategy

TARGET Consolidation will be implemented in a 'big bang' mode in November 2021.

- From one day to another, the existing infrastructure will be replaced with a new one.
- The current systems will no longer be maintained after the Go-live. There will be no grandfathering period and no coexistence of the two infrastructures.
- Unprepared participants will lose their access to the Target2 services. They might also no longer be able to fulfill their mandatory minimum reserves obligations.

The banking community readiness will therefore be a key factor for a successful transition.

With this objective in view, the Eurosystem has designed a readiness framework, whereby the participants will be invited to report periodically their progresses for a series of **key milestones**



Project Set-up





✓ Participants nominate a project manager and,

✓ set-up the project (allocated resources, required budget and started the impact analysis).

Impact assessment

31 March 2019 - 30 September 2019 (6 months)



 ✓ Participants perform the detailed business and technical impact assessment to adapt their IT systems and processes to the changing services of T2. This includes the impact assessment on how to connect their IT systems to T2.
 ✓ Participants analyse the UDFS 2.0 (CLM + RTGS)



Drafting of your internal URD & UDFS

30 September 2019 - 31 March 2020 (6 months)



✓ Participants have started the drafting of their internal *applications* documentation (e.g. business requirements and functional specifications for key functionalities).

Software development

31 March 2020 - 30 October 2020 (7 months)



✓ Participants have started their internal developments to adapt their IT systems and processes to T2.

 \checkmark This milestone encompasses software development and also:

- ✓ (re) mapping of messages
- \checkmark (re) configuration of existing tools
- ✓ Design of your new T2 operating model

NSP selection & contracting

15 July 2019 - 31 July 2020 (1 year)



- Participants have developped the selection criteria for the network service providers (e.g. decision on direct or indirect connection, value added services expected from network service providers).
 [15/07/2019]
- ✓ Participants have completed the new connectivity design strategy (e.g. on U2A/A2A) and planning.
 [31/12/2019] − BCL will send you again the "configuration" questionnaire.
- ✓ Participants have selected their network service provider and completed the preparation for the contract signature. [31/03/2020]
- ✓ Participants have procured and signed a contract with their selected network service provider.
 [31/07/2020]





Internal Testing

30 June 2020 - 31 December 2020 (6 months)



✓ Participants have completed their internal testing of key functionalities to enable the User testing and migration.

✓ Validation of internal developments.

✓ Validation of new messages (ISO20022)

✓ Participant can use the SWIFT Readiness Portal (provided free of charge) to validate the format of the new ISO 20022 messages they will use.

✓ Participant can use other Testing platforms proposed by NSPs (may include additional fees).

https://www.swift.com/our-solutions/compliance-and-shared-

services/mystandards/mystandards-readiness-portal_testing-made-simple/for-securities

MyStandards Readiness Portal

The Readiness Portal provides capabilities for autonomous testing the **compliance of messages** with the specifications provided in the User Detailed Functional Specifications (UDFS) and SWIFT MyStandards, while the **progress and results of the tests can be fully monitored**.

For each of the SWIFT MyStandards subgroups RTGS and CLM a corresponding portal has been set up, which includes respectively the CRDM messages.

As it was meanwhile agreed to extract CRDM messages into a separate subgroup for messages related to common components (CoCo) the respective messages have also to be transferred in a segregated Portal. This Activity will be carried out before Mid September.

Connectivity Tests



User Testing on T2 Test



31 December 2020 - 28 February 2021 (2 months)

- ✓ Participants have completed the connectivity testing on the testing environment and are ready to start the user testing. The ECB will publish a connectivity guide in Q4 2020 to support participants. Connectivity tests consist in:
 - ✓ establishing the A2A connectivity between the Party's systems and ESMIG via NSP;
 - \checkmark ability to log on to ESMIG landing page (U2A)

1 March 2021 - 30 September 2021 (7 months)

✓ Participants have completed the user testing:

- \checkmark Fill test registration forms to be created in UT
- ✓ Certification tests required by the Eurosystem.
- Functional tests verification of correct end-to-end interaction; includes interoperability, community and business day tests
- ✓ Migration tests (migration week end dress rehearsals) planned by the ECB to prepare to the migration [start at least 6 months before go-live in UT]
- \checkmark Operational tests verification of the operational procedures
- ✓ Participants are ready to start the migration activities on the production environment.

Legal adaptation Completed

By 30 September 2021



Operational Procedures



✓ Participants have completed contractual and legal adaptations (e.g. Fill in registration form, adhere to T2 Terms and conditions, co-management agreements...)

✓ Participants have completed the operational procedure adaptations.

- ✓ The Eurosystem will draft an infoguide and a reference data guide for the new T2. Participants will then adapt their internal procedures based on the ECB documentation and based on their internal requirements.
- ✓ Participants have completed internal training for the testing and operational activities.
 - ✓ The BCL follow the "train the trainer" approach. Participants will be invited to attend BCL's training (limited attendance) and then train the rest of their staff internally. BCL's trainings will take place before the start of UT (01/03/2021).



Migration Activities

By 5 November 2021



✓ Participants have completed the pre-migration activities, e.g. setup reference data (e.g. users, access rights, etc.) on the production environment according to the migration plan (playbook), and are ready for the go-live. Participants prepare their Liquidity transfers needed for the first business day after the migration (migration activities).

Go-live

22 November 2021

✓ Go-live of T2 service (first business day)

7. Readiness, timeline, testing and migration 7.2 OVERALL KEY MILESTONES – TABLE VIEW

Project Setup	PSE	T2-T2S Consolidation project set-up	Participants nominate a project manager and set-up the project (allocated resources, required budget and started the impact analysis).	31 December 2018
	IAD1	Impact assessment is started	Participants start with the detailed business and technical impact assessment to adapt their IT systems and processes to the changing services of T2. This includes the impact assessment on how to connect their IT systems to T2.	31 March 2019
	IAD2	Impact assessment is completed		30 September 2019
	IAD3	Drafting of internal applications documentation is started	Participants have started the drafting of their internal applications documentation (e.g. business requirements and functional specifications for key functionalities).	30 September 2019
Internal Adaptations	IAD4	Drafting of internal applications documentation is completed	Participants have finalised the drafting of their internal applications documentation (e.g. business requirements and functional specifications for key functionalities).	31 March 2020
		Software development for the required adaptation changes to T2 is started	Participants have started their internal developments to adapt their IT systems and processes to T2.	31 March 2020
		Software development for the required adaptation changes to T2 is completed	Participants have finalised their internal developments to adapt their IT systems and processes to T2.	31 October 2020
		Testing of the internal applications is started	Participants have started internal testing. Participants have completed their internal testing of key functionalities to enable the User testing and	30 June 2020
	IAD8	Testing of the internal applications is completed Network service provider selection criteria development is	migration.	31 December 2020
Network Service	NSP1	completed	Participants have developed the selection criteria for the network service providers (e.g. decision on direct or indirect connection, value added services expected from network service providers).	15 July 2019
rovider Procurement	NSP2	New connectivity design strategy and planning is completed		31 December 2019
Process	NSP3	Network service provider selection and contract preparation is completed	Participants have selected their network service provider and completed the preparation for the contract signature.	31 March 2020
		Network service provider procurement is completed	Participants have procured and signed a contract with their selected network service provider.	31 July 2020
	NCO1	Network connectivity tests are started	Participants start the connectivity testing on the testing environment before user testing activities.	31 December 2020
letwork Connectivity	NCO2	Network connectivity tests are completed and user testing activities are ready to start		28 February 2021
Jser Testing Activities		User testing activities (including community and dress rehearsals for the migration) are completed	Participants have completed the user testing and have completed the certification tests required by the Eurosystem. Participants are ready to start the migration activities on the production environment.	30 September 2021
Contractual and Legal Adaptation	CLA	Contractual and legal adaptations are completed	Participants have completed contractual and legal adaptations.	30 September 2021
nternal Staff Training	IST	Internal staff training is completed	Participants have completed internal training for the testing and operational activities.	30 September 2021
perational Procedure Adaptations		Operational procedure adaptations are completed	Participants have completed the operational procedure adaptations.	30 September 2021
Migration Activities	MAP		raticipants are ready to start the migration activities and to setup reference data (e.g. users, access	1 October 2021
	MAE	Migration activities are completed	Participants have completed the pre-migration activities and are ready for the go-live.	5 November 2021
Go-live	GLI		Go-live of T2 service (first business day)	22 November 2021

7. Readiness, timeline, testing and migration7.3 Monitoring Framework

Reporting Lines



Info sessions & Meeting

BCL info sessions on TARGET Consolidation (Q4 2019) Mandatory for 130 Banks - [1-2] staff max/bank

BCL Trainings on TARGET Consolidation (Q4 2020 / Q1 2021) Mandatory for all banks instructing their MCA on their own - [1-2] staff max/bank

66

7. Readiness, timeline, testing and migration7.4 Next step - NSP selection & contracting

✓ Participants have completed the new connectivity design strategy (e.g. on U2A/A2A) and planning.
 [31/12/2019] – BCL will send you again the "configuration" questionnaire.

The banking community in Luxembourg

- Existing Target2 participants (33 banks) will hold a DCA on RTGS and a MCA on CLM.
- All other BCL account holders (95 banks) will hold a MCA on CLM.

Futur management of accounts

- The BCL asked all the banks how they intend to manage their account in the future T2.
- 4 configurations are envisaged:
 - A. Direct management via ISO20022 messages
 - B. Direct management via the Graphical User Interface
 - C. Delegation of the account management to a « comanager » (who selected configuration A or B)
 - D. Delegation of the account management to the BCL



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AGENDA

- 1. Introduction
- 2. The new T2 overview
- 3. The new T2 CLM (Central Liquidity Management)
- 4. The new T2 RTGS (Real Time Gross Settlement)
- 5. The new T2 the common components
- 6. The co-management in CLM
- 7. Readiness, timeline, testing and migration
- 8. The Network Service Providers (SIA COLT and SWIFT)