



# Target Consolidation Training

Virtual Info session n°13 on Planning, testing and migration

2021-11-25

*9h30 – 12h*

*WEBEX EVENT*



# Event rules

Join Event Now

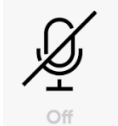
To join this event, provide the following information.

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. High level Planning, upcoming milestones, client readiness

## 2. User Testing

1. Key principles
2. Detailed planning
3. Testing phases (certification, business day, etc, links T2S, TIPS)
4. Testing - issues

## 3. Migration

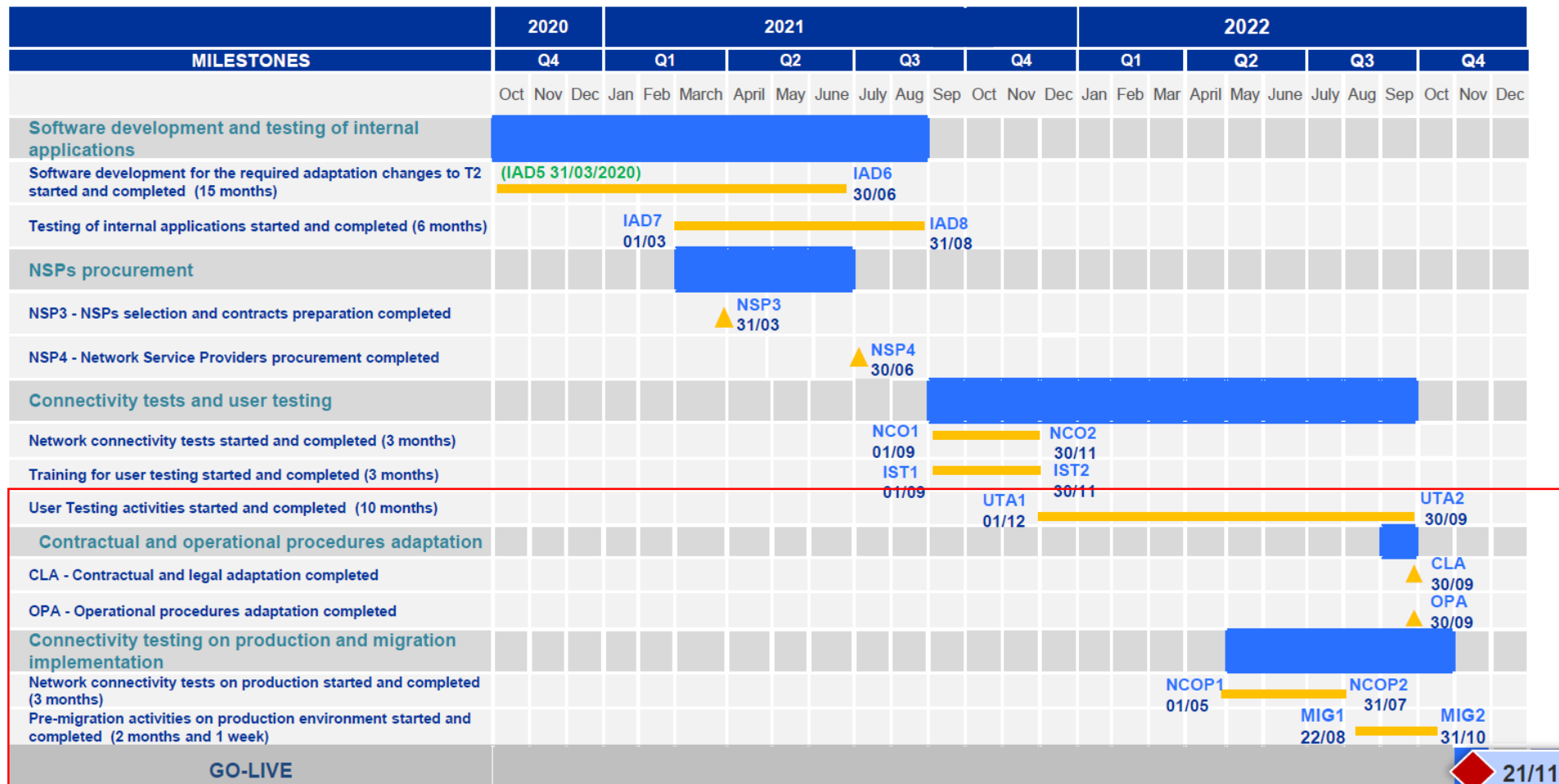
1. Key principles
2. Migration Detail
3. Migration testing

## 4. Contact



# 1. Planning, upcoming milestones, and client readiness

# ECB Key milestones



# ECB Key milestones

## Next steps

- **Participants to finalize their connectivity testing with SWIFT / SIA users by 30/11/2021**
- **Participants to send their registration form to the BCL (if not done yet, due date was 15/11/2021)**
- **BCL to create participants on the UTEST environment with the help of ECB and the target Conso service desk**
- **Participants to start user testing:**
  - **Your static data will be created in December and you will receive a confirmation by BCL.**
  - **First, your administrator user (created by the BCL based on your registration form data) shall create your business users and assign them the appropriate roles and privileges in CRDM**
  - **Then, the business users can start the functional testing.**
  - **Note for co-managees: follow your co-manager testing instructions**

# Community readiness

## **Monitoring / reporting**

Quarterly readiness reporting to be sent to the BCL (readiness against ECB milestones) via EPSILON surveys

New reporting for testing to be detailed in the next part





## 2. User Testing



## 2.1 Testing principles

# User Testing principles

- The « UTEST » Environment will host the User Testing of the T2
- The UTEST test environment will be available during the standard opening hours (07:00 and 19:00 CET) from Monday to Friday except on Target closing days
  - when any maintenance activities are scheduled and
  - when a deployment of software release has been agreed
- The T2 Standard Day will apply as default to the UTEST test environment from Monday to Thursday until the TARGET services are connected and the T2-T2S synchronised schedule shall apply when all the TARGET services are connected during the User Testing phase
- On Fridays, by default T2-T2S Synchronised release day schedule will be applied (whether there is a release or not)

The UT TOR defines the user testing stage principles:

[https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/t2\\_t2s\\_consolidation\\_user\\_testing\\_terms\\_of\\_reference.pdf](https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/t2_t2s_consolidation_user_testing_terms_of_reference.pdf)

# User Testing principles

## Participating actors

- The ECB User Testing and Migration (UT-MIG) team;
- The TARGET Service Desk at the T2 Operator;
- The Central Banks;
- The T2 Participants

The Central Banks 'National Service Desks' will act as a support to T2 participants

- Will inform you of the release (timing and content)
- Will inform you in case of issue on the platform

**!! We need a generic email address per counterparty by 17/12/2021 !!**

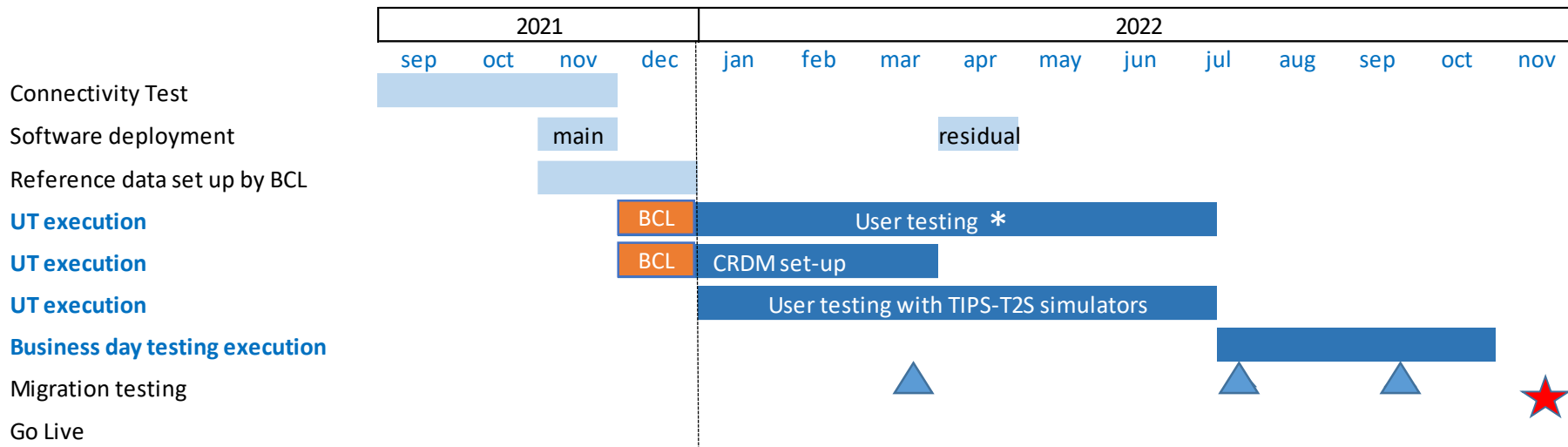
## User Testing phases:

- UT Connectivity (covered in training session 2)
- UT Community
- UT Business Day
- Migration testing (to be covered under migration item of this presentation)



## 2.2 Testing Planning

# UT Testing planning



\*Includes mandatory testing, in addition to the testing of your own end to end test scenarios and your business activities (A2A and U2A)

# Testing planning

- UT testing stage is divided into three different test phases
  - UT Connectivity
  - UT community (01/12/2021 to 01/11/2022)
    - 01/12/2021 to 25/03/2022: CRDM testing - Reference data set-up (covered in training sessions 5 & 6)
    - 03/01/2022 to 01/11/2022: UT mandatory test cases execution. Please note that there will be several rounds of UT mandatory test cases execution
    - 03/01/2022 to 15/07/2022: CLM, RTGS and CRDM testing with Simulators. Please note that there will be several rounds of testing with simulators
  - UT Business day (18/07/2022 to 04/11/2022)



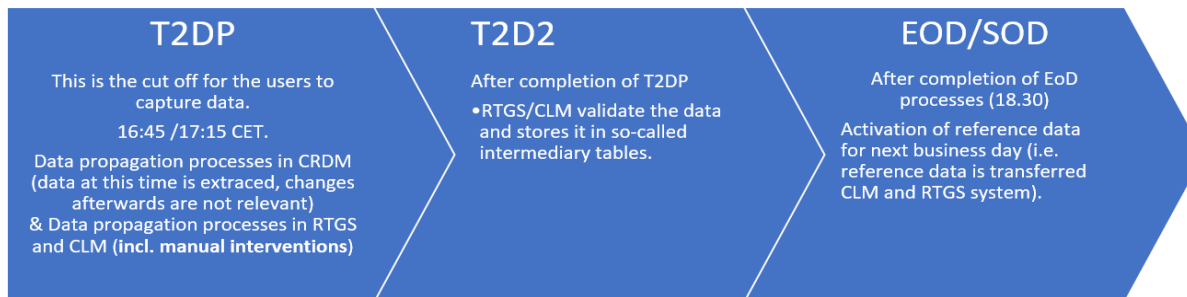
## 2.3 Testing phases in details



# UT community

## UT mandatory tests

- Pre-requisites:
  - Connectivity tests are complete
  - Reference data set-up is complete for the participants
  - Reference data propagation is performed: data entered on BD will be valid on BD+1



T2DP (T2 Data Propagation) is the cut-off for users to capture data that would be valid as of next business day. The cut-offs timing for the users will be 16:45 CET

# UT community

## UT mandatory tests

- The UT mandatory test cases have to be run by all participants.  
[https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/T2\\_Mandatory\\_Test\\_Cases\\_UT\\_v1.0.pdf](https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/T2_Mandatory_Test_Cases_UT_v1.0.pdf)
- 4 main categories of mandatory test cases:
  - CRDM
  - CLM
  - RTGS
  - AS
- 2 types of Mandatory test cases:
  - Mandatory for all
  - Conditional (COND): you need to justify why you don't have to run them (ex. AS if you are not concerned by Ancillary Systems)

# UT community

## UT mandatory tests

- CLM and RTGS Account Holders

Test ID	Domain	Input Mode	Test Case name	Mandatory
T2_TC_AH_ID1	CRDM	U2A	Create Message Subscription Rule Set	Yes
T2_TC_AH_ID2	CRDM	U2A	Create Certificate DN	Yes
T2_TC_AH_ID3	CRDM	U2A	Create User Certificate DN Link	Yes

- CLM Account Holders

Test ID	Domain	Input Mode	Test Case name	Mandatory
T2_TC_CLM_AH_ID1	CLM	U2A or A2A	CLM liquidity transfer order to RTGS DCA	COND
T2_TC_CLM_AH_ID2	CLM	U2A or A2A	CLM liquidity transfer order between two MCAs	COND
T2_TC_CLM_AH_ID3	CLM	U2A or A2A	Available liquidity CLM query	Yes
T2_TC_CLM_AH_ID4	CLM	A2A	Recourse to a deposit facility.	COND
T2_TC_CLM_AH_ID5	CLM	U2A or U2A	Verify Credit line increase	COND

# UT community

## UT mandatory tests

- RTGS Account Holders

Test ID	Domain	Input Mode	Test Case name	Mandatory
T2_TC_RTGS_AH_ID1	RTGS	U2A or A2A	Send Liquidity Credit Transfer camt.050	Yes
T2_TC_RTGS_AH_ID2	RTGS	U2A or A2A	Receive Liquidity Credit Transfer camt.050	COND
T2_TC_RTGS_AH_ID3	RTGS	A2A	Receive Resolution of Investigation camt.029	COND
T2_TC_RTGS_AH_ID4	RTGS	U2A or A2A	Send Financial Institution Credit Transfer pacs.009	Yes
T2_TC_RTGS_AH_ID5	RTGS	U2A or A2A	Receive Financial Institution Credit Transfer pacs.009	Yes
T2_TC_RTGS_AH_ID6	RTGS	U2A or A2A	Send Customer Credit Transfer pacs.008	Yes
T2_TC_RTGS_AH_ID7	RTGS	U2A or A2A	Receive Customer Credit Transfer pacs.008	Yes
T2_TC_RTGS_AH_ID8	RTGS	A2A	Financial Institution Direct Debit pacs.010	COND
T2_TC_RTGS_AH_ID9	RTGS	A2A or U2A	Request payment order revocation	Yes
T2_TC_RTGS_AH_ID10	RTGS	U2A or A2A	Send Payment Return pacs.004.	COND
T2_TC_RTGS_AH_ID11	RTGS	U2A or A2A	Receive Payment Return pacs.004.	YES

# UT community

## UT mandatory tests

- Ancillary Systems

Test ID	Domain	Input Mode	Test Case name	Mandatory
T2_TC_AS_ID1	RTGS	A2A	AS settlement type procedure A	COND
T2_TC_AS_ID2	RTGS	A2A	AS settlement type procedure B	COND
T2_TC_AS_ID3	RTGS	A2A	AS settlement type procedure C	COND
T2_TC_AS_ID4	RTGS	A2A	AS settlement type procedure D	COND
T2_TC_AS_ID5	RTGS	A2A	AS settlement type procedure E	COND

The exact timeslot for these tests will be communicated to you in due time (dates foreseen as of today: 1 week in March and 3 weeks in July)

# UT community

## UT mandatory tests - Reporting

- All participants have to send the status of the Mandatory tests cases to BCL each month (usually not later than the last working day of the month).
- A template (see below) will be circulated in due course. **Screens shot of evidence in case of success will be required.**

Certification Testing Report  
T2 Participants

Institution:

date

Contact person:

email

Connectivity	Test ID and Test case name				Input		Test cases			Required test evidence and comments	Eurosystem Certification date
		CLM AH	RTGS AH	AS & SB	22	A2A	Successful	Not successful	Not applicable		
CRDM	T2_TC_AH_ID1 - Create Message Subscription Rule Set	M	M	M	✓	✗					
	T2_TC_AH_ID2 - Create Certificate DN	M	M	M	✓	✗					
	T2_TC_AH_ID3 - Create User Certificate DN Link	M	M	M	✓	✗					
CLM	T2_TC_CLM_AH_ID1 - CLM liquidity transfer order to RTGS DCA	C	NA	NA	✓	✓					
	T2_TC_CLM_AH_ID2 - CLM liquidity transfer order between two MCAs	C	NA	NA	✓	✓					
	T2_TC_CLM_AH_ID3 - Available liquidity CLM query	M	NA	NA	✓	✓					
	T2_TC_CLM_AH_ID4 - Recourse to a deposit facility	C	NA	NA	✗	✓					
	T2_TC_CLM_AH_ID5 - Verify Credit Line increase	C	NA	NA	✓	✓					
	T2_TC_RTGS_AH_ID1 - Send Liquidity Credit Transfer camt.050	NA	M	NA	✓	✓					
	T2_TC_RTGS_AH_ID2 - Receive Liquidity Credit Transfer camt.054	NA	C	NA	✓	✓					
	T2_TC_RTGS_AH_ID3 - Receive Resolution Of Investigation camt.029	NA	C	NA	✗	✓					
	T2_TC_RTGS_AH_ID4 - Send Financial Institution Credit Transfer pacs.009	NA	M	NA	✓	✓					
	T2_TC_RTGS_AH_ID5 - Receive Financial Institution Credit Transfer pacs.009	NA	M	NA	✓	✓					
	T2_TC_RTGS_AH_ID6 - Send Customer Credit Transfer pacs.008	NA	M	NA	✓	✓					

# UT community

## UT tests

- Objectives: Besides the UT mandatory tests, the participants test the systems with the software packages deployed with T2S and TIPS simulators
  - Test of every component available
  - Test between T2 participants (including if needed cross border payments)
    - Identify your critical counterparty in production
    - Liaise with your counterparty for bilateral tests
    - Contact details for cross-border only will be collected by BCL and shared afterwards
    - BCL will not coordinate these tests
  - Verify the operational readiness of the T2 participants (includes your internal tests)

# UT community

## Business day testing

- Objectives:
  - Test of all operational procedures
  - End to end testing with the Target services (T2S and TIPS) connected to T2 in the UTEST environment
  - Test of internal systems to ensure that the system(s) can follow the production schedule
  - Regular business day testing and Business day under abnormal situations and under contingency situations





## 2.4 Testing - issues

# UT community Testing - incident

- What to do in case of issue ?
  - First check that your internal set-up is correct
    - U2A: verify the roles and privileges
    - A2A: verify the message on your side (including the business and technical header)
    - If everything seems to be ok on your side, you need to **report the incident to BCL**
- How to report an incident to BCL ?
  - Fill the form (see next slides) and save it using the naming convention which will be provided to you
  - Include as many details as possible and screens shots (mandatory)
  - Send it to [NSD.Target@bcl.lu](mailto:NSD.Target@bcl.lu)

**!! Please note that only complete form will be treated by BCL !!**

- What to do next ?
  - You need to provide additional information: you will receive a request from BCL
  - Your issue is NOT a Target defect: you will be asked to investigate again internally
  - Your issue is a Target defect
    - Test again as soon as BCL informs you of the fixing
    - Inform BCL of the outcome of your test immediately after your re-test

# UT community Testing - incident



Submission Date – select date

Field Name	M / O	Incident details
Incident detected by	M	TRGTXEPM – BIC of T2P
High-level summary	M	
Keyword	M	[UT]
T2 test environment	M	UTEST
Module	O	<input type="checkbox"/> ESMIG <input type="checkbox"/> CRDM <input type="checkbox"/> RTGS <input type="checkbox"/> CLM <input type="checkbox"/> BDM <input type="checkbox"/> DWH <input type="checkbox"/> ECONS II
Connection	M	<input type="checkbox"/> A2A <sup>1</sup> <input type="checkbox"/> U2A <sup>2</sup>
Detailed description	M	Please provide Test scenario, expected result and received result. You can insert full screenshots on page 2 <div></div>
Test Setup	M	User <div></div> Parent BIC: <div></div> Party BIC: <div></div>
Timestamp Test execution	M	Date select date Time <div></div>
Additional information	O	Priority*: <input type="checkbox"/> URGENT <input type="checkbox"/> MEDIUM <input type="checkbox"/> LOW
	O	General information: <div></div>
	O	Impact on Testing: <div></div>
Customer Ticket ID	O	<div></div>
Reference from T2 scope defining document	O	Please provide version of document, page, chapter <div></div>
Publication	O	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Broadcast



## 3. Migration



## 3.1 Migration Principles

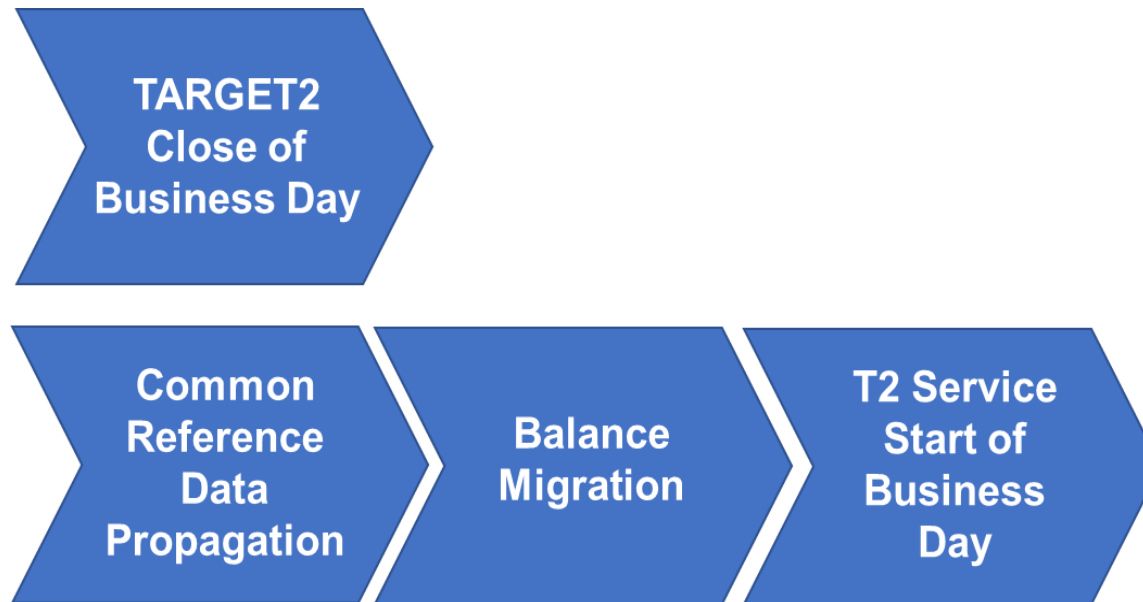
# Migration key principles

## Key principles

- Big bang approach: In November 2022, your accounts opened on BCL internal systems will be closed and all balances will be migrated onto your new MCA... hence you must be ready to manage your new MCA from the migration day, as no accounts will be kept in old systems.
- The migration process will only transfer your dynamic data (i.e. balances, credit lines) from existing systems onto the new one, while all static data (account number, users, etc) need to be created 'from scratch' during the pre-migration, based on the received registration forms\*, no static data from the BCL or TARGET2 will be migrated.
- After the transfer of your balances onto your MCA, you will be responsible to transfer liquidity on your DCAs (T2S, RTGS if you own those) during the migration week end to have your liquidity available for settlement on the 1st business day of running.
- Several Migration Week End rehearsals will be organised during the User Testing phase.

# Migration key principles

High-level migration sequence:



The Pre-Migration Schedule and a Migration Weekend Playbook for the T2-T2S Consolidation go-live will define the sequencing and timing of the migration



## 3.2 Migration details



# Migration Week end definitions

- The migration consists of 3 stages : Pre-Migration, the Migration Weekend and a Post-Migration stage.
  - Each stage will include various Checkpoints to monitor the progress of all parties participating in the migration.
  - The monitoring of the activities is centrally done
    - By the CBs for their community
    - By the ECB team in charge of the Migration for the CBs (and their community)
- In case of significant deviation to the planned MWCPs (Migration Week end Checkpoints), an escalation is triggered.

ECB Documentation :

[https://www.ecb.europa.eu/paym/pdf/consultations/T2\\_Migration\\_Testing\\_and\\_Readiness\\_Strategy\\_2.0.pdf](https://www.ecb.europa.eu/paym/pdf/consultations/T2_Migration_Testing_and_Readiness_Strategy_2.0.pdf)

# Pre-migration Schedule

Activities high-level sequencing :

1. The reference data of the Central Banks' is verified.
2. The CBs configure their own reference data as well as those of their T2 participants based on their registration form.
3. The T2 participants verify access to the system and finalize the configuration of their own reference data.

# Migration of cash balances

## For RTGS Direct participants

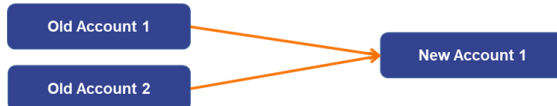
National mapping table possibilities for RTGS / Target2 Direct participants –

> There are technical constraints

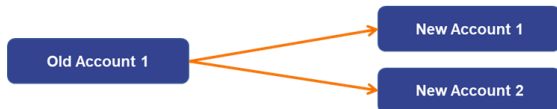
a) One-to-one conversion



b) Many-to-one conversion



c) One-to-many conversion (**not supported by automated migration**)



d) Many-to-many conversion (**not supported by automated migration**)



Example:

- You can map 1 or 2 or 3 TARGET2 PM accounts to one MCA (and then re-transfer liquidity to your RTGS DCAs)
- You cannot map 1 TARGET2 PM account to 2 different MCAs or RTGS DCAs
- In conclusion, only a single MCA can receive your balance as per the technical migration.

# Migration of cash balances

## For non RTGS participants

*i.e. institutions holding a 041 current account (and 030 reserve account) today on BCL systems (100 banks in LU) and who will **not own any DCA** in TARGET services (TIPS, T2S, RTGS) but **only hold a MCA***

- The BCL will create your MCA following your registration form
- Your 041 accounts last closing balances held in BCL system will be migrated onto **the BCL MCA** as per the technical migration
- The BCL will close your 041 and 030 accounts on its systems
- The BCL will dispatch your last closing balances onto your single MCA
- **No need to transfer further liquidity** as you do not have any DCA
- On Sunday and/or Monday, you will access your MCA (on your own via ESMIG or via your co-manager) to control your balance and start your activities.

# Migration of cash balances

## For RTGS Direct participants

*i.e. institutions holding a 042 current account (and 030 reserve account) today on BCL systems (34 banks in LU) and who will **own at least a DCA** in TARGET services (TIPS, T2S, RTGS) **in addition to a CLM MCA***

- The BCL will create your MCA following your registration form
- Your 042 last closing balance held in BCL system will be automatically migrated onto **your new MCA**, following a national mapping table (NMT) completed by the BCL (see next slide) The BCL closes your 042 and 030 accounts on its systems
- You shall verify, in the CLM GUI, that your MCA balance correspond to your last closing balance. **If you need to start early settlement on your DCAs, you need to transfer liquidity from your MCA** to your DCA(s)
- On Sunday and/or Monday you will access your MCA and DCA to re-control your balances and start/continue your settlement activities.

# Migration of Reserve management data

The Target Consolidation date is in the middle of a Reserves Maintenance period, which requires a specific treatment

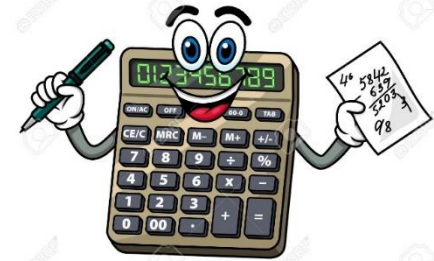
As part of the migration activities, the BCL will declare on CLM the amount of your [Mandatory Minimum reserves requirements](#) for that reserves period.

The BCL will then declare in CLM the balances that used to be present on your 030 account for the pre-migration dates (i.e. 2<sup>nd</sup> Nov – 17th Nov).

Once done, you will be able to use the new CLM features.

# Standing Facilities

**In case you have in-flight standing facilities before the migration (overnight deposits and marginal lending)**



## T2 Direct participants

*Marginal Lending:* negative balances present on the Target2 account will be automatically transferred to MCAs.

*Overnight Deposits:* BCL will transfer the overnight deposit on the participant's MCA as the ODA (and MLA) will only be available on the first production day of Target Conso.

## Non T2 participants

*Marginal Lending:* BCL will transfer the negative balance on the participant's MCA (amount + interests).

*Overnight Deposits:* BCL will transfer the overnight deposit to MCAs as the ODA (and MLA) will only be available on the first production day of Target Conso.

# Migration playbook

- The migration playbook will be finalised after the first CBs migration tests
- The details will be communicated to the participants in due course
- Next slide provides an extract for information only



# Migration playbook

Activity code	Resource Names	Task Name	Duration	Start	Finish
T2.MW.T2P.ESMIG	ALL T2Ps	T2P connect internal systems to ESMIG	240 mins	Fri 18/11/22	Fri 18/11/22
T2.MW.T2P.ESMIG	ALL T2Ps	T2P connect internal systems to ESMIG - buffer	430 mins	Fri 18/11/22	Sat 19/11/22
T2.MW.T2P.CLM.LD	LU-T2Ps	T2P liquidity distribution from CLM	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.CLM.LR	LU-T2Ps	T2P liquidity distribution reconciliation	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.CLM.LRP	LU-T2Ps	T2P liquidity distribution from CLM repair	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.CLM.SOR	LU-T2Ps	T2P CLM standing orders reconciliation	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.RTGS.SOR	LU-T2Ps	T2P RTGS standing orders reconciliation	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.RTGS.LD	LU-T2Ps	T2P liquidity distribution from RTGS	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.RTGS.LR	LU-T2Ps	T2P liquidity distribution reconciliation	60 mins	Sat 19/11/22	Sat 19/11/22
T2.MW.T2P.RTGS.LRP	LU-T2Ps	T2P liquidity distribution from RTGS repair	60 mins	Sat 19/11/22	Sat 19/11/22

*Disclaimer : it may be subject to change after migration testing.*



## 3.3 Migration testing

# Migration Testing definitions

## Migration Testing Principles:

- Validating sequencing of activities as described in Migration Weekend Playbook
- Validating that planned activities can be performed within the foreseen timeframe
- Ensure Migration Readiness of CBs and their communities

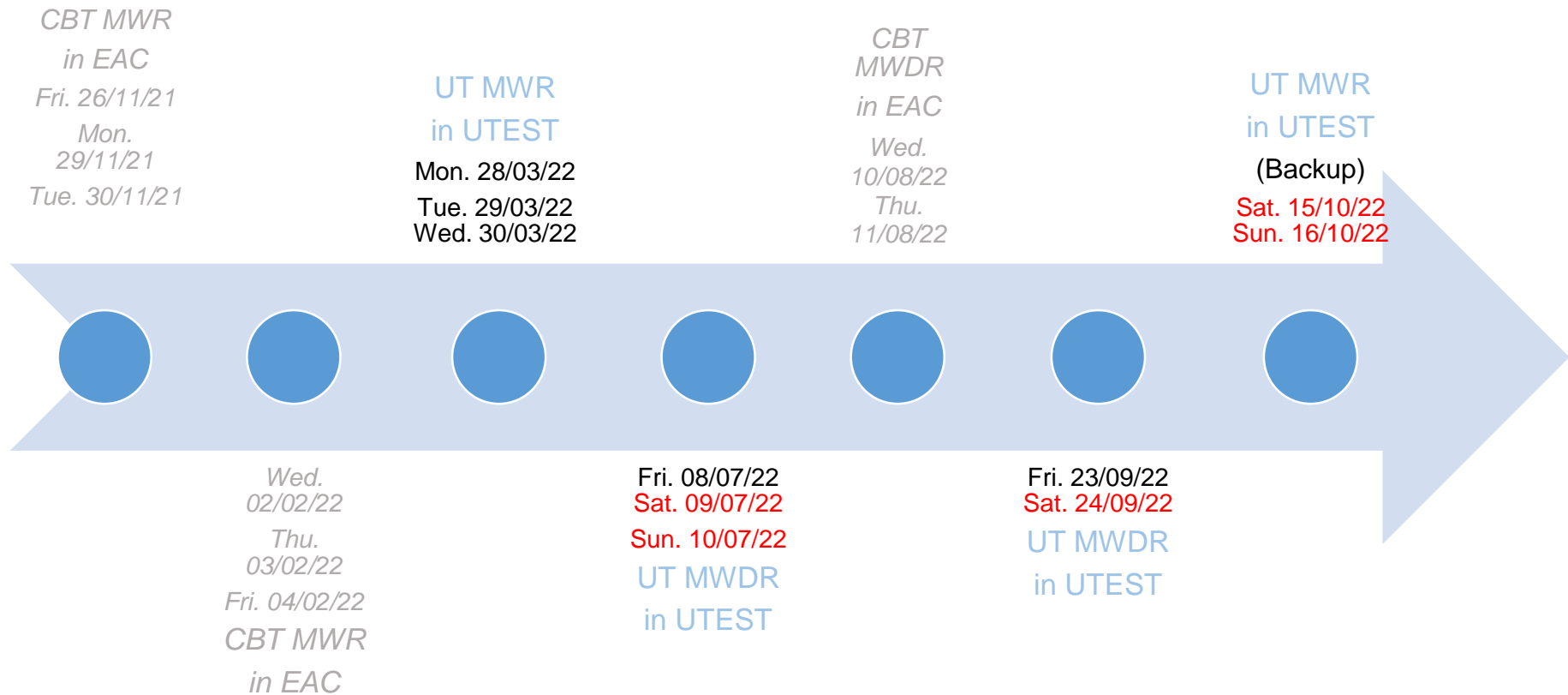
## Types of Migration testing:

- Pre-Migration Rehearsal (PMR)
- Migration Weekend Rehearsal (MWR)
- Migration Weekend Dress Rehearsal (MWDR)

The Pre-migration Rehearsal (PMR) is a test of the pre-migration activities with the full set of reference data to be migrated from TARGET2 and newly set-up in Common Reference Data Management (CRDM) and then propagated to T2 following the pre-migration schedule.

The Migration Weekend Dress Rehearsals (MWDR) focus on the migration of the needed dynamic data, which can only be defined after the closing of the predecessor system. It contains the full T2 participant's production data requiring migration from TARGET2 to T2.

# Migration Testing planning

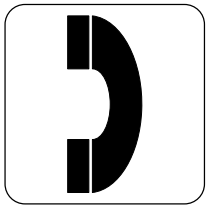




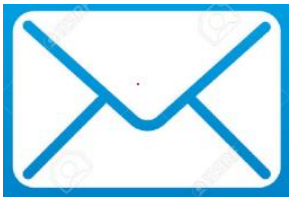
## 4. Contact

# Contact

Service Desk for the next project phases:



+352. 4774.4690



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