



EUROPEAN CENTRAL BANK

EUROSYSTEM

FOCUS SESSION

European Central Bank

12/06/2023

Eurosystem Collateral Management System





EUROPEAN CENTRAL BANK

EUROSYSTEM

Preparing for User Testing

12/06/2023

Bamini Santhana Raghavan
Market Infrastructure PM Expert, ECB



Your journey in User Testing: 7 critical steps

ECMS Actors prepare registration form for UT and selection of NSPs



1



Registration form for UT delivered to NCB



2



Connectivity to ECMS via ESMIG tested for UT

Upon greenlight of NCB, ECMS Actors starts connectivity for UT



4

Ref. data for UT captured by Counterparties (pre-migration rehearsal)



Upon greenlight of NCB, Counterparties capture own reference data (e.g. create user, grant access rights,...)

3

Ref. data for UT captured by NCB (pre-migration rehearsal)

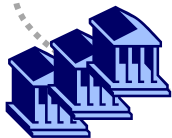


Support and Training

5

UT execution started

Execute Community Testing



6

Fundamental test cases Passed

Execute Business day Testing

7

Migration Rehearsals Successful

Ready for migration go live



User Testing

Phases specific to NCBs, CSDs, TPAs are not mentioned in the table below which focuses on phases common for all ECMS Actors.






Phases	2022		2023												2024					
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
Migration Registration form for UT delivered to NCB			1	✓															ECMS Go live	
Connectivity to ECMS via ESMIG tested for UT				2	→			✓												
Ref. data for UT captured by NCB and Counterparties								3	4											
UT – Community testing phase 2 and Business day testing								5	2a			2b		2c						
Fundamental test cases Passed																			6	
Migration Rehearsals								7	◆		◆	◆		◆		◆	◆			

- ◆ Migration Rehearsals
- ◆ Optional Migration Rehearsal

User Testing

1 Registration Form for UT delivered to NCB








Scope (what?)		Provide filled-in registration forms to NCB.
Actors involved		CSDs, TPAs and Counterparties
Planning (when?)		Activity should already be completed (set up of reference data by NCB has started). If not, please contact the NCB as soon as possible.
Support 1st level (who?)		NCB ECMS National Service Desk
Key documents (how?)		Registration form

User Testing

2

Connectivity to ECMS via ESMIG tested for UT* ✓

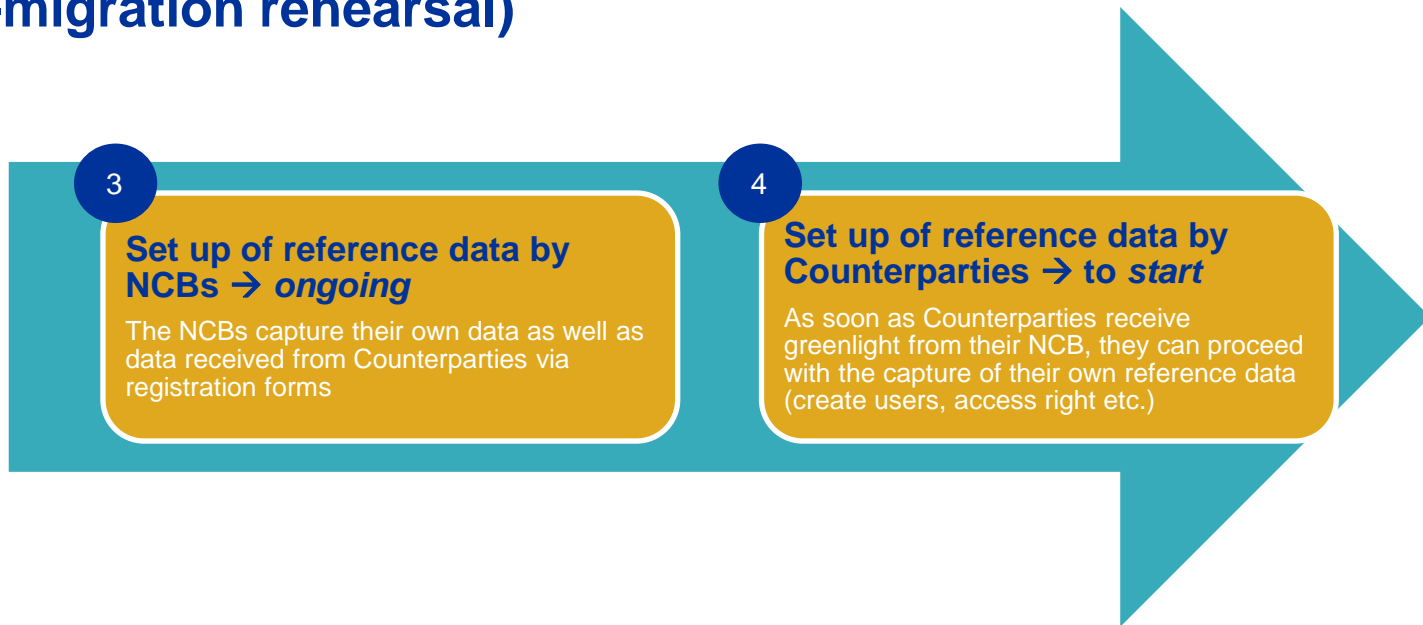
Scope (what?)		The objective is to ensure full end-to-end connectivity to the ECMS via ESMIG i.e. to ensure that all communication between ECMS actors and the ECMS is working properly for A2A (correct inbound and outbound messages transmission) and U2A** (access to the ECMS GUI).
Actors involved		NCBs, CSDs, TPAs and Counterparties
Planning (when?)		Activity planned to be completed by 26 May 2023. If U2A connectivity is not yet established by a Counterparty, it should be established latest by 23 June 2023 to allow the set up of reference data. If A2A connectivity is not yet established, the actor should contact the NCB to discuss their planning; if needed the actors can pursue the connectivity activity from 10 July 2023 in parallel to functional testing.
Support 1st level (who?)		For technical problems, depending on nature of the problem: selected NSP support team and ECMS National Service Desk. In case of need, the NSP's support and the ECMS Services Desk can cooperate by means of a joint teleconference with the NCB ECMS National Service Desk.
Key documents (how?)		TARGET Services Connectivity guide Selected NSP documents and guides ECMS User Testing Terms of Reference for Pre-production environment ESMIG U2A Qualified Configurations

(*) This is valid for Counterparties who will connect directly via ESMIG

(**) Go-Sign Desktop client is a prerequisite tool for using ECMS screens subject to Non Repudiation of Origin (NRO).

User Testing

Ref. data for UT captured by NCB and Counterparties (pre-migration rehearsal)








User Testing

3 Set up of reference data by NCBs (pre-migration rehearsal)

Scope (what?)		Part of pre-migration rehearsal, capture of NCBs own reference data and data provided by Counterparties via registration forms.
Actors involved		NCBs
Planning (when?)		From 29 May 2023 until 23 June 2023 – Ongoing. A second pre-migration rehearsal from 21 September 2023 to 03 October 2023 if required.
Support 1st level (who?)		ECMS Service Desk
Key documents (how?)		ECMS Migration document Registration form

User Testing

4 Set up of reference data by Counterparties (pre-migration rehearsal)

Scope (what?)		Part of pre-migration rehearsal, after the capture of their registration form data by the NCB, Counterparties capture their own reference data under their direct management (e.g. users, access rights).
Actors involved		Counterparties
Planning (when?)		From 26 June 2023 until 30 June 2023. A second pre-migration rehearsal from 04 October 2023 to 10 October 2023 if required.
Support 1st level (who?)		NCB ECMS National Service Desk
Key documents (how?)		U2A and A2A roles in the ECMS ECMS Migration document

User Testing

ECMS User Testing (UT) execution will follow a staggered testing approach by functionality

5

Greenlight to start UT
functionality A

Greenlight to start UT
functionality B and C

Greenlight to start UT
functionalities D and E

Testing of A*

Testing of A+B+C

Testing of A+B+C+D+E






.....

Functionalities available for testing and potential testing limitations are communicated to the Community (ECMS Testing conditions **deliverable** document).
During planned migration rehearsals (see slide13) functional testing is interrupted.

*Functionality A: Target is mobilisation/demobilisation of marketable assets and related fundamental test cases






User Testing

5 UT execution started

Scope (what?)		Community testing and business day testing allowing the community to test under conditions similar to production. Staggered approach per group of functionalities: actors can start testing functionalities for which greenlight was provided, taking into account the potential testing limitations communicated in the ECMS testing conditions document. These phases are complemented by tests focusing on a specific scope: the migration testing and the testing of operational procedures. Coordinated tests will be organised for Market Policy Operations, Billing, Operational Related Tests.
Actors involved		NCBs, CSDs, TPAs and Counterparties
Planning (when?)		<p><u>Community testing phase 2a</u> from 26 June 2023 until 20 September 2023 (with inter-connection with T2S/CLM). <u>Community testing phase 2b</u> from 21 September 2023 until 16 November 2023 (without inter-connection with T2S/CLM – use of simulators).</p> <p><u>Community testing phase 2c</u> from 17 November 2023 until 16 February 2024 (with inter-connection with T2S/CLM). <u>Operational testing phase</u> from 28 August 2023 to 31 January 2024. <u>Business day testing phase</u> from 04 to 07 December 2023 and from 22 January to 08 February 2024 except Fridays <u>Coordinated tests</u>: planning will be documented in the ECMS testing conditions document.</p>
Support 1st level (who?)		For the counterparties, CSDs and TPAs, the main support is given by the NCB ECMS National Service Desk. Support to NCBs is provided by the ECMS Service Desk.
Key documents (how?)		Strategy for ECMS Migration and Testing ECMS User Testing Terms of Reference for Pre-Production environment SWIFT MyStandard readiness portal ECMS testing conditions document






User Testing

6 Fundamental test cases passed

Scope (what?)		The ECMS UT Fundamental test cases should be successfully executed by each ECMS Actor (conditions apply depending on actor type), and results to be provided to their respective NCB. ECMS Actors report progress to NCB for consolidation by ECB on a monthly basis.
Actors involved		NCBs, CSDs, TPAs and Counterparties
Planning (when?)		ECMS Actors can start as soon as UT Stage commences, taking into account the staggered approach. Must be successfully completed before 16 January 2024.
Support 1st level (who?)		For the counterparties, CSDs and TPAs, the main support is given by the NCB ECMS National Service Desks. Support to NCBs is provided by the ECMS Service Desk.
Key documents (how?)		ECMS UT Fundamental test cases. Each NCB could ask their community perform additional test cases in addition to those defined in ECMS UT Fundamental test cases.

User Testing

7 Migration Rehearsals

Scope (what?)		The ECMS migration rehearsals aims at testing all steps of pre-migration, preparation week and migration weekend, in which the reference data and transactional data (e.g. credit and collateral positions) respectively should be migrated. During those tests, functional testing is not possible.
Actors involved		NCBs, CSDs, TPAs and Counterparties (with limited number of activities)
Planning (when?)		Pre-Migration, preparation week and migration weekend test is planned from 26 June 2023 to 07 July 2023. Preparation week and migration weekend test is planned from 12 to 20 September 2023. Optional pre-Migration, preparation week and migration weekend test is planned from 21 September 2023 to 16 October 2023. Preparation week and migration weekend test is planned from 17 to 26 November 2023. Preparation week and migration weekend test is planned from 17 to 21 January 2024. Optional preparation week and migration weekend test is planned from 12 to 18 February 2024.
Support 1st level (who?)		For the counterparties, CSDs and TPAs, the main support is given by the NCB ECMS National Service Desks. Support to NCBs is provided by the ECMS Service Desk.
Key documents (how?)		Registration Forms ECMS migration document

User Testing

Key documents for UT

Testing/Migration Documents	Publication
ECMS info pack – user testing and migration	Published
Strategy for ECMS Migration and Testing	Published *
TARGET Services Connectivity Guide**	Published *
ECMS User Testing Terms of Reference for Pre Production environment	Published *
Registration Form	To be published by NCBs
Fundamental test cases***	Published *
Testing conditions document	Bi-weekly publication during Community Testing Phase as from end of June 2023
ECMS Migration document****	To be published by NCBs (Based on the global Pre-Migration Schedule and Migration Weekend Playbook as well as other migration documentation)
U2A and A2A roles in the ECMS	Published *
ESMIG U2A Qualified Configurations v1_3 (europa.eu)	Published
Training material	To be published by NCBs

(*) on ECB website, under the “[For professional use](#)” section of the [ECMS webpage](#).

(**) for the NSP selected documents and guides, please consult the NSP

(***) each NCB could ask their community perform additional test cases on top of those defined in ECMS UT Fundamental test cases

(****) If needed, an updated version of the deliverable is planned to include lessons learned during the UT execution. There will be a dedicated schedule for each migration rehearsal