

# ECMS User Testing Execution

## Testing Conditions

Next Version(s) delivery Date	Author
26/01/2024	ECB/4CB

New changes introduced in this version included in ***bold and italics***

## Contents

<b>1.</b>	<b>Introduction</b>	<b>3</b>
1.1	Background and objective	3
1.2	Current functional testing scope	3
1.3	Structure of the document	3
<b>2.</b>	<b>User Testing Conditions (cut-off: 10.01.2024)</b>	<b>4</b>
2.1	Complementary information to UT ToR	4
2.1.1	<i>ECMS project – General terms and principles</i>	4
2.1.2	<i>Connectivity testing phase</i>	4
2.1.3	<i>System Reference Data</i>	5
2.2	Category 1 - Functionalities Open for CPTY/CSD/TPA testing	5
2.2.1	<i>Reference Data</i>	6
2.2.2	<i>Marketable Assets</i>	6
2.2.3	<i>Global Credit and Collateral Positions (GCCP)</i>	6
2.2.4	<i>Cash as collateral</i>	7
2.2.5	<i>Credit Claims</i>	7
2.2.6	<i>Monetary Policy Operations</i>	8
2.3	Category 2 - functionalities not open for CPTY testing	8
<b>3.</b>	<b>Annexes</b>	<b>9</b>
	<b>Annex 1 – ECMS functionalities</b>	<b>9</b>
	<b>Annex 2 – Open Defects</b>	<b>11</b>
	<b>Annex 3 – Operational day schedules</b>	<b>14</b>

# 1. Introduction

## 1.1 Background and objective

The Market Infrastructure Board (MIB) has approved to apply a staggered testing approach per functionality for ECMS User Testing (UT) phase. The ECMS functionalities are categorised into 12 different functionalities (See Annex 1). The counterparties (CPTYs)/CSDs/TPAs as part of the ECMS testing actors will be regularly informed via this testing conditions document of the functionalities that are open for their testing in the UT phase in ECMS Pre-Production environment.

The objective of this document is to provide an overview of the ECMS functionalities that are open for counterparty testing and of the software limitations that are impacting ECMS UT for the functionality opened for CPTY/CSD/TPA testing following the staggered approach. With this communication, all the CPTYs/CSDs/TPAs involved in UT are informed of the testing conditions i) enabling fine tuning of local test plan efforts and ii) avoiding defects/bugs on the known/documented limitations.

This overview is updated on a fortnightly basis, and all involved ECMS testing actors are informed of any update on the planning of the testable scope.

## 1.2 Current functional testing scope

The following functional domains are open to CPTYs/CSDs/TPAs testing in the ECMS Pre-Production environment:

- Reference data
- (De)mobilisation/cancellation of marketable assets
- Global credit and collateral position
- Cash as collateral – U2A and A2A cash mobilisation and demobilisation
- Credit Claims – U2A, registration and update of domestic Credit Claims
- Automatic mobilisation and demobilisation of cash collateral
- ***Monetary Policy Operations (Request Marginal lending, Automatic Marginal Lending)***

The detailed user testing conditions are outlined as of section 2.

## 1.3 Structure of the document

The document starts with presenting in section 2.1 the complementary information to the principles and planning aspects stated in [User Testing Terms of Reference for Pre-Production](#), in line with ECMS current testing conditions.

Then, the document presents in section 2.2 the overview of testing conditions in two categories:

1. Functional domains open for CPTY/CSDs/TPAs testing (including the functional elements to be opened in upcoming 2 weeks period) in ECMS UT phase including the limitations that might impact the testing of these functionalities.
2. Functionalities that the Eurosystem has not fully tested and hence are not open for CPTY/CSDs/TPAs testing in the ECMS UT phase.

## 2. User Testing Conditions (cut-off: 10.01.2024)

### 2.1 Complementary information to UT ToR

This section includes some complementary information to the principles and planning aspects stated in User Testing Terms of Reference

#### 2.1.1 ECMS project – General terms and principles

As explained in User Testing Terms of Reference, the following principles are applicable for User Testing phase.

- The standard opening and support hours of the Pre-Prod environment are Monday to Thursday, from 09:00 to 17:30 CET (i.e., following the ECMS standard day schedule), except for Fridays, when the opening hour is from 09:00 to 14:30 CET (i.e., following the ECMS release day schedule). Outside of this period, it might be possible to access the screens but the accessibility and the testability of the software on the Pre-Prod environment are not guaranteed.
- During UT, the Pre-Prod environment will be connected to the testing environments of other TARGET services.

Service	ECMS UT in Pre-Prod
<b>T2S</b>	Two slots: 1. 3 July 2023 to 20 September 2023 2. 17 November 2023 onwards
<b>CLM</b>	Two slots: 1. 3 July 2023 to 20 September 2023 2. 17 November 2023 onwards

- During the period, when ECMS is connected with TARGET2-Securities (T2S) and the Central Liquidity Management (CLM) the operational day schedules are planned to be aligned. The detailed ECMS process/events for the different operational day schedules are provided in the Annex 3 of this document.

#### 2.1.2 Connectivity testing phase

As explained in the [UT Terms of Reference for PreProd](#), the objective of the connectivity testing phase is to ensure full end-to-end connectivity to the ECMS via ESMIG, i.e. to ensure that all communication

between relevant ECMS testing actors and the ECMS is working properly for A2A (correct inbound and outbound messages transmission), when applicable, and U2A (access to the ECMS GUI).

The ECMS Connectivity Set-up and Execution phase in PreProd started on 13/03/2023 and has been extended past the planned conclusion date of 23/06/2023. This extension aims at facilitating the relevant ECMS testing actors which had still not confirmed connectivity in U2A and A2A (when applicable) to do so.

The actors that were up to now not connected in U2A or A2A shall complete the connectivity tests as early as possible, in order to create their users for their testing activities.

### **2.1.3 System Reference Data**

For the Provision of Reference Data from Eurosystem services for ECMS testing, the CPTYs/CSDs/TPAs shall take note of the following status.

The Eligible Assets (EAs) as of 30/06/2023 were loaded in the pre-production environment and the prices are assigned for these Eligible Assets for the start of testing. The EA list in ECMS will be updated with delta information on a daily basis and the full update of EAs will be done at the end of Month. The prices will also be updated twice a week (every Tuesdays and Thursdays). Nevertheless, it is not guaranteed it will be 100% aligned with Production and not all eligible marketable assets are registered in the T2S testing environment. Hence, if a CPTY need a specific asset for their testing purpose they should liaise with their National Service Desk, which should also ensure the assets are registered in T2S (with support of their CSDs) and adding the prices to these assets in ECMS.

Additionally, the exchange rates will also be maintained in the PreProd environment as per the testing needs by the NCBs for testing purpose.

Please refer to the sections below for the details on the functionalities that can be tested by CPTYs/CSDs/TPAs.

## **2.2 Category 1 - Functionalities Open for CPTY/CSD/TPA testing**

This category lists the functional (sub)domains open to CPTY testing (see Annex 1 for the full list), and the respective limitations.

Based on the outcome of the testing performed by the National Central Banks, the Eurosystem decided to open the following functional blocks for CPTYs/CSDs/TPAs functional testing.

### 2.2.1 Reference Data

For the User Reference Data<sup>1</sup> functional domain,

- the following functional elements are open for testing CPTYs:
  - Create/Update/Delete U2A and A2A Counterparty users and the corresponding access rights setup.
  - Reconciliation via GUI of asset accounts and pools configuration previously set-up done by the NCBs.

The CPTYs shall take note of list of open software defects in Annex 2 which will introduce certain limitations to the testing of above-mentioned functionalities.

### 2.2.2 Marketable Assets

For the Marketable Assets functional domain,

- the following functional sub-domains and its relevant [fundamental test cases](#)<sup>2</sup> are open for testing:
  - Domestic Mobilisation and Demobilisation of Marketable Assets<sup>3</sup>
  - Cross Border Mobilisation and Demobilisation of Marketable Assets – The CPTYs/CSDs/TPAs are advised to wait for the Green Light of their respective NCBs before starting the testing of this functional element. Additionally, the NCBs will communicate the list of CSDs where the asset can be mobilised.
  - Cancellation of Mobilisation and Demobilisation of Marketable Assets
  - Allow many CSDs in ECMS for a unique CSD in T2S (specific for the NASDAQ CPTYs/CSDs/TPAs)
- Please note, functional sub-domains that are not yet open for testing in Marketable Assets are listed in section 2.3.

The CPTYs shall take note of list of open software defects which will introduce certain limitations to the testing and new functional evolutions in Annex 2 of the above-mentioned functionalities.

### 2.2.3 Global Credit and Collateral Positions (GCCP)

For the GCCP functional domain,

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<sup>1</sup> Please note that the reference data functionality will be available from 26/06/2023 so that CPTYs/CSDs/TPAs can create their reference data needed for their functional testing

<sup>2</sup> The Fundamental Test Cases relevant for this functional area - ECMS\_TC\_CPTY\_1, ECMS\_TC\_CPTY\_2, ECMS\_TC\_CPTY\_3 and ECMS\_TC\_CPTY\_4

<sup>3</sup> The domestic mobilisation/demobilisation does not work for the configuration where many CSDs in ECMS are linked to a unique CSD in T2S (Limitations faced by the NASDAQ CPTYs/CSDs/TPAs)

- the following functional sub-domains and its relevant [fundamental test cases](#)<sup>4</sup> are open for testing:
  - Update of Maximum Credit Line value and Credit lines
  - Margin call
  - Credit freezing
  - Global credit position management
  - Update of credit and collateral position due to the change of business date

If the green light is not already given (as this functional domain is already opened), the CPTYs are advised to wait for the Green Light of their respective NCBs before starting the testing of these functional sub-domains and shall take note of open software defects in Annex 2 which will introduce certain limitations to the testing of above-mentioned functionalities.

#### **2.2.4 Cash as collateral**

For the Cash as collateral functional domain,

- the following functional sub-domains and its relevant [fundamental test cases](#)<sup>5</sup> are open for testing:
  - U2A and A2A mobilisation of cash collateral<sup>6</sup>
  - U2A and A2A demobilisation of cash collateral
  - automatic mobilisation and demobilisation of cash collateral<sup>7</sup>

If the green light is not already given (as this functional domain is already opened), the CPTYs are advised to wait for the Green Light of their respective NCBs before starting the testing of these functional sub-domains and shall take note of open software defects in Annex 2 which will introduce certain limitations to the testing of above-mentioned functionalities.

#### **2.2.5 Credit Claims**

For the Credit Claims (CC) functional domain,

- the following functional sub-domains are open for testing in U2A mode only
  - CC registration
  - CC update

If the green light is not already given (as this functional domain is already opened), the CPTYs are advised to wait for the Green Light of their respective NCBs before starting the testing of these functional sub-domains and shall take note of open software defects and limitations in Annex 2.

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<sup>4</sup> The Fundamental Test Cases relevant for this functional area - ECMS\_TC\_CPTY\_11 and ECMS\_TC\_CPTY\_12

<sup>5</sup> The Fundamental Test Cases relevant for this functional area - ECMS\_TC\_CPTY\_8 and ECMS\_TC\_CPTY\_9

<sup>6</sup> To cover a margin call.

<sup>7</sup> To cover a margin call.

Please note, functional sub-domains that are not yet open for testing in credit claims are listed in section 2.3.

### 2.2.6 Monetary Policy Operations

***For the Monetary Policy Operations functional domain, the following functional sub-domains and its relevant [fundamental test cases](#)<sup>8</sup> are open for testing from 15/01/2024***

- ***Request Marginal lending***
- ***Automatic Marginal Lending***

***If the green light is not already given (as this functional domain is already opened), the CPTYs are advised to wait for the Green Light of their respective NCBs before starting the testing of these functional sub-domains and shall take note of open software defects and limitations in Annex 2.***

***Please note, functional sub-domains that are not yet open for testing in Monetary Policy Operations are listed in section 2.3.***

### 2.3 Category 2 - functionalities not open for CPTY testing

This category includes the functionalities which are not fully tested by the Eurosystem and hence not open for CPTY/CSDs/TPAs testing. The table below lists the functional domains/sub-domains that are not opened for CPTY/CSDs/TPAs testing. The timeline for opening the next set of functionalities for CPTY/CSDs/TPAs testing will be communicated in the next ECMS testing conditions document.

ECMS Functional domain	Timeline to open for testing in Pre-Prod
Marketable Assets	To be planned for – Relocation of collateral
Corporate Actions	To be planned
Credit Claims	To be planned for <ul style="list-style-type: none"><li>• CC domestic mobilisation (U2A and A2A)</li><li>• CC ratings (CC rating registration and CC ratings update)</li><li>• Cross border Credit Claim testing (via U2A and A2A)</li><li>• Testing with ECAI rating sources</li></ul>
Triparty Agents (TPA)	To be planned
Monetary Policy Operations	To be planned for <ul style="list-style-type: none"><li>•</li><li>• Interaction with the ECB's Tender Operations Platform (TOP)</li></ul>

<sup>8</sup> The Fundamental Test Cases relevant for this functional area - ECMS\_TC\_CPTY\_19 and ECMS\_TC\_CPTY\_20



ECMS Functional domain	Timeline to open for testing in Pre-Prod
	<ul style="list-style-type: none"> <li>• Liquidity Absorbing Operations (LAO)</li> <li>• Liquidity Providing Operations (LPO)</li> <li>• Management of Interest</li> </ul>
Pool Positions and projection	To be planned
Provision of Reference Data to T2S and Triparty (with Auto collateralisation testing)	To be planned
Statements and Reports	To be planned
Billing	To be planned
Non-Repudiation of Origin (NRO)	To be planned - The timeline for the activation of NRO solution in testing environment will be communicated to the CPTYS/CSDs/TPAs. All the CPTYS are advised to install the Ascertia Go-Sign Desktop (GSD), if not completed yet <sup>9</sup> .

### 3. Annexes

#### Annex 1 – ECMS functionalities

The following table list the different ECMS functionalities which will be delivered in a staggered approach for testing.

ECMS Functional Domains	Open for CPTYS/CSDs/TPAs	Functional Sub-domains <sup>10</sup>
Reference Data	<u>Yes, for details see section 2.2.1</u>	<u>Access Rights and User Creation, Reconciliation via GUI of asset accounts and pools configuration previously set-up done by the NCBs.</u>
Marketable Assets (MA)	<u>Partially,</u> <u>For details see section 2.2.2</u>	<u>Domestic mobilisation/demobilisation of MA, Cross-Border Mobilisation/demobilisation of MA (CCBM), cancellation of mobilisation/demobilisation of MA, Relocation of collateral.</u>
Global credit and collateral position	<u>Yes</u>	<u>Update of Maximum Credit Line value and Credit lines</u>

<sup>9</sup> The latest version of the Qualified Configurations has been included in the ESMIG UDFS for R2023.JUN. As part of the rollout of new version 6.9.20, the new client is also available for download in the certification environment (link below) starting from Tuesday, 14/11/2023.  
[https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/ESMIG\\_UDFS\\_R2023.JUN\\_clean\\_20230303.en.pdf](https://www.ecb.europa.eu/paym/target/consolidation/profuse/shared/pdf/ESMIG_UDFS_R2023.JUN_clean_20230303.en.pdf)

<sup>10</sup> The text that are underlined in the table are the functional elements that are open for CPTYS/CSDs/TPAs testing within the specific ECMS functionality.

ECMS Functional Domains	Open for CPTYs/CSDs/TPAs	Functional Sub-domains <sup>10</sup>
	<u>For details see section 2.2.3</u>	<u>Update of Credit freezing, Global credit position management, Margin call, Update of credit and collateral position due to the change of business date.</u>
Cash as collateral	<u>Yes, for details see section 2.2.4</u>	<u>Cash Collateral mobilisation/ Cash Collateral demobilisation (U2A/A2A/Automatic)</u>
Corporate Actions	No	Corporate Action Announcement/CA confirmation, CA instruction, CA movement/CA reversal/CA withholding tax management
Credit Claims	Partially, for details see section 2.2.5	<u>U2A domestic CC registration/CC update</u> U2A Domestic Credit Claims Mobilisation/CC rating/ CC Demobilisation U2A Cross border CC registration/Credit Claims Mobilisation/CC update/CC rating/ CC Demobilisation A2A domestic CC registration/Credit Claims Mobilisation/CC update/CC rating/ CC Demobilisation A2A Cross border CC registration/Credit Claims Mobilisation/CC update/CC rating/ CC Demobilisation
Tri Party Agents (TPA)	No	Cash proceed of a triparty corporate action/reports/decrease a TP transaction amount/removal of asset/ the reception of the files from TPA
Monetary Policy Operations	<u>Partially, For details see section 2.2.6</u>	<u>Request marginal lending/Automatic marginal lending/Interaction with TOP/Liquidity Absorbing Operations (LAO)/Liquidity Providing Operations (LPO)/Management of Interest</u>
Pool Positions and projection	No	Providing information to counterparties on pool positions
Provision of Reference Data to T2S and Triparty	No	Provision of Reference Data to Support Auto-collateralisation/ for TPA - Closelinks/Eligible Assets/prices
Statement and Reporting	No	Generation and reception of statements of holdings, transactions, and pending transactions (semt.002, semt.017 and semt.018) for ECMS internal asset accounts.
Billing	No	Interaction with CSDs and TPAs

## Annex 2 – Open Defects

### Reference Data – 1 Medium and 1 Low Priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
114858	Medium	If there is a duplicity of users in the data base the error message that is shown in the screen should be changed, in order to talk about ECMS System User Reference and not about Security Id	26/01/2024
90775	Low	It's not possible to edit a technical address. As workaround it can be deleted and created again	26/01/2024

### Marketable Assets – 3 medium priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
<b>116496</b>	<b>Medium</b>	<b>Marketable asset instructions cannot be saved if the account owner of the external cash account (CLM MCA) is different than the account owner of the internal asset account linked to it</b>	<b>09/02/2024</b>
<b>116192</b>	<b>Medium</b>	<b>The ECMS middleware is not able to process the files received from T2S through a head.002 if two or more message types are received within the file.</b>	<b>09/02/2024</b>
115715	Medium	Instruction confirmation (sese.025) reprocessing is rejected due to error Access Rights#AARR# AARR001 The user is not authorized to send the message.	26/01/2024

### Credit Claims – 1 High; 9 Medium and 1 Low priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
<b>117219</b>	<b>Medium</b>	<b>When Obligor report generation is executed and a CCR is created manually The obligor report is not generated and the following error is traced: Expected behaviour: Obligor report</b>	<b>09/02/2024</b>

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
		<b><i>should be generated in case of CCR creation via A2A or U2A having instruction status "Waiting Manual intervention".</i></b>	
<b>117155</b>	<b>Medium</b>	<b><i>Credit Claim File - 4 Eyes validations - action remove Draft missing</i></b>	<b>09/02/2024</b>
<b>116731</b>	<b>Medium</b>	<b><i>ECMS should not aggregate outstanding amount when mobilizing demobilizaing twice the same credit claim id under the screen CC Position</i></b>	<b>09/02/2024</b>
<b>116382</b>	<b>High</b>	<b><i>The number of entity records received from RIAD varies greatly (from 17 to over 75.000) despite the number of entities in RIAD being consistently over 75.000</i></b>	<b>09/02/2023</b>
<b>116292</b>	<b>Medium</b>	<b><i>CC - Instruction Type usage in the context of the Rating Registration and rating update</i></b>	<b>26/01/2024</b>
<b>116258</b>	<b>Medium</b>	<b><i>CC - Automatic creation of ICAS rating when multiple reception of ICAS FULL file same day.</i></b>	<b>26/01/2024</b>
116124	Medium	CC - Cross border Credit claim Account - check and selection	To be confirmed
115983	Medium	CCFile stored after cut off time, not processed on d+1	26/01/2024
115861	Low	CC - Cross border Credit claim Account - check and selection	To be confirmed
112827	Medium	Re-MOB after DEMOB not possible, fails with a PLAM error	26/01/2024
112611	Medium	After the ECMS rejected a CCR because of a wrong Debtor Code Type, the processing report sent in A2A mode is empty with no error feedback	26/01/2024

### Global Credit and Collateral Positions – 3 High and 3 medium priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
<b>116357</b>	<b>High</b>	<b><i>Corrupted Pool position - empty pool movement blocked all new events coming later.</i></b>	<b>26/01/2024</b>
<b>116355</b>	<b>Medium</b>	<b><i>Some settlement confirmations cannot be processed and some pools are not correctly valued in MegaLend.</i></b>	<b>09/02/2024</b>
115887	Medium	MLOR instruction stuck in status Waiting Payment Confirmation	26/01/2024
115705	High	GCCP - wrong credit lines amounts and Excess ECL in case of AML maturity	26/01/2024
114557	Medium	update of RCL to negative values blocking any new event on the pool	09/02/2024
111709	High	when the counterparty created a CF instruction after the EoD, the instructions went to status “queued” and in the morning of the next day they settled and not rejected	26/01/2024

### Cash as Collateral – 2 Medium priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
<b>117236</b>	<b>Medium</b>	<b><i>the regular payment (pacs.010) connected to a cash collateral mobilization is not displayed on screen &lt;Display instruction&gt;. Error 2: outgoing pacs.009 and the incoming pacs.002 are not displayed on screen &lt;Cash collateral display&gt;.</i></b>	<b>09/02/2024</b>
<b>117228</b>	<b>Medium</b>	<b><i>The outgoing pacs.002 sent to a counterparty after the CLM rejection on a pacs.010 triggered by the ECMS operational day in the context of the automatic mobilisation of cash as collateral does not contain the reason and the additional information</i></b>	<b>09/02/2024</b>

### Monetary Policy Operations – AML/MLOR – 1 High; 1 Medium and 1 Low priority defects

Problem ID	Priority	Business Description/Summary/testing limitation	Target delivery date
<b>116927</b>	<b>Medium</b>	<b>MLOR interest was paid but still shown as credit as negative</b>	<b>09/02/2024</b>
<b>116745</b>	<b>Low</b>	<b>Error when trying to view the AML Operation notification.  Screen: Display Standing Facilities Instruction &gt;&gt; View (instruction) &gt;&gt; notifications &gt;&gt; View message Error message appears when clicking on “View message”. (created from Incident 116712)</b>	<b>09/02/2024</b>
<b>101942</b>	<b>High</b>	<b>Cash Position - Cash position wrongly updated when recycle the MLOR blocked to ACL check)</b>	<b>To be confirmed</b>

### Annex 3 – Operational day schedules

ECMS Process/event	ECMS Standard day schedule (Cut Off Time/start of process in CET)	ECMS Release Day schedule (Cut off/start of the process in CET)
<b>Pre-Production environment</b>		
Credit Claims Mobilisation and Demobilisation	15:15:00.000	13:45:00.000
Credit Claims Mobilisation and Demobilisation U2A	15:15:00.000	13:45:00.000
Fixed Term Deposits and OMO	15:15:00.000	13:45:00.000
Cash Collateral	15:15:00.000	13:45:00.000
Credit Freezing	15:15:00.000	13:45:00.000
Externally Managed Collateral	15:15:00.000	13:45:00.000
Max CreditLine	15:15:00.000	13:45:00.000
Mobilisation and Demobilisation	15:15:00.000	13:45:00.000
NCB Rating Flow	17:30:00.000	17:30:00.000
Triparty reports and request of demobilisation	15:15:00.000	13:45:00.000
MLOR For Counterparty	15:45:00.000	15:15:00.000
MLOR For NCB	16:10:00.000	14:40:00.000
CLM	16:15:00.000	14:45:00.000
<b>Change of business day:</b>	<b>16:15:00.000</b>	<b>16:15:00.000</b>