

ECMS | Basic training module

Deutsche Bundesbank

Frankfurt am Main, November/December 2022
(updated 2023-03-21)

| Title | ECMS Basic training module |
|--------------------------|---|
| Objective | General introductory training on the ECMS application: <ul style="list-style-type: none">▪ Imparting basic knowledge and content as well as background information▪ Providing support materials and condensed knowledge▪ Preparing for the specific transfer of knowledge to ECMS users |
| Contents | ECMS Basic training module <ul style="list-style-type: none">▪ ECMS Introduction – 30 minutes▪ ECMS Key functionalities – 60 minutes▪ ECMS Important documents – 15 minutes▪ Q&A – 15 minutes |
| Target group | Counterparties who work directly with the ECMS and counterparties who do not work directly with the ECMS themselves but would like to improve their understanding of this topic |
| Prior knowledge | No prior knowledge required (participants in specialist ECMS training courses should have completed the ECMS basic training module) |
| General framework | <ul style="list-style-type: none">▪ Virtual training course (online)/hosted via WebEx▪ 120 minutes/maximum 500 participants/in German |

Training materials

- We will provide you with the following training materials for this event:
Presentation slides # ECMS video(s).
- For data protection reasons, the training course will NOT be recorded.

Q&A

- Please feel free to ask questions or add to the discussion as we go along. A separate Q&A session will also be held at the end of each training section.
- If you have any questions or wish to say something, please use the chat function.

Training feedback

- When you were invited to this event, you were sent a link to a standardised and anonymised feedback form.
- Once the event has ended, please take a few moments to fill out the form and give us honest feedback on this training course. Thank you!

1. **ECMS | Introduction**
2. ECMS | Key functionalities
3. ECMS | Important documents

1. Introduction

ECMS (in a nutshell)

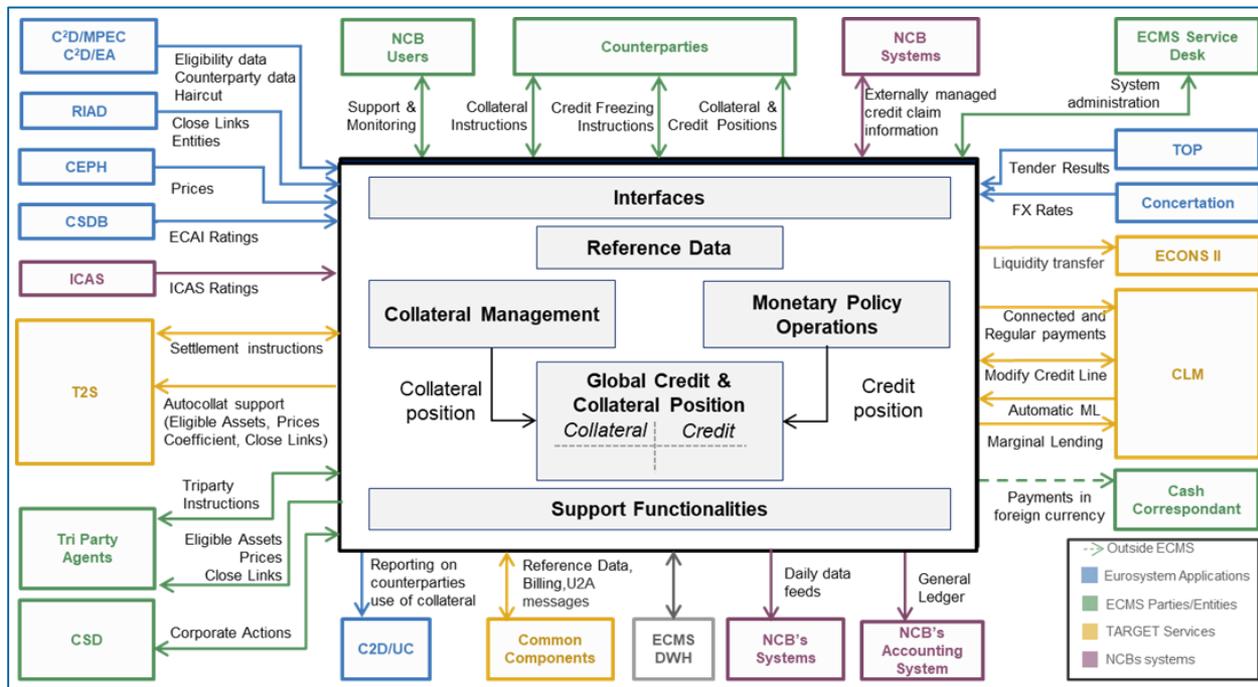
- The Eurosystem Collateral Management System (**ECMS**) is a unified, Europe-wide service for **managing assets used as collateral** in Eurosystem credit operations.
- The **launch** (go-live) of the ECMS is scheduled to take place as a “big bang” **on 8 April 2024**.
- The ECMS will (for the most part) replace the **20 different** collateral management systems (CMSs) run by the national central banks (NCBs) that currently exist with **one Eurosystem-wide system**.
- In principle, the existing **business and legal relationships** between **NCBs** and **their counterparties** will remain **unchanged**.
- **Access to the ECMS**, together with the other TARGET Services, will be provided to ECMS actors via the Eurosystem Single Market Infrastructure Gateway (**ESMIG**).



1. Introduction

ECMS (in a nutshell)

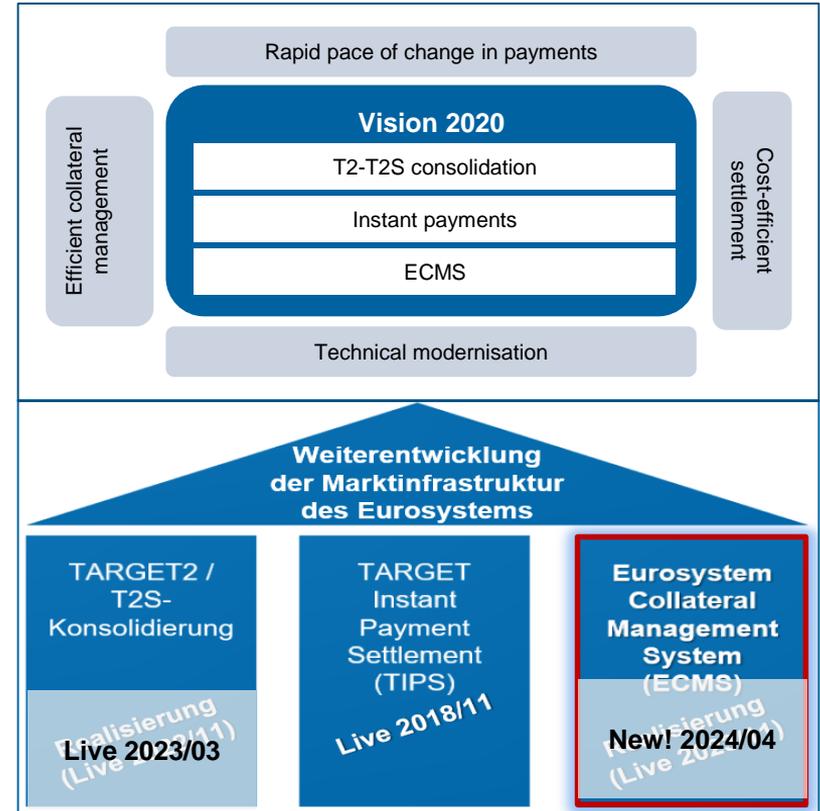
- How the ECMS interacts with the outside world: the ECMS interacts with many other services in order to provide its functions to Eurosystem NCBs and their counterparties.



1. Introduction

ECMS project (starting position for the ECB)

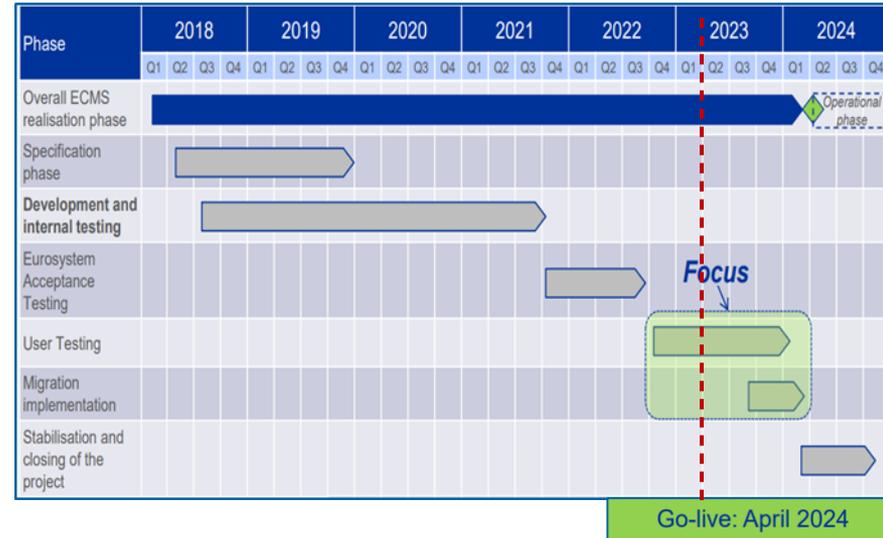
- At its **meeting on 6 December 2017**, the **ECB Governing Council** gave its approval for the Eurosystem Collateral Management System (ECMS) to be realised.
- Together with **TIPS** and the **TARGET2/T2S consolidation project**, the **ECMS** is an additional project launched by the Eurosystem in 2017 to enhance the market infrastructure.
- The projects, subsumed under the title “**Vision 2020**”, are designed to strengthen the Eurosystem’s market infrastructure, leverage potential and deepen the integration of the European financial market.
- In future, TARGET Services will include:
 - T2**: Settlement of individual payments
 - T2S**: Securities settlement
 - TIPS**: Service for instant payments
 - ECMS**: Collateral management service



1. Introduction

- The ECMS project is currently in the **realisation phase**, which will run until **Q4/2024**, as a stabilisation phase of several months is planned after the ECMS goes live on **8 April 2024**.
- **Local NCB adjustments** must be completed prior to the start of user testing.
- Selected **user testing** milestones:
 - 17 October 2022: Start of NCB connectivity testing (EAC)
 - 16 January 2023: Start of NCB testing (EAC)
 - 13 March 2023: Start community connectivity testing (pre-prod)
 - 29 May 2023: Start of community user testing (pre-prod)
 - 16 February 2024: End of community user testing (pre-prod)
- **Migration activities** will commence during the user testing phase (as test activities) and require the active involvement of the NCBs and their “communities”.

ECMS project (timeline)



- When the ECB decided to realise the ECMS, it became necessary for the Bundesbank (BBk) to set up an internal connectivity project.
 - **This project is called ENzIAN.**
 - In the absence of ENzIAN, it would not be possible to use the ECMS as required from 2024 onwards and thus to implement the single monetary policy in a uniform manner.
- **What the project includes**
 - Applications
 - Process design
 - Migration and testing
 - Training events
 - Communication with the ECB, participating central banks, central securities depositories, customers, service providers

- In **future**, the management of marketable assets and collateral accounts held in connection with Eurosystem credit operations will be carried out **in the ECMS**. The functionalities of the **Collateralmanagement Access Portal (CAP)** that are currently used to this end by counterparties will then no longer be used for these purposes.
- As before, the BBk will exclusively manage **domestic credit claims** via its national application **MACCs** (Mobilisation and Administration of Credit Claims).
- Other external third parties affected by the introduction of the ECMS are:
 - the **Clearstream group** as an authorised central securities depository and triparty agent, whose customer is the BBk and which connects to the ECMS;
 - **potential service providers** providing services for monetary policy counterparties and/or the BBk to connect to the ECMS.
- **These groups** – both internal and external – need to be prepared for the new ECMS application.

1. Introduction

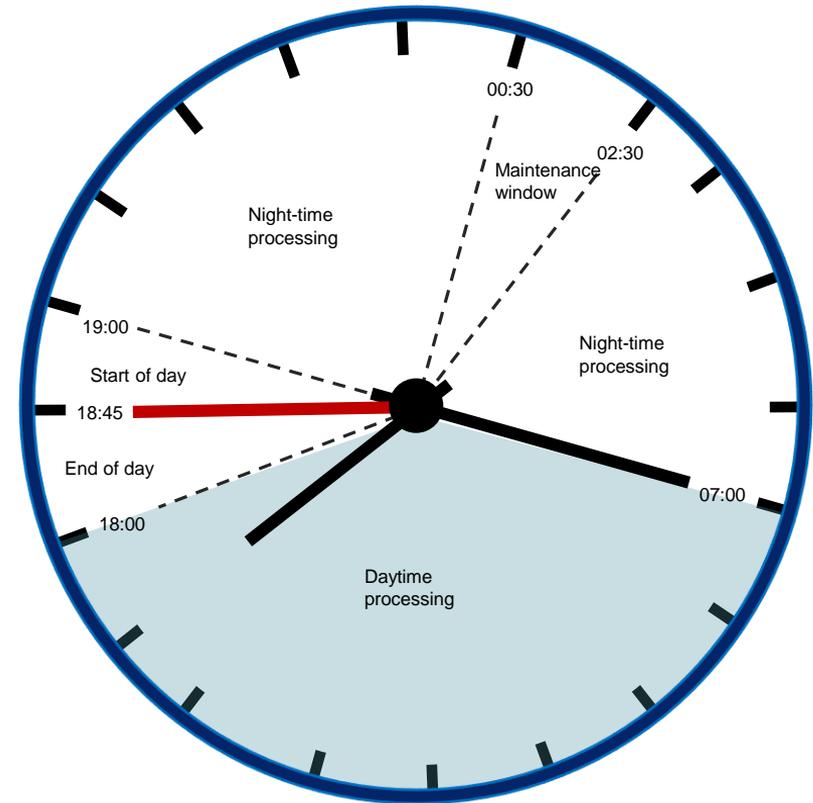
ECMS (operating hours)

Business days

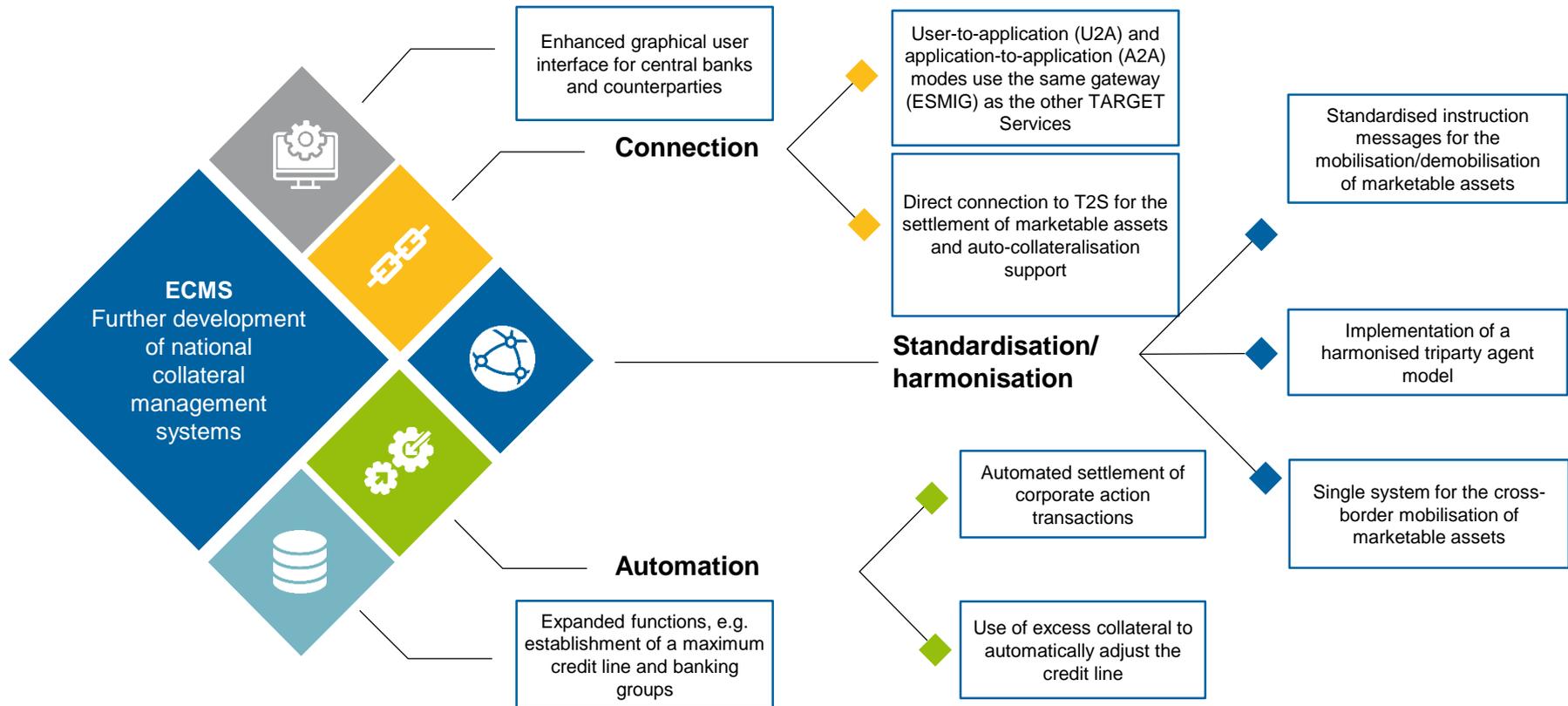
- Monday to Friday
- Public holidays and operating days as defined in Central Liquidity Management (CLM) calendar
- Start of ECMS business day depends on CLM

The **business day** (CET/CEST) is divided into:

- Start of day (18:45-19:00)
- Night-time processing (19:00-07:00)
- Maintenance window (00:30-02:30)
- Daytime processing (07:00-18:00)
- End of day (18:00-18:45)



1. Introduction

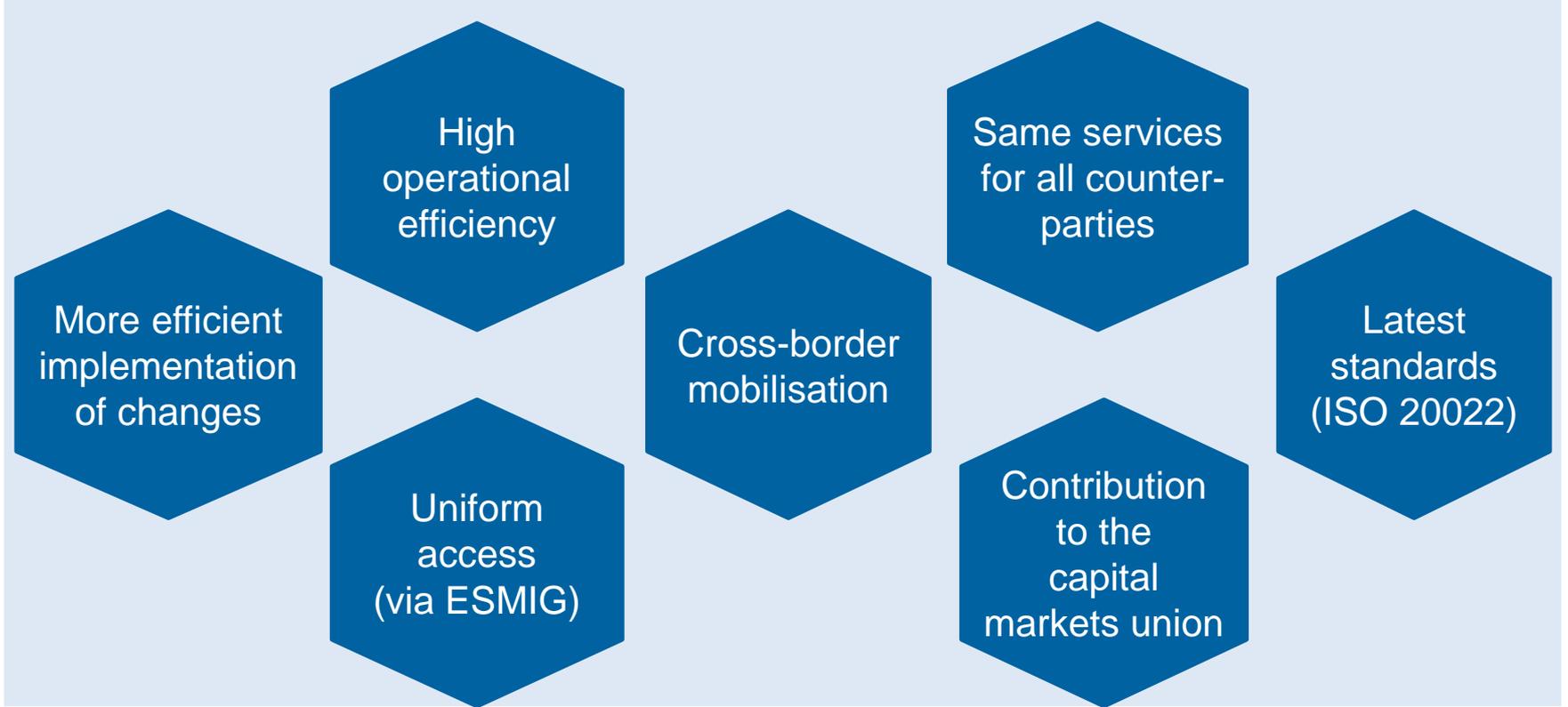


Once the ECMS goes live on 8 April 2024, the following BBk applications and procedures will remain unchanged:

- **Collateralmanagement Access Portal (CAP)**
 - Will still be used for non-monetary collateral pools.
- **Open Market Tender Operations System (OMTOS)**
 - The national bidding system for open market operations via tender will remain unchanged.
- **Mobilisation and Administration of Credit Claims (MACCs)**
 - For managing domestic credit claims; cross-border settlement of credit claims will be carried out in the ECMS.

1. Introduction

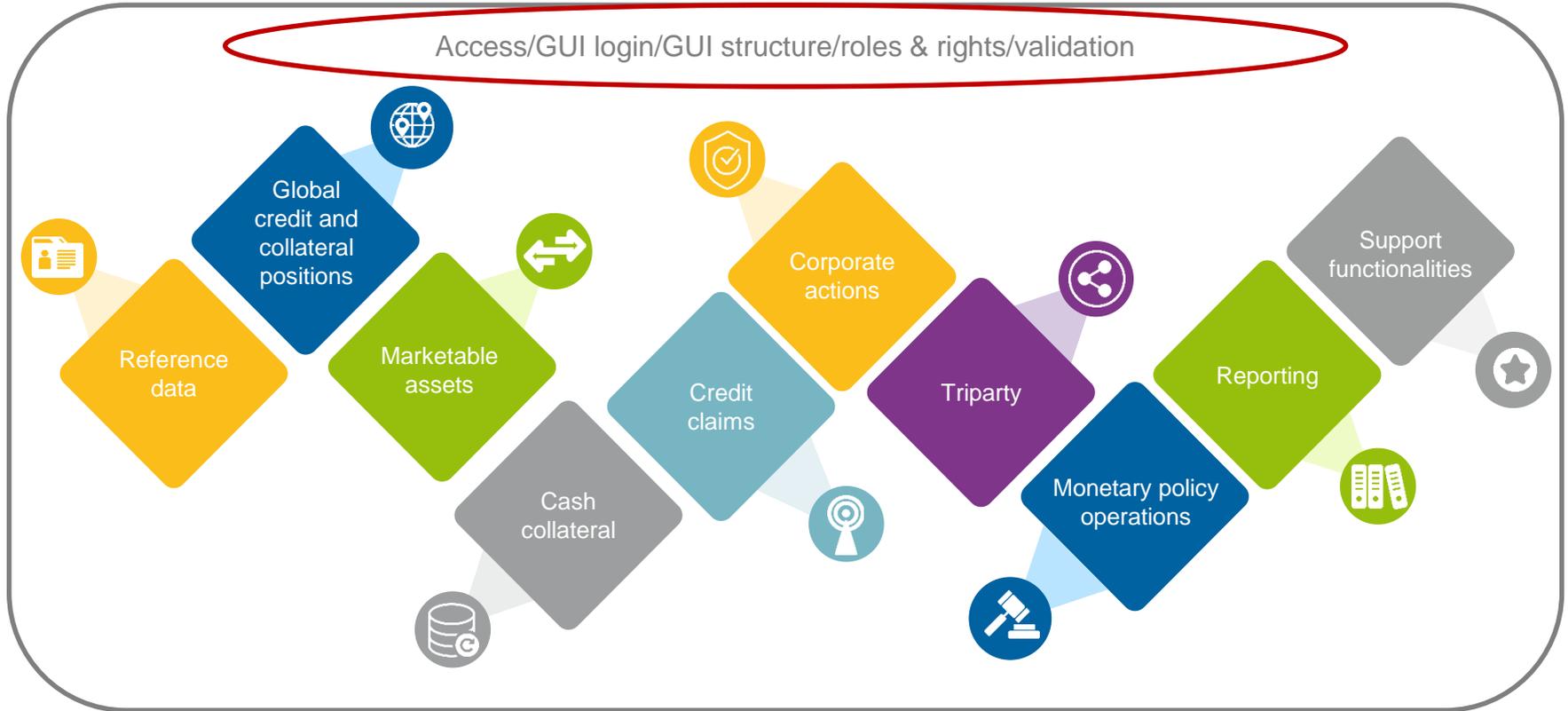
ECMS (advantages/selection)



If you have any questions or wish to say something,
please use the chat function.



1. ECMS | Introduction
2. **ECMS | Key functionalities**
3. ECMS | Important documents



2. Functionalities

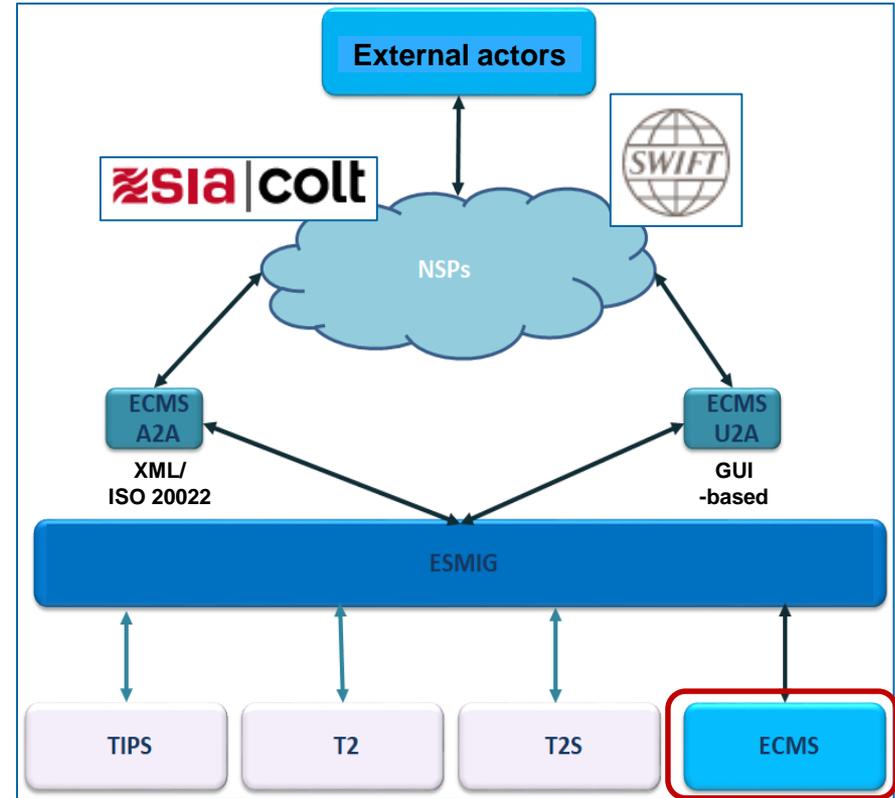
Current access | CAP

- Communication is internet-based and takes place in U2A mode via **CAP** (Collateralmanagement Access Portal) or A2A mode via **SWIFT/XML**.

Future access | ECMS

- Access to the ECMS will be via **ESMIG** (Eurosystem Single Market Infrastructure Gateway).
- ESMIG** provides ECMS actors with a single access point to **all TARGET Services** (ECMS, T2, T2S, TIPS and potential future services).
- ECMS actors can connect to ESMIG in U2A or A2A mode via an **NSP** (Network Service Provider/**SWIFT** or **SIA-Colt**).
- A2A** communication takes place via XML messages, while **U2A** access is provided via the graphical user interface (ECMS GUI).
- ECMS actors that are not connected via an NSP can, in principle, use **third-party** access.

Access (NSP & ESMIG)



A2A mode

Application-to-application (A2A) communication allows external systems to interact directly with the ECMS via XML messages in accordance with the ISO 20022 standard (= application-oriented).

- ECMS actors interacting in A2A mode have to be **ISO 20022 compliant**.
- **All** communication between CSDs, TPAs and the ECMS takes place in A2A mode; counterparties that implement A2A access always also receive U2A access.

U2A mode

User-to-application (U2A) access enables screen-based online activities to be executed manually by ECMS actors via a graphical user interface (GUI) (= user-oriented).

- Only ECMS operators, NCBs and counterparties can access the ECMS in U2A mode. CSDs and TPAs **do not** have U2A access.
- Provides counterparties with access to **all ECMS functions**, in particular for monitoring and managing their collateral pools.

- On the **ESMIG portal login screen**, the user is requested to authenticate themselves using a **certificate*** and a **password** (session PIN).
- Both pieces of information are only required once at the beginning of every session and the authentication remains active for the entire session.
- The ESMIG portal guides the person accessing the ECMS to:
 - **choose the service** among the authorised services accessible by at least one user ID;
 - **choose the component/application** the authorised components/applications accessible by at least one user ID;
 - **choose the user** authorised to access the selected application.
- After this process, the ESMIG portal will redirect the user to the ECMS **homepage** (if selected).

* The user must first use the smart card, USB token or remote Hardware Security Module (HSM) containing the certificate for accessing ESMIG. The PIN code displayed on the token must be entered by the user. The user must have saved the ESMIG digital certificates on their PC. The same certificate can be used for all TARGET Services. If desired, the same certificate can be used by multiple users.

2. Functionalities

GUI login (U2A)

The screenshot shows the ECMS GUI login process (U2A) with numbered callouts 1 through 6. Callout 1 points to a certificate selection dialog. Callout 2 points to the 'Choose a Service' step. Callout 3 points to the 'Choose Component or Application' step. Callout 4 points to the 'Choose a System User' step. Callout 5 points to the 'Submit' button. Callout 6 points to the ECMS 'Collateral and Credit' module page.

1 Zertifikat für Authentifizierung wählen
Für die Website esmig-cert-iam.esmig.com | sign.swift.com443 sind Ihre Anmeldedaten erforderlich:

SWIFT
O4504G7_esmig
9.6.2022

Zertifikatsinformationen OK Abbrechen

Welcome | 2022-11-09 11:43
Stage: EAC | Version 1.0.4 | Go Sign Client: SU ↓ MU

Services List

Choose an Application and your System User Reference

2 Choose a Service

T2 T2S TIPS ECMS

3 Choose Component or Application

ECMS

4 Choose a System User

ECMS ACCESS

5 Submit

6 Collateral and Credit

- After logging in, the user is taken to the ECMS module “Collateral and Credit” by default (ECMS homepage).

* A system administrator must be created for each NCB before the GUI is accessed for the first time. The respective NCB admin creates the users. These users can then access the GUI. Only registered users have ECMS GUI access.

2. Functionalities

GUI login (U2A)

- **Components/applications via ESMIG portal**
 - Billing (BILL)
 - Business Day Management (BDM)
 - Central Liquidity Management (CLM)
 - Common Reference Data Management (CRDM)
 - Data Warehouse (DWH)
 - Enhanced Contingency Solution (ECONS II)
 - **Eurosystem Collateral Management System (ECMS)**
 - Legal Archiving (LeA)
 - Real Time Gross Settlement (RTGS)
 - TARGET Instant Payment Settlement (TIPS)
 - TARGET2-Securities (T2S)

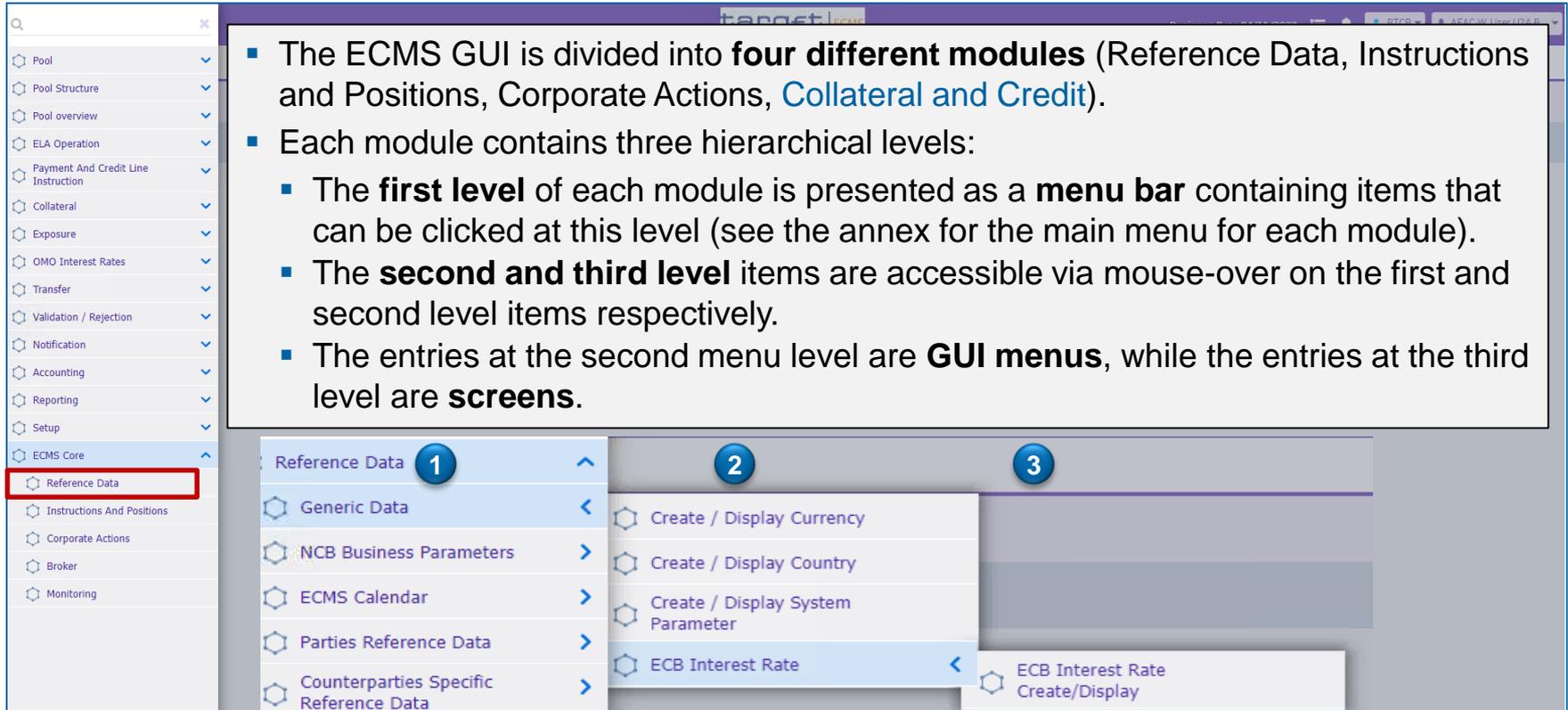
The screenshot displays the TARGET services GUI login (U2A) interface. At the top, the 'target services' logo is visible. Below the logo is a banner image with the text 'Service' and 'Choose an Application and yo'. The main content area is divided into two sections:

- Choose a Service:** This section contains four radio buttons with gear icons: T2, T2S, TIPS, and ECMS. The ECMS option is selected, indicated by a green checkmark.
- Choose Component or Application:** This section contains a single radio button with a gear icon and a checkmark, labeled ECMS. This section is highlighted with a red border.

At the bottom of the form, there is a blue 'Submit' button.

2. Functionalities

GUI structure (modules & menu structure)



- The ECMS GUI is divided into **four different modules** (Reference Data, Instructions and Positions, Corporate Actions, **Collateral and Credit**).
- Each module contains three hierarchical levels:
 - The **first level** of each module is presented as a **menu bar** containing items that can be clicked at this level (see the annex for the main menu for each module).
 - The **second and third level** items are accessible via mouse-over on the first and second level items respectively.
 - The entries at the second menu level are **GUI menus**, while the entries at the third level are **screens**.

2. Functionalities

GUI structure (screen structure)

- Each screen of the ECMS GUI follows the same layout. This contains a **header** and a **content area**. A user can have up to 10 tabs (screens) open at the same time.

The screenshot illustrates the ECMS GUI structure, divided into a header and a content area.

Header: A blue bar at the top containing a menu icon, home icon, screen bar/menu name (level 2), and information panel (user). The user name "User" is visible in the top right corner.

Content Area: The main area below the header, containing the screen name (level 3), input/select fields, minimise icon, and button bar.

The content area is titled "Search: Parties" and contains the following search criteria:

- RIAD Code: == [dropdown]
- Party Short Name: == [dropdown]
- Is Active: == [dropdown]
- Creation Date: == [dropdown] [calendar icon]

A dropdown menu is open for the "Is Active" field, showing the following options:

- True
- False

Buttons for "Create" and "Search" are located at the bottom right of the search area.

Below the search area, there is a section titled "Latest searches" with a table structure:

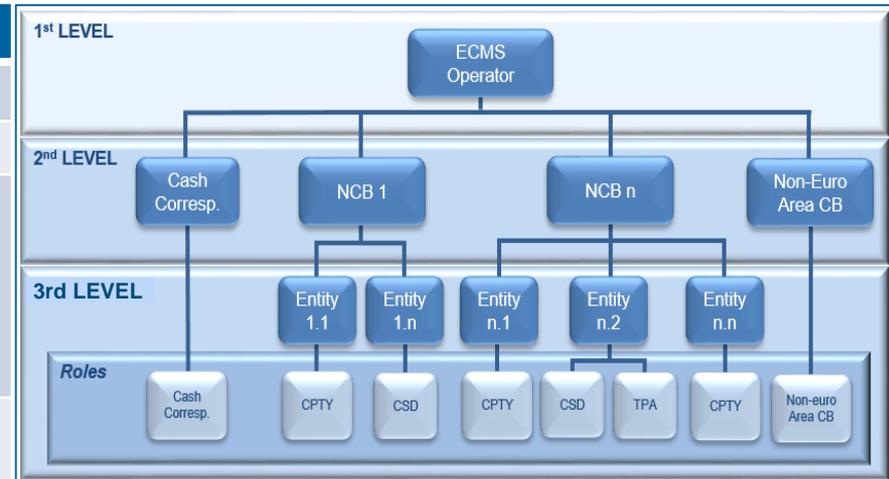
| Date | Criteria |
|------|----------|
| | |

2. Functionalities

Roles & rights (basic concept)

- Each legal entity interacting with the ECMS is defined as an **ECMS party**. Each party belongs to one of the following four party types:
 - ECMS operator, NCB, ECMS entity, non-euro area CB** (see the table on the left-hand side)
- The relationships between the parties are determined by a hierarchical party model based on a three-level structure for creating the parties. Once these parties have been created, one or multiple specific business roles are assigned to each party (see the chart on the right).

| ECMS party | Legal entity |
|------------------|--|
| ECMS operator | <ul style="list-style-type: none"> The party operating the ECMS (4CB). |
| NCB | <ul style="list-style-type: none"> National central banks of the Eurosystem |
| ECMS entity | <ul style="list-style-type: none"> ECMS entities may have one or more of the following business roles: <ul style="list-style-type: none"> counterparty; central securities depository (CSD); triparty agent (TPA); cash correspondent. |
| Non-euro area CB | <ul style="list-style-type: none"> Non-Eurosystem central bank participating in the CCBM Out Agreement. |



- An **ECMS role** is a set of privileges (rights) granting the holder of that role the ability to trigger an ECMS user function. These user roles are predefined in the ECMS.
- Each system user* is assigned at least one of these **predefined user roles**. The resulting rights concern **business functions** that the user can perform in either **read-only** or **execution** mode.
- For each **NCB**, the ECMS operator assigns the role of **administrator** to a system user it has created. This administrator can create **additional system users** and give these their own rights via the predefined **U2A and A2A roles for NCBs**.
- The NCB administrator also creates at least one system user in the ECMS in the role of an **administrator** for each (monetary policy) counterparty. This administrator can create **additional system users** for their organisation and give these their own rights via the predefined **U2A and A2A roles for counterparties**.
- The roles can be in either **2-eyes** or **4-eyes** mode.

* As a general rule, system users can be:

- In the case of U2A communication ==> an employee, e.g. of a counterparty or an NCB
- In the case of A2A communication ==> an application, e.g. of a counterparty or an NCB

2. Functionalities

Roles & rights (counterparties)

| Role (user) | Description (simplified) | Variant |
|--|---|--------------------------|
| Counterparty (U2A) Party Administrator | Creates and manages the counterparty's users/roles/groups | Read only / Execution |
| Counterparty (U2A) Marketable (De)Mobilisation Asset | Monitors and manages the counterparty's (de)mobilisation instructions for marketable assets | Read only / Execution |
| Counterparty (U2A) Open Market Operations | Monitors the counterparty's open market operations | Read only |
| Counterparty (U2A) Standing Facilities | Manages or monitors the counterparty's marginal lending ("on request" and "automatic") | Read only / Execution |
| Counterparty (U2A) Credit Line | Sets up and manages the counterparty's own maximum credit line | Read only / Execution |
| Counterparty (U2A) Pool Position Management | Monitors the counterparty pool: user can see the pool overview, the pool valuation and pool position | Read only |
| Overall, more than 20 different ECMS user roles are defined for counterparties. | | |

2. Functionalities

Digital signature (NRO) for critical transactions

- In order to ensure non-repudiation of origin (NRO) for **critical transactions***, the use of a digital signature has been implemented for specified screens.
- This means that the user will be asked to enter a **PIN code** for signature purposes whenever an instruction is initiated. With the entry of the PIN, the ECMS attaches a **digital signature** to the instruction entered by the user.
- Users will have to install the **Ascertia Go>Sign Desktop Client** on their workstation in order to be able to use ECMS via U2A for screens subject to a digital signature.
- Ascertia is the unique **U2A NRO solution for TARGET Services**. Only one version of the Go>Sign Desktop Client will thus be used and distributed across the different TARGET Services.

Validation (U2A)



Ascertia Go>Sign Desktop

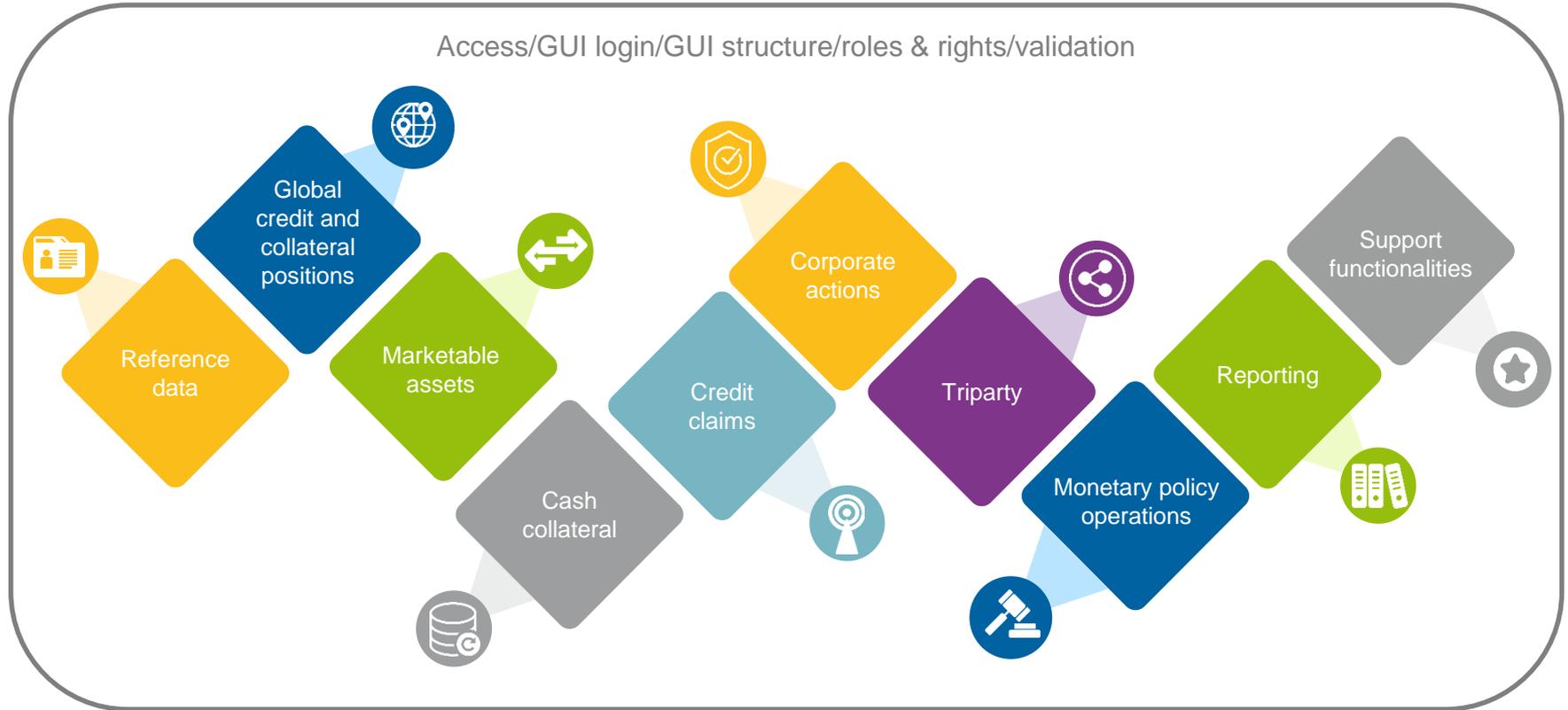
Ascertia Scope go-live*

- 5 U2A instructions
- 5 UHB screens
- **New: April 2024**

Ascertia Scope overall

- 177 U2A instructions
- 135 UHB screens
- **New: Q4/2024**

- * (De)mobilisation of a marketable asset
- * Deletion of a (de)mobilisation of marketable asset
- * Counterparty instruction for a corporate action transaction
- * Deletion of counterparty instruction for a corporate action transaction
- * (De)mobilisation of a credit claim





Where?

- Reference Data module



How?

- Reference data can be created, displayed and edited
- Some reference data can only be created/processed by the NCBs, e.g. ECMS parties



What?

- Maintenance of reference data:
 - ECMS parties and access rights
 - Accounts & pools
 - Marketable assets
 - Settlement possibilities & T2S relocation
 - Counterparty-specific reference data
 - ECMS calendar
 - ECB interest rate
 - Interfaces
 - NCB business parameters



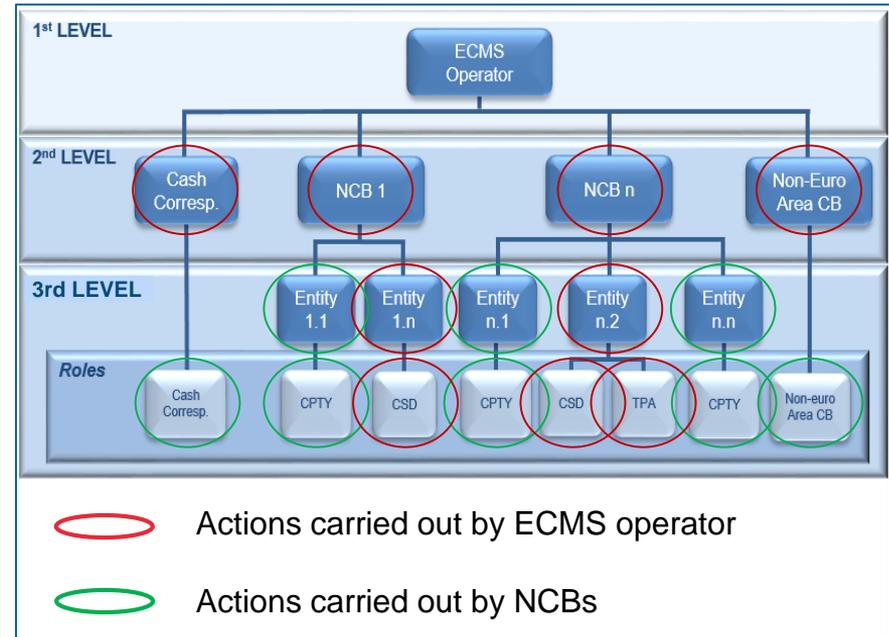
Special features

- Certain data (e.g. account numbers of MCAs and T2S DCAs) are compared against the Common Reference Data Management (CRDM)

2. Functionalities

- The **ECMS operator** is responsible for:
 - **creating** each party at level 2;
 - **creating** and **assigning business roles** to **CSDs** and **TPAs** on behalf of NCBs.
- The **NCBs** are responsible for:
 - **creating** their **counterparties**;
 - **assigning business roles** to the ECMS entities **counterparty**, **cash correspondent** and **non-euro area CB**.
- The **counterparties** are responsible for:
 - for example, creating and managing their own users/roles/groups.

Reference data (details)



2. Functionalities

Reference data (look & feel)

- “Edit User” screen to create a user

The screenshot displays the 'Edit: User' interface. At the top left, it says 'Edit: User' with a refresh icon. Below this, there are three main input fields: 'ECMS System User Reference', 'Name', and 'Is Active'. The 'Is Active' field has a checkmark icon. Underneath these fields, there are four sections, each with a purple button: 'User Properties [0]', 'Groups [0]', 'Security Role [0]', and 'User Multi Tenancy [1]'. At the bottom left, there is a green 'Reset' button with a circular arrow icon. At the bottom right, there are two buttons: a green 'Save' button with a checkmark and a blue 'Cancel' button with an 'X' icon.



Where?

- Collateral and Credit module



How?

- Maximum credit line
- Margin calls
- Multi-pooling and transfer



What?

- Managing pools and counterparty asset accounts



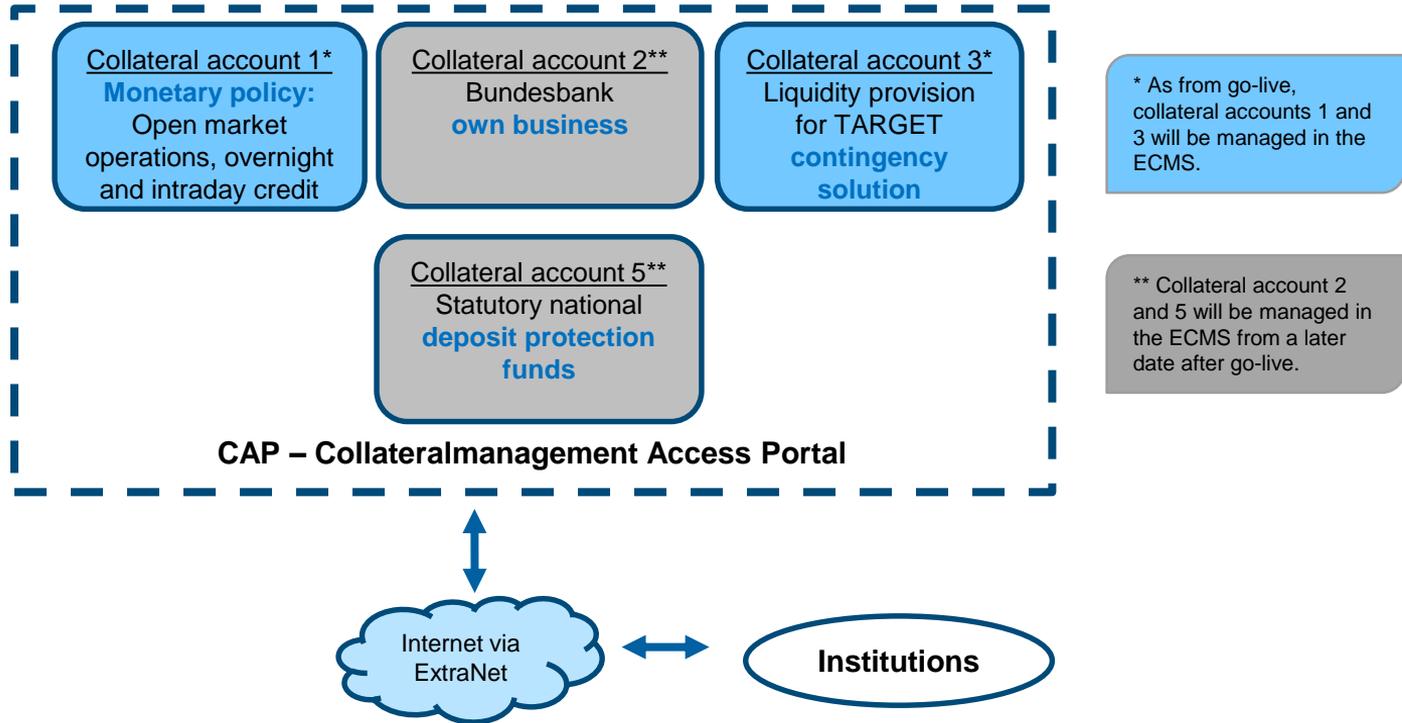
Special features

- Externally managed collateral
- Pool projection

2. Functionalities

Global credit and collateral positions (details)

Collateral account structure in OBS (as at 20 March 2023)



Structure of accounts in connection with ECMS

Internal asset accounts

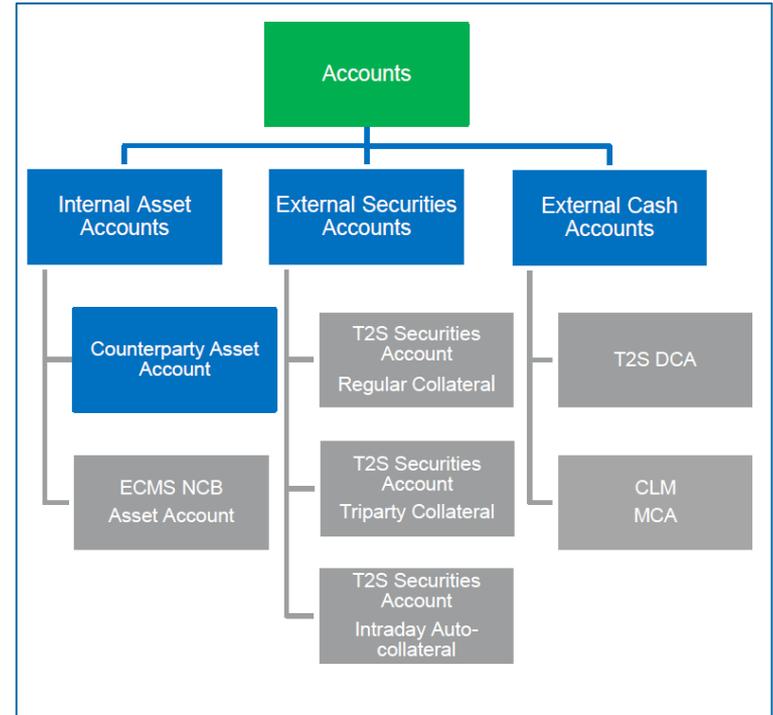
- Are opened and managed directly in the ECMS to bookkeep collateral positions. These include the **counterparty asset account**.

External securities accounts

- External securities accounts** are used for the settlement of **marketable asset** instructions.
- These are opened or registered in the books of central securities depositories and configured in T2S.
- These are accounts that exist outside the ECMS.

External cash accounts

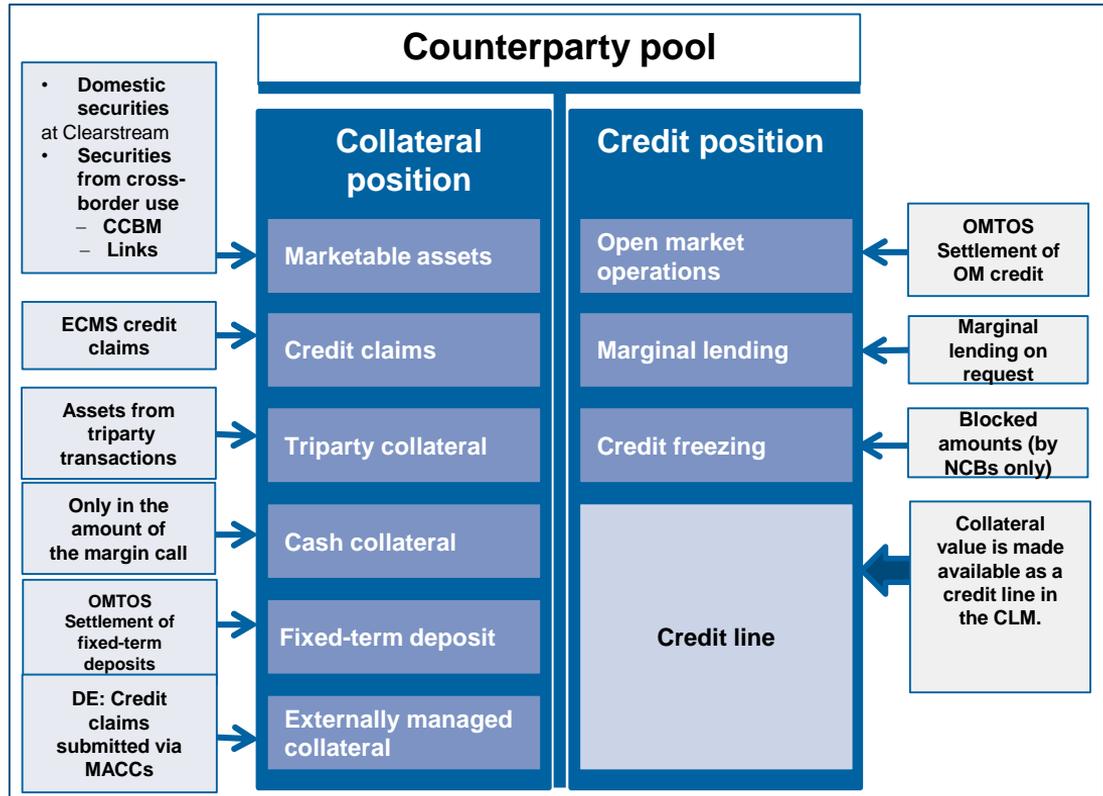
- Required for the settlement of cash operations and the provision of intraday liquidity and operated by **external systems such as TARGET Services**.
- External cash accounts (e.g. CLM MCA = Central Liquidity Management Main Cash Account) are not opened directly in the ECMS but set up as reference data.
- The accounts are used to send payment instructions, but do not record their cash balance.



2. Functionalities

- The **counterparty's pool** varies **depending** on whether the counterparty has a **credit line** or not. It consists mainly of two blocks:
 - The **collateral position** is the sum of all the individual collateral positions configured for the counterparty's pool.
 - The **credit position** is the sum of the operations in the counterparty's pool.
 - If the counterparty has a **credit line**, a third block is available within the credit position. It is used to display the amount that can be used as intraday liquidity.

Global credit and collateral positions (details)



2. Functionalities

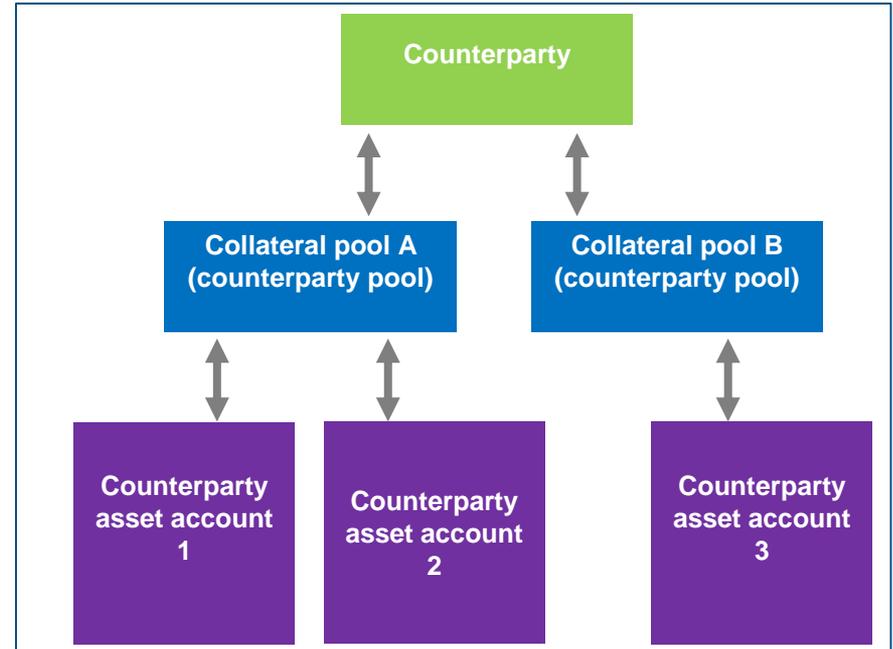
Global credit and collateral positions (details)

Counterparty asset accounts

- The number is determined by the NCB and the type of collateral mobilised.

Collateral pools (counterparty pools)

- Multi-pooling functionality, but only one pool can be used for collateral under the Eurosystem's monetary policy (Eurosystem credit operations). The pool provides a comprehensive overview of collateral and credit positions as well as the credit line.



2. Functionalities

Global credit and collateral positions (look & feel)

- “View: Pool” screen showing the details of a pool

List Pools Overview > View : Pool

POOL GENERAL DETAILS

| | | | |
|---|--|---|-------------------------------------|
| Pool Identifier POOL00000000185 | Pool Reference POOLREFERENCES | Counterparty FR18129 | RTGS ACCESS No |
| Counterparty CLM Main Cash Account ISAEFRPPAC1 | NCB CLM Main Cash Account CBXXTFC001X | Contingency Cash Account | CB Contingency Cash Account |
| Absolute Credit Limit | NCB MaCL 99,999,999,999 | Counterparty Maximum Credit Line Value 0 | |

LAST MODIFICATION DETAILS

| | | | |
|--|---|--|----------------------------------|
| Update Date 18/05/2022 21:04:48:129 | Modification Reason CreditClaimValuation | Last Movement Details POOLMVT00087787 | Amount 0 |
| Pool Variation Amount 0 | MCL Online 0 | CP Online 0 | App Reference POOLPOS00077124 |
| Position Date 19/05/2022 | Last Cash Collateral Interest Calcul Date | Last Cash Collateral Mobilization Date | |

2. Functionalities

Marketable assets (overview)



Where?

- Instructions and Positions module



How?

- Validation/evaluation
- T2S settlement



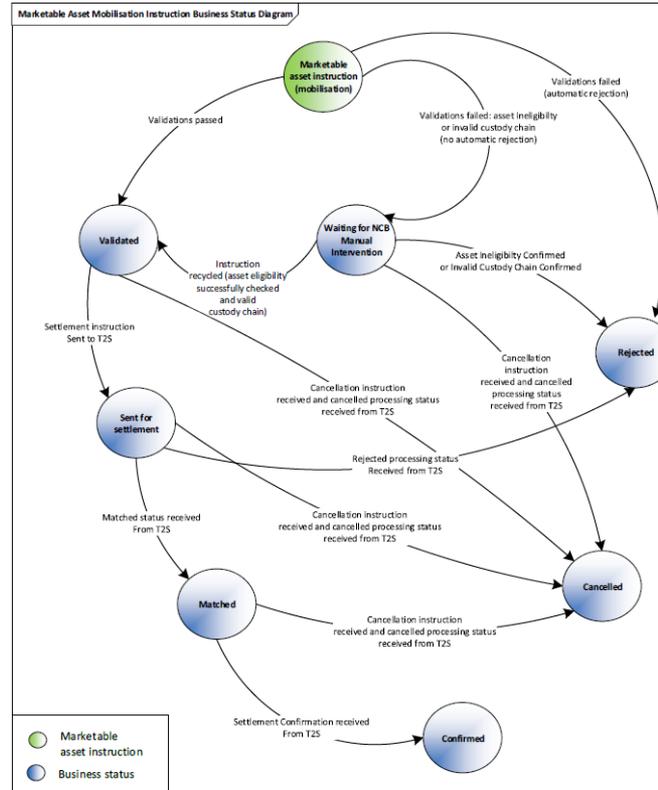
What?

- Mobilisation/demobilisation



Special features

- Correspondent Central Banking Model (CCBM)
- T2S auto-collateralisation
- TARGET contingency solution (ECONS II)



Reminder: Introduction of the T2S settlement policy alongside ECMS

- The T2S settlement policy will be introduced when the ECMS is launched. This will require NCBs to only receive marketable assets (securities) **on accounts in T2S**. As a result, the settlement of mobilisations and demobilisations will always take place in T2S.
- Impact on Bundesbank: **receipt in CASCADE accounts only**; Creation accounts will no longer be used for this purpose.
- **T2S settlement policy** will apply to all **NCBs** in domestic and CCBM business, i.e. also in relation to **other NCBs as CCBs**, for example.

2. Functionalities

Marketable assets (look & feel)

- “Input: Counterparty MAI” screen for entering a settlement instruction for a marketable asset

Input: Counterparty MAI

General Informations

Party 2 Instruction Reference

Instruction Type Securities Transaction Type Counterparty NCB Participant Asset Account Identifier

ISIN ISIN Description Quantity in FAMT Denomination Currency

Trade Date Intended Settlement Date

Additional Informations

Common Reference

Custody Chain

CSD of the T2S Account for regular collateral External Asset Account External Asset Account owner

Counterparty Details

Party CSD Party BIC Party Account

Party 2 Details

BIC Account ID

Scheme name Proprietary identification Issuer



Where?

- Collateral and Credit module



How?

- Search fields and list views for monitoring
- Manual instruction
- Automatic instruction



What?

- Execution of cash collateral (de)mobilisation instructions



Special features

- Aggregated cash collateral positions

- Where there is not enough collateral in the collateral account (**margin call**), the counterparty can remedy this by submitting **cash collateral**. If the margin call is not solved by 17:00, the ECMS automatically initiates the mobilisation of cash as collateral.
- To (de)mobilise cash collateral, the counterparty or NCB generates a **cash (de)mobilisation instruction** to the ECMS.
- In a **cash mobilisation**, the ECMS generates payment instructions (regular or connected payment) to the counterparty's primary MCA and the BBk's MCA in the CLM and, following confirmation by the CLM, increases the cash collateral amount in the collateral pool in the ECMS.
- A **cash demobilisation instruction** is generated by the ECMS only after verification that the collateral pool is sufficient, and is like a cash mobilisation instruction in reverse. Demobilisations can be either regular or connected payments, depending on whether the credit line also has to be reduced when the MCA is debited in the CLM.
- **Automated sweeps of cash** that is no longer required as collateral are credited to the counterparty's primary MCA.

- “Cash Collateral Instruction View” screen showing details of a cash collateral instruction

Cash Collateral Instructions List > Cash Collateral Instruction View screen History

Instruction Details

| | | |
|--|---|---|
| Penny's Instruction Reference 00004957MLMVT | Cash Collateral Instruction ID 00004957MLMVT | Instruction Type Automatic Cash Demobilisation |
| Pool Identifier POOL09000900059 | Counterparty ABVR005;ABVR005 | Amount 77.63 |
| Counterparty Cash Account ABVRATW005 | Intended Settlement Date 20/06/2022 | NCB Cash Account NABAATWXXX |

Status Details

| | | |
|------------------------------|-----------------------------|-------------------------|
| Business Status CANCELLED | Not Enough Collateral No | Force Margin Call No |
| L2A No | Action To Validate | Is Rejected No |

Notifications Notifications [1] Business Validation Errors Business Validation Errors [1]

FootPrint

| | | | |
|---|--|---|--|
| Update User Id ECMSOperationalDayScheduler | Update Date 17/06/2022 19:29:23:295 | Creation User Id ECMSOperationalDayScheduler | Creation Date 17/06/2022 19:29:17:412 |
|---|--|---|--|

2. Functionalities

Credit claims (overview)



Where?

- Collateral and Credit module



How?

- Maintenance of debtor data and close links by NCBs



What?

- Registration, adjustment and (de)mobilisation of credit claims and their ratings



Special features

- Correspondent Central Banking Model (CCBM)
- Locally managed credit claim via MACCs

- The ECMS accepts several types of credit claims as collateral:
 - **Standard credit claims vs. additional credit claims**
 - **Local credit claims** are managed in **MACCs**, as hitherto.
 - **Cross-border credit claims** are managed in the **ECMS**.
- **NCBs** that manage their **credit claims locally** report them to the ECMS as **externally managed collateral**.
- Counterparties can submit their **instructions for credit claims** managed in the ECMS either in **A2A mode** or **U2A via the ECMS GUI**.

2. Functionalities

Credit claims (look & feel)

- “Edit: Credit Claim File” screen for entering a credit claim file manually with the
 - registration instruction(s)
 - update instruction(s)
 - rating registration instruction(s)
 - (de)mobilisation instruction(s)
- of a credit claim

Edit : Credit Claim File

ECMS Internal Reference: CCFile0000000696

File Reference: _____

Counterparty: _____

Intended Settlement Date: 12/08/2022

Credit Claim Instruction: Credit Claim Instruction [0]

Rating Instruction: Rating Instruction [0]

Mobilisation Instruction: Mobilisation Instruction [0]

Demobilisation Instruction: Demobilisation Instruction [0]

Reset Save Cancel

2. Functionalities

Corporate actions (overview)



Where?

- Corporate Actions module



How?

- ECMS acts as a messaging platform between NCBs, CSDs and counterparties



What?

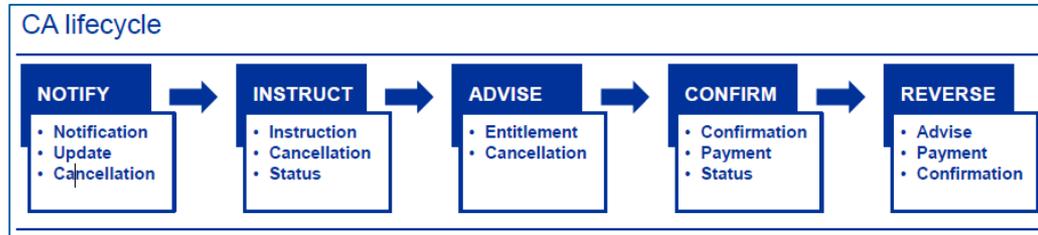
- Notify, instruct (issue and cancel instructions), advise on entitlements in corporate action events and notify related payments



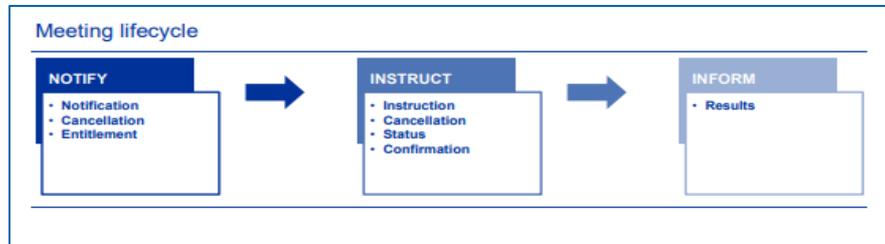
Special features

- Participation options: mandatory, mandatory with options, voluntary

- Introduction of the ECMS harmonises corporate actions processes, workflows and messaging by reinforcing existing harmonisation standards or adding new ones (allowing for specific considerations regarding collateral management).
- The ECMS follows the CA life cycle, i.e. the workflow of a CA event with its **five main phases** (notify/instruct/advise/confirm/reverse) and their corresponding **business processes**:



- The ECMS follows the CA meeting life cycle, i.e. the workflow of a meeting event with its **three main phases** (notify/instruction/inform) and their corresponding **business processes**:



- “Details: CI (Cancel/Confirm Reject/Recheck)” screen showing details of a corporate action instruction

List : CA Client Instruction > Details: CI (Cancel/Confirm Reject/Recheck)

CA Client Instruction

| | | | |
|-------------------------------------|--|--|---|
| CA Client Instruction Id ISCI116 | CA CSD Event Ref TENDVOLU043 | Party's Instruction Reference ISCI116 | CA ECMS Event Id TEND0000000195 |
| NCB Custodian AT9900 Custodia AT | CA Event Type TEND VOLU | ISIN AT0000A2SKX7 | Option Type and Number 001 Cash Option |
| Party FIAD Code ABVR001 ABVR001 | ECMS Counterparty Asset Account ABVR001 A01 | Quantity instructed in FAMI 100,000 | Total Eligible Balance 100,000 |
| Remaining Quantity 100,000 | Instruction Type Generated | Reason Inst_Accepted | Business Status Confirmed by Custodian |
| Action To Validate | Is Rejected No | | |

Other details

His Rule Error [His Rule Error \[0\]](#) Notifications [Notifications \[1\]](#) [Instruction Comment \[1\]](#)

FootPrint

| | |
|--|--|
| Updater User Id ATCBJobScheduler | Update Date 27/09/2021 17:40:05:892 |
| Creation Date 27/09/2021 17:40:03:143 | |

2. Functionalities

Triparty (overview)



Where?

- Collateral and Credit module
>> Collateral >> Triparty



How?

- Creation and adjustment of transactions by NCBs
- Matching of assigned collateral by NCBs



What?

- Transactions and corporate actions via triparty agents



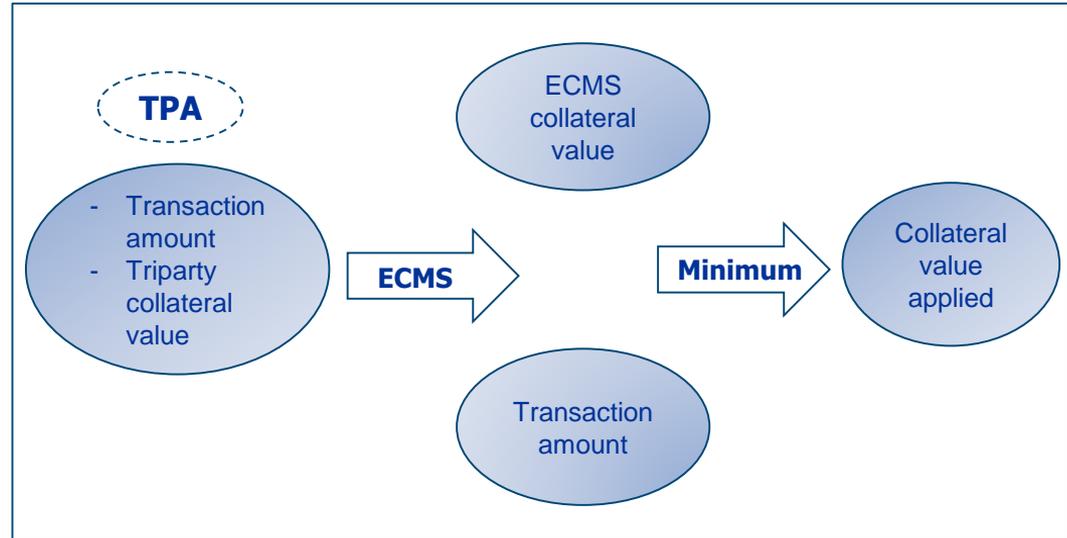
Special features

- Single triparty model

2. Functionalities

Triparty (details)

- **Transaction amount:** intended transaction amount, i.e. the value of the collateral the TPA intends to cover.
- **Triparty collateral value:** collateral value of the relevant securities calculated by the TPA.
- **ECMS collateral value:** actual collateral value of the relevant securities calculated by ECMS.
- **Collateral value applied:** value recorded as collateral in the ECMS pool for the counterparty. This is either the transaction amount or the ECMS collateral value, whichever is smaller.



| Value Update Reason | Movement Type | Transaction Amount | ECMS Collateral Value | Collateral value applied |
|------------------------------|---------------------|--------------------|-----------------------|--------------------------|
| Triparty Collateral Increase | Triparty Collateral | 10000 | 9384 | 9384 |

2. Functionalities

Monetary policy operations (overview)



Where?

- Collateral and Credit module



How?

- Collection of fixed-term deposits
- Marginal lending on request



What?

- Provision and absorption of liquidity



Special features

- Early repayments management
- Netting process management
- Automatic marginal lending
- Reverse transactions

2. Functionalities

Monetary policy operations (look & feel)

- “Input MLOR instruction” screen for requesting marginal lending

Input MLOR Instruction

Transaction Details

| | | |
|---|---|---------------------------------|
| Transaction Reference STDFACC000000345 | Counterparty Transaction Reference Number | Pool Identifier |
| Counterparty Identifier | NCB Identifier | Instruction Description MLOR |
| Amount | Currency EUR | |
| Instruction Date 13/05/2022 | Intended Settlement Date | Maturity Date |
| Last Update Reason | | |

2. Functionalities

Reporting (overview)



Where?

- Reference Data module
>> Reports
- Collateral and Credit module
>> Reporting
- Corporate Actions module
>> TBC



How?

- Generated based on a business or time event



What?

- Reports on business areas/modules



Special features

- N/A

- ECMS provides counterparties and NCBs with a **list of predefined reports** that are accessible via **A2A and/or U2A**, depending on the type of report.
- The reports are available for different business areas.
- Report details are based on the data that concern NCB users or monetary policy counterparties. They are available depending on an ECMS actor's privileges.
- ECMS produces reports **based on a business or time event**.
- NCBs and counterparties can **subscribe** to reports at different intervals depending on the type of report.
- In addition to the predefined reports, NCBs and counterparties are able to extract, via U2A, data from lists (e.g. positions and instructions) by applying certain search and filter criteria such as "counterparty", "ISIN", etc.

2. Functionalities

Report list (counterparties)

| Category | Report name | Frequency | Mode | NCB/ counterparty |
|-----------------------|--|---|---------|----------------------|
| Reference Data | Users and access rights | Weekly as required | U2A | NCB & counterparty |
| Collateral | Assets losing eligibility | Daily after C2D/EA dissemination | U2A | NCB & counterparty |
| Collateral and Credit | Pool position report (statement of pool) | Daily/weekly/monthly/yearly at EOD/on request | A2A/U2A | NCB & counterparty |
| Other | Pending actions | Daily as required | U2A | NCB & counterparty |
| | Statement of holdings | Daily/weekly/monthly/yearly at EOD/on request | A2A | NCB & counterparty |
| | Statement of transactions | Daily/weekly/monthly/yearly at EOD/on request | A2A/U2A | NCB & counterparty |
| | Statement of pending transactions | Daily/weekly/monthly/yearly at EOD/on request | A2A/U2A | NCB & counterparty |

2. Functionalities

Reporting (look & feel)

- “Search Result: Pool Position Report” screen

Search Result : Pool Position Report

10 Page 1 of 39 385

| Reference | Party Bic | Ncb Bic | Notifications Status | Error Description | Update Date | Updater User Id |
|-----------|-------------|-------------|----------------------|-------------------|-------------------------|-----------------------------|
| 178216620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 08/08/2022 19:00:16:639 | ECMSOperationalDayScheduler |
| 178206620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 08/08/2022 19:00:13:550 | ECMSOperationalDayScheduler |
| 177476620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 07/08/2022 23:14:55:092 | ECMSOperationalDayScheduler |
| 177466620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 07/08/2022 23:14:52:053 | ECMSOperationalDayScheduler |
| 177126620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 05/08/2022 19:00:21:985 | ECMSOperationalDayScheduler |
| 177116620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 05/08/2022 19:00:18:956 | ECMSOperationalDayScheduler |
| 177106620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 05/08/2022 19:00:15:777 | ECMSOperationalDayScheduler |
| 175966620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 04/08/2022 19:00:15:917 | ECMSOperationalDayScheduler |
| 175956620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 04/08/2022 19:00:12:233 | ECMSOperationalDayScheduler |
| 175926620 | NATXFRPPXXX | BDFEFRPPXXX | Processed | | 04/08/2022 18:31:04:260 | ECMSOperationalDayScheduler |

2. Functionalities

Support functionalities (overview)



Where?

Available across all modules:

- Reference Data module
- Collateral and Credit module
- Instructions and Positions module
- Corporate Actions module



What?

- Billing
- Pool position
- Pool projection
- Dashboard
- System parameters
- Legal Archiving
- Audit trail

2. Functionalities

Support functionalities (overview)

| Functionality | Where? | What? |
|------------------------|--|---|
| Billing | <ul style="list-style-type: none">Reference Data >> Billing | <ul style="list-style-type: none">Invoices from CSDs/TPAs recorded monthlyIntegration of fees calculated manually by NCBsInvoices for counterparties are generated by the Billing module and collected by direct debit. |
| Pool position | <ul style="list-style-type: none">Collateral and Credit >> Pool Overview | <ul style="list-style-type: none">Actual position based on current value of counterparty poolPosition at a specific ECMS business date in the past (maximum number of business days in the past set as a system parameter) |
| Pool projection | <ul style="list-style-type: none">Collateral and Credit >> Pool Overview | <ul style="list-style-type: none">Counterparty pool projection for a given future date (maximum number of business days in the future set as a system parameter) |
| Dashboard | <ul style="list-style-type: none">TBC | <ul style="list-style-type: none">Monitoring and retrieving business information during the ECMS business dayDashboard configured according to access rights. |

- Screens (look & feel), see annex.

2. Functionalities

Support functionalities (overview)

| Functionality | Where? | What? |
|--|---|---|
| System parameters | <ul style="list-style-type: none">▪ Reference Data | <ul style="list-style-type: none">▪ System parameters are configured by the ECMS operator for the NCBs and by the NCBs for the counterparties.▪ ECMS actors can search for, list and display the details of system parameters. |
| Legal archiving (For details, see annex) | <ul style="list-style-type: none">▪ Central archive (request via ECMS operator) | <ul style="list-style-type: none">▪ For audit and regulatory purposes, the account positions and inbound/outbound messages from the operational database are legally archived in their original format in a central archive for a period of ten years.▪ The ECMS operator can extract previously archived data either for its own purposes or on behalf of an NCB or an ECMS entity. |
| Audit trail | <ul style="list-style-type: none">▪ Reference Data >> Audit Trail | <ul style="list-style-type: none">▪ Allows you to reconstruct who updated which data and when. |

- Screens (look & feel), see annex.

If you have any questions or wish to say something,
please use the chat function.



1. ECMS | Introduction
2. ECMS | Key functionalities
3. **ECMS | Important documents**

3. Documents

Public ECB information

Public ECB information

- ECB landing page “What is the Eurosystem Collateral Management System (ECMS)?”
<https://www.ecb.europa.eu/paym/target/ecms/html/index.en.html>
- More than 40 ECMS publications can be found on the “ECMS – Professional use” page (dating back to Feb. 2020)
<https://www.ecb.europa.eu/paym/target/ecms/profuse/html/index.en.html>
 - ECMS User Handbook Counterparties, ECMS UHB CTPY v1.1 (8 March 2023)
https://www.ecb.europa.eu/paym/target/ecms/profuse/shared/pdf/ecb.targetecms230315_ECMS_User_Handbook_Counterparties.en.pdf?0be47b145a022c7370e88feec983ed19
 - Business Description Document: key functions & features of ECMS
https://www.ecb.europa.eu/paym/target/ecms/profuse/shared/pdf/ecb.targetecms230101_Business_Description_Document_of_ECMS.en.pdf?537fd64a7e0cf25c80d8b4df986de09b#
 - A range of ECMS info packs (presentations available as PDFs): ECMS support, billing, pool projection, handling of corporate actions, credit line management, credit freezing, handling of credit claims, reports, ECMS key milestones, user testing and migration, etc.
 - A variety of ECMS guides (documents available as PDFs): TARGET Services Connectivity Guide, ECMS message usage guide, U2A and A2A roles in the ECMS, ECMS catalogue of messages and credit claim files, status codes in the ECMS, etc.
 - ... and many other documents.



Public BBk information (in English and German)



- Landing page “ECMS Eurosystem Collateral Management System”
<https://www.bundesbank.de/en/tasks/payment-systems/eurosystem-collateral-management-system/ecms-723744>
- A collection of more than 40 BBk and ECB publications covering five different topics:
 - Participant information (virtual BBk training events) <https://www.bundesbank.de/en/tasks/payment-systems/eurosystem-collateral-management-system/participant-information>
 - Test and migration (ECB information)
<https://www.bundesbank.de/en/tasks/payment-systems/eurosystem-collateral-management-system/test-and-migration>
 - Documentation & FAQs (functional/technical documentation, further information from the ECB, FAQs)
<https://www.bundesbank.de/en/tasks/payment-systems/eurosystem-collateral-management-system/documentation-faqs-ecms>
 - FAQs on the ECMS
<https://www.bundesbank.de/resource/blob/882354/2e446bc2f04637c1c50a4ae683c5e7e8/mL/ecms-haeufige-fragen-data.pdf>
 - [Harmonisation initiatives](#) and [ECMS community readiness monitoring](#)

If you have any questions or wish to say something,
please use the chat function.



Training feedback

- When you were invited to this event, you were sent a link to a standardised and anonymised feedback form.
- The feedback form contains 11 questions with a multi-level response scale. It should take a maximum of five minutes to answer.
- Once the event has ended, please take a few moments to fill out the form and give us honest feedback on this training course. Thank you!

ECMS | Basic training module



Thank you for your attention ...

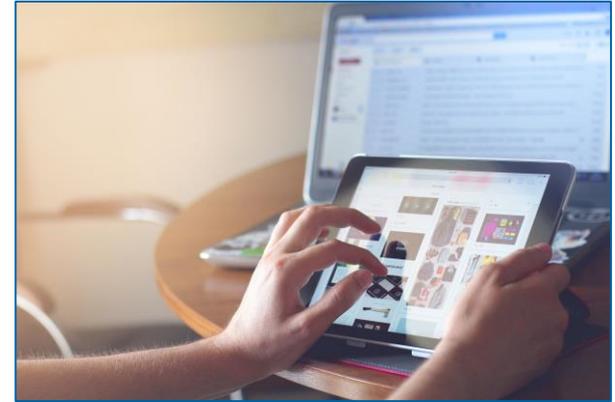
ecms-training@bundesbank.de

... and all the best working with ECMS!

- Hardware & software requirements (GUI)
- Main menu: modules (look & feel)
- Validation (U2A)
- Support functionalities (look & feel)

Hardware requirements

- Processor: 1 gigahertz (GHz) or higher, supporting streaming SIMD extensions(SSE2)
- RAM: minimum of 8 gigabytes (GB)
- CPU: quad-core or higher
- Hard drive space: minimum of 200 megabytes (MB)
- Graphics card:
Microsoft DirectX 9 graphics devices with Windows Display Driver Model (WDDM) supported
- Screen settings:
minimum screen resolution of 1280 x 720 pixels with a colour depth of at least 24-bit (true colour). A higher colour depth of 32 bits is supported. Higher screen resolutions are recommended. Using lower screen resolutions may result in the GUI being displayed incorrectly.



Software requirements

▪ Operating system

No particular operating system (OS) or other important software is required. Basically, any OS that supports the following browsers can be used.

▪ Supported browsers



Microsoft Internet Explorer (11)/Microsoft Edge/Google Chrome (40 or higher)/Firefox (32 or higher).

JavaScript and Java applets are used for client-side validations, which is why JavaScript and cookies need to be set to “enabled”. No additional plug-in based internet applications like Flash or Silverlight are required. Recommended cache size: between 1 and 2 MB.

A full definition of eligible browsers and their minimum versions and the complete replacement of applet technology are defined in ESMIG; see the ESMIG UDFS.*

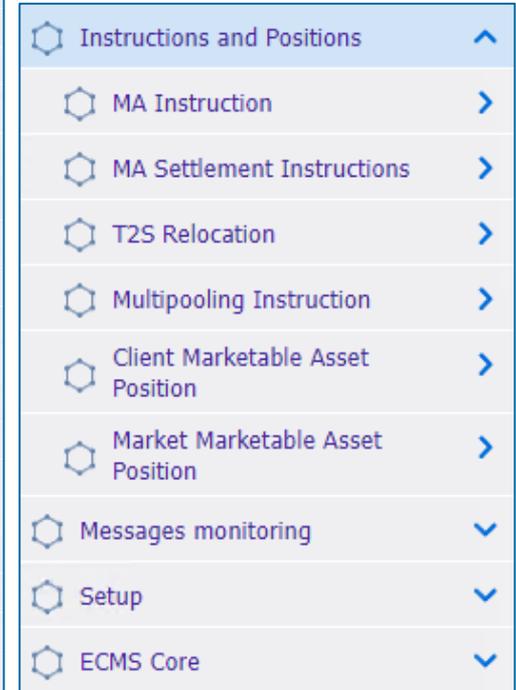
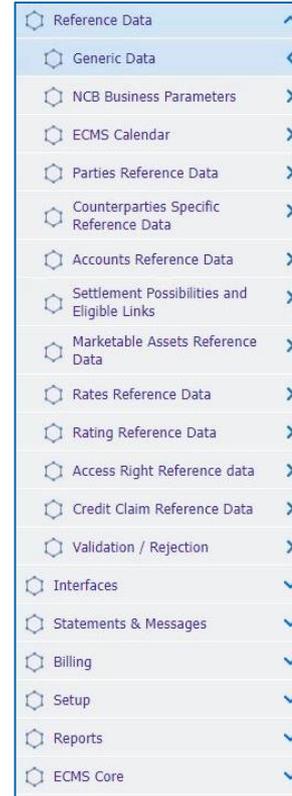
* <https://www.bundesbank.de/en/homepage/eurosystem-single-market-infrastructure-gateway-user-detailed-functional-specifications-esmig-udfs--799238>

Annex

- Main menu
Reference Data module (MegaCommon)
[see screenshot on the left]

- Main menu
Instructions and Positions module (MegaCustody)
[see screenshot on the right]

Main menu: modules (look & feel)



Annex

- Main menu
Corporate Actions module (MegaCor)
[see screenshot on the left]

- Main menu
Collateral and Credit module (MegaLend)
[see screenshot on the right]

Main menu: modules (look & feel)

| | |
|---|--|
| Announcements | Pool |
| CA Event Display | Pool Structure |
| CA Event Create | Pool overview |
| Validate / Reject CA Event | ELA Operation |
| Accept / Reject CA Event Blocked for Critical Update | Payment And Credit Line Instruction |
| CA Events | Collateral |
| Feed Management | Exposure |
| CA Entitlements | OMO Interest Rates |
| Movement | Transfer |
| CA Position | Validation / Rejection |
| Instructions | Notification |
| Messages Monitoring | Accounting |
| MegaCor Setup | Reporting |
| Accounting | Setup |
| ECMS Core | ECMS Core |

Front-end validation

- Part one of the validation process: comprises both field validation (= prescribed format) and cross-field validation (= data consistency across multiple fields). Click on a button to carry out this process.

Confirmation prompt

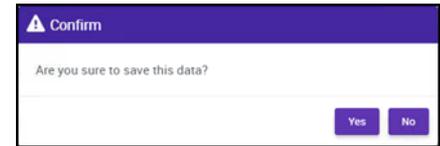
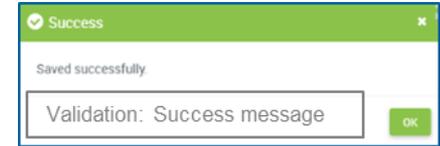
- For activities in **2-eyes mode**, a confirmation prompt is shown following successful front-end validation to allow users to send or reject the them (does not appear in **4-eyes mode**).

Back-end validation

- Part two of the validation process: following successful front-end validation, the request is sent to the back-end and checked for compliance with the business validation rules. In the event of failure, an error message is displayed.

(Validation) result

- After each validation, the ECMS GUI informs you about the result. Two different types of message are possible: error messages and success messages.



4-eyes mode

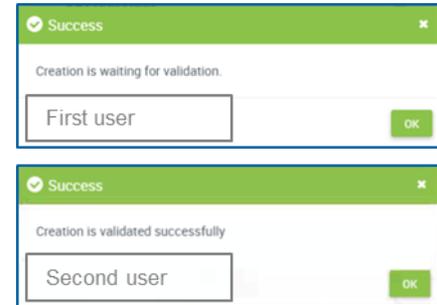
- You can use ECMS in 2-eyes mode or 4-eyes mode depending on how the access rights are set up. 2-eyes mode and 4-eyes mode apply to input screens and to any kind of deletion processes. If you are a 4-eyes mode user, your actions have to be confirmed by a second user for them to be processed.

- First user**

In 4-eyes mode, the first user enters, changes or deletes data on a screen and then submits the action by clicking on the “Submit” button. The success message that appears after successful validation contains a 4-eyes principle. For final execution a second user is needed to confirm the action.

- Second user**

After the first user has entered, changed or deleted the data, a second user with the required privilege has to approve or revoke this action via the relevant screen by using either 4-eyes mode or the search function. Once the data changes have been positively approved, the ECMS designates these data as approved and forwards them for further processing.



- “Search Result: Received Invoices” screen showing the search results for invoices in tabular format
- Entries can be selected by clicking on them.

Search Result: Received Invoices

10 Page 1 of 5 43

| Message Reference | Invoice Identifier | Invoice Sender Bic | External Asset Account | Start Period Date | End Period Date | Invoice Date | Invoice Amount | Notifications Status | Update Date |
|-------------------|--------------------|--------------------|------------------------|-------------------|-----------------|--------------|----------------|----------------------|---------------------------|
| 10132 | mybill_1132 | CSDATFPPXXX | SICVFRPPBDFEFRPPTR... | 01/04/2022 | 29/04/2022 | 11/05/2022 | 6,000 | Impacted | 24/05/2022 14:43:21:97... |
| 10142 | mybill_1142 | CSDATFPPXXX | SICVFRPPBDFEFRPPTR... | 01/04/2022 | 29/04/2022 | 07/05/2022 | 6,000 | Rejected | 24/05/2022 14:35:39:17... |
| 10147 | mybill_1147 | CSDATFPPXXX | SICVFRPPBDFEFRPPTR... | 01/04/2022 | 29/04/2022 | 11/05/2022 | 6,000 | Rejected | 24/05/2022 14:33:07:65... |
| 10990 | mybill_10990 | CSDATFPPXXX | BDEBDFEFRPPREGACC... | 01/03/2022 | 31/03/2022 | 22/04/2022 | 4,000 | Impact Failed | 22/04/2022 14:47:38:91... |
| 10991 | mybill_10991 | CSDATFPPXXX | BDEBDFEFRPPREGACC... | 01/03/2022 | 31/03/2022 | 13/04/2022 | 4,000 | Impacted | 19/04/2022 09:57:54:51... |
| 10992 | mybill_10992 | CSDATFPPXXX | SICVFRPPBDFEFRPPRE... | 01/03/2022 | 31/03/2022 | 13/04/2022 | 4,000 | Impacted | 19/04/2022 09:55:33:12... |
| 10993 | mybill_10994 | CSDATFPPXXX | SICVFRPPBDFEFRPPRE... | 01/03/2022 | 31/03/2022 | 13/04/2022 | 4,000 | Rejected | 19/04/2022 09:55:31:67... |
| 10994 | mybill_10994 | CSDATFPPXXX | SICVFRPPBDFEFRPPRE... | 01/03/2022 | 31/03/2022 | 19/04/2022 | 3,000 | Impacted | 19/04/2022 09:53:30:23... |
| 10995 | mybill_10995 | CSDATFPPXXX | IBLSBDFEFRPPXXX | 01/03/2022 | 31/03/2022 | 19/04/2022 | 8,000 | Impacted | 19/04/2022 09:52:08:89... |
| 10996 | mybill_10996 | CSDATFPPXXX | SICVFRPPBDFEFRPPTR... | 01/03/2022 | 31/03/2022 | 19/04/2022 | 8,000 | Impacted | 19/04/2022 09:51:07:51... |

- “List Pools Overview” screen showing the search results in the pool overview
- Entries can be selected by clicking on them.

List Pools Overview

10 Page 1 of 10 Q 96

| Pool Identifier | Pool Type | Counterparty | SCP Pool | | | | | SCP Pool | | ELA Pool | | Is Active | Is Valuated | Update Date | Updater User | |
|-----------------|-----------|--------------|------------------|--------------|-------------|-------------|-------------|-------------|---------------|----------------|---------------|-----------|-------------|-------------|------------------|-----------------|
| | | | Total collateral | Total Credit | SCL | ECL | RCL | COLLATERAL | Pool In Margi | ELA Collateral | Total ELA Cre | | | | | |
| POOL0000000... | SCP | FR18129 | 100027777.78 | 60000000 | 40027777.78 | | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 14... | FRCBJobSche... |
| POOL0000000... | SCP | FR18129 | 114667777.78 | 54306730.78 | 60361047 | 35693269.22 | 30693269.22 | 24667777.78 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 13... | ECMS OPERAT... |
| POOL0000000... | SCP | FR18129 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR30007 | 100000000 | 21043589.74 | 78955410.26 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR18129 | 50001000 | 42461538.46 | 7539461.54 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR18129 | 0 | 4500000 | 0 | 0 | 0 | 0 | 0 | Yes | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR18129 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR18129 | 100000000 | 0 | 100000000 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR30007 | 100000000 | 150000 | 99850000 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |
| POOL0000000... | SCP | FR18129 | 100002000 | 3000000 | 97002000 | 0 | 0 | 0 | 0 | No | 0 | 0 | Yes | Yes | 16/05/2022 07... | ECMSOperatio... |

Deactivate Edit View

- “View: Pool Projection Result” screen showing the search results for the pool projection by pool ID in descending order (default setting)
- Entries can be selected by clicking on them.

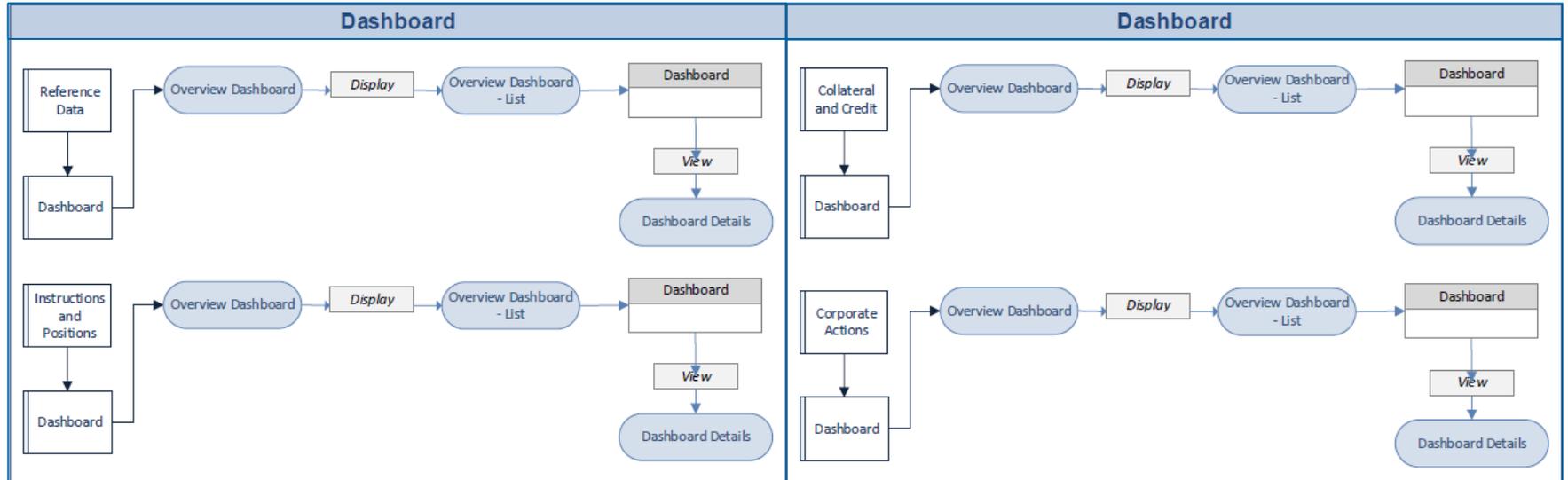
Search Result : Pool Projection Result > View : Pool Projection Result

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| <input type="checkbox"/> | Process Reference | Projection Date | Pool Identifier | Counterparty | Blocked Status | Closed Status | Total Collateral After | Total Exposure | Projection result | Update Date | Update User Id |
|-------------------------------------|-------------------|-----------------|------------------|--------------|----------------|---------------|------------------------|----------------|-----------------------|--------------------------|------------------------|
| <input type="checkbox"/> | | 06/07/2022 | POOL000000000090 | FR10007 | | | 0 | 0 | | 07/07/2022 18:00:50.2... | ECMSOperationalDayS... |
| <input type="checkbox"/> | | 06/07/2022 | POOL000000000090 | FR10007 | | | 0 | 0 | | 06/07/2022 18:00:50.4... | ECMSOperationalDayS... |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000084 | FR18129 | | | 0 | 0 | | 06/07/2022 14:07:57.1... | ECMS OPERATOR 1 |
| <input checked="" type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000110 | FR50007 | | | 100,000,000 | 20,000,000 | Sufficient Collateral | 06/07/2022 14:07:57.0... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000097 | FR50007 | | | 0 | 0 | Sufficient Collateral | 06/07/2022 14:07:56.2... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000088 | FR50007 | | | 0 | 0 | Sufficient Collateral | 06/07/2022 14:07:55.4... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000086 | FR50007 | | | 130 | 130 | Sufficient Collateral | 06/07/2022 14:07:54.7... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000069 | FR50007 | | | 0 | 0 | Failed | 06/07/2022 14:07:53.9... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000068 | FR50007 | | | 310,000,000 | 210,000,000 | Sufficient Collateral | 06/07/2022 14:07:53.5... | ECMS OPERATOR 1 |
| <input type="checkbox"/> | PROJ83 | 07/07/2022 | POOL000000000067 | FR50007 | | | 0 | 0 | Sufficient Collateral | 06/07/2022 14:07:52.7... | ECMS OPERATOR 1 |

[View](#)

- No screen currently available



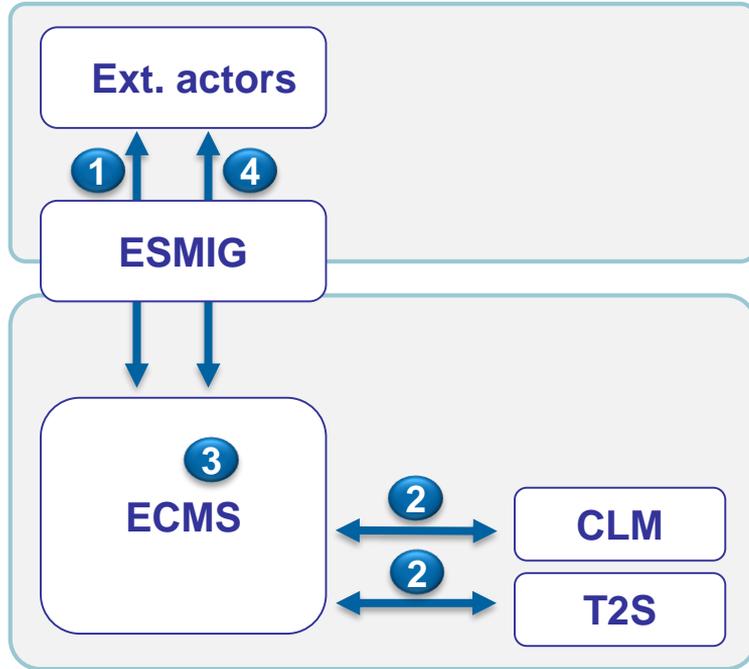
- “Search Result: System Parameter” screen showing the search results for system parameters
- Entries can be selected by clicking on them.

Search Result : System Parameter

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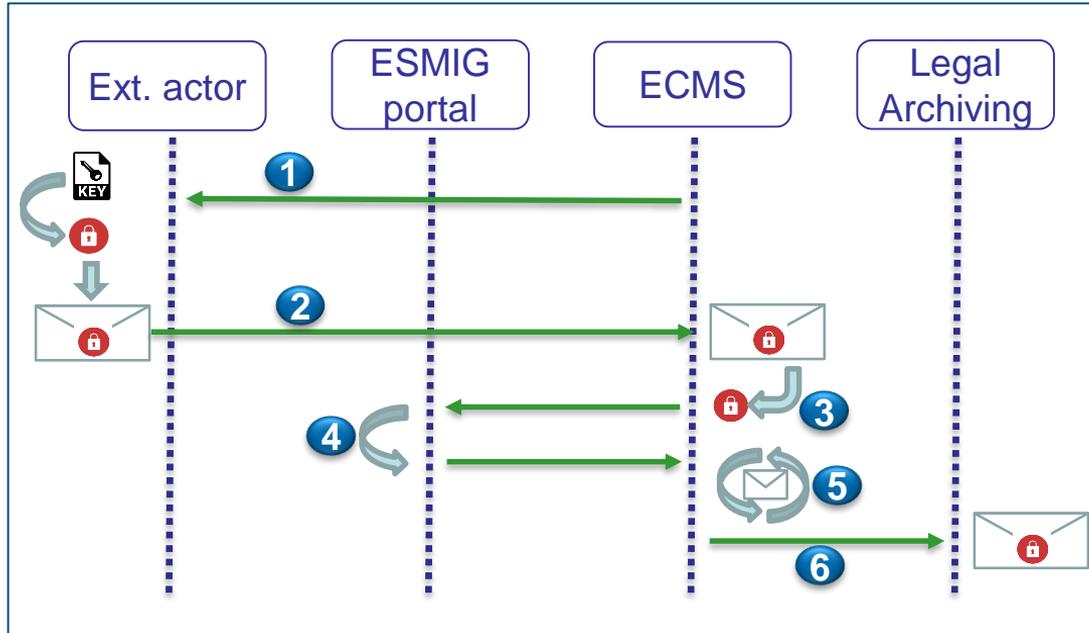
| <input type="checkbox"/> | Parameter Name | Parameter Value | Description | Action To Validate | Rejected | Update Date | Updater User Id |
|-------------------------------------|--|--|--|--------------------|----------|-------------------------|-----------------|
| <input checked="" type="checkbox"/> | DTT_SLA_MESSAGE_DESCRIPTION_NAMES | Pool_Creation_ELA_Description;Pool_Creatio | DTT_SLA_MESSAGE_DESCRIPTION_NAMES | | No | 28/04/2022 11:12:06:229 | admin |
| <input type="checkbox"/> | CREDIT_LINE_NEEDED | false | CREDIT_LINE_NEEDED | | No | 28/04/2022 11:12:02:234 | admin |
| <input type="checkbox"/> | A2ACFROLE | NCB - A2A CREDIT FREEZING EXECUTION | NCB - A2A CREDIT FREEZING EXECUTION | | No | 27/04/2022 20:09:46:399 | admin |
| <input type="checkbox"/> | DTT_QUEUE_NAME_MDB | MegaLendServicesMDB | DTT_QUEUE_NAME_MDB | | No | 28/04/2022 11:12:00:912 | admin |
| <input type="checkbox"/> | DTT_MULTISMULTIMACHINE_ACTIVE | true | DTT_MULTISMULTIMACHINE_ACTIVE | | No | 31/03/2022 11:32:16:811 | admin |
| <input type="checkbox"/> | DTT_MAX_CHARACTERS_SPLIT | 2000 | maximum number of characters within a chn... | | No | 31/03/2022 11:32:16:479 | admin |
| <input type="checkbox"/> | AUTO_FILL_INPUT_MKT_PAYMENT | false | AUTO_FILL_INPUT_MKT_PAYMENT | | No | 30/03/2022 13:28:15:363 | admin |
| <input type="checkbox"/> | MAX_ALLOW_VARIATION_PRICE | 15 | Tolerance value from which the marketable a... | | No | 28/04/2022 11:12:00:728 | admin |
| <input type="checkbox"/> | DTT_XSD_PATH | /home/ecms/megara/XSD/DataTransferToo... | ECMS : Physical path where xsd of Data tran... | | No | 30/03/2022 13:54:37:578 | admin |
| <input type="checkbox"/> | ClientSecAccountBICAddressForECMSEntry | official | ClientSecAccountBICAddressForECMSEntry... | | No | 03/03/2022 14:15:01:354 | admin |

[View](#)



There are four types of (legal) archiving in an ECMS context:

- 1** A2A messages/files exchanged with external actors: ESMIG takes care of legal archiving.
- 2** A2A messages exchanged between ECMS and CLM/T2S.
- 3** Internal ECMS data (positions, booking entries, ...): these data are archived in ECMS DWH. Furthermore, they are the subject of reports sent via ESMIG to the NCBs and are therefore legally archived via ESMIG. These data are outside the scope of ECMS LeA.
- 4** U2A interactions: U2A instructions for which the criticality assessment is high from a repudiation risk perspective are stored in the ECMS Legal Archiving module (LeA) in their original format and unsigned for a period of ten years. U2A message archiving, which is required by law, takes place in the night-time process (NTP).



- 1** ECMS prompts end users to create the signature for sensitive transactions from their workstation.
- 2** The signed U2A transaction is sent to ECMS.
- 3** ECMS extracts the digital signature from the https request.
- 4** And validates this signature for ESMIG, thereby guaranteeing the non-repudiation of origin (NRO).
- 5** Following validation, the transaction is processed by ECMS.
- 6** ECMS sends the signed U2A transaction to the Legal Archiving module.

- No screen currently available

