

# CARBON BORDER ADJUSTMENT MECHANISM



## CBAM IT System Overview

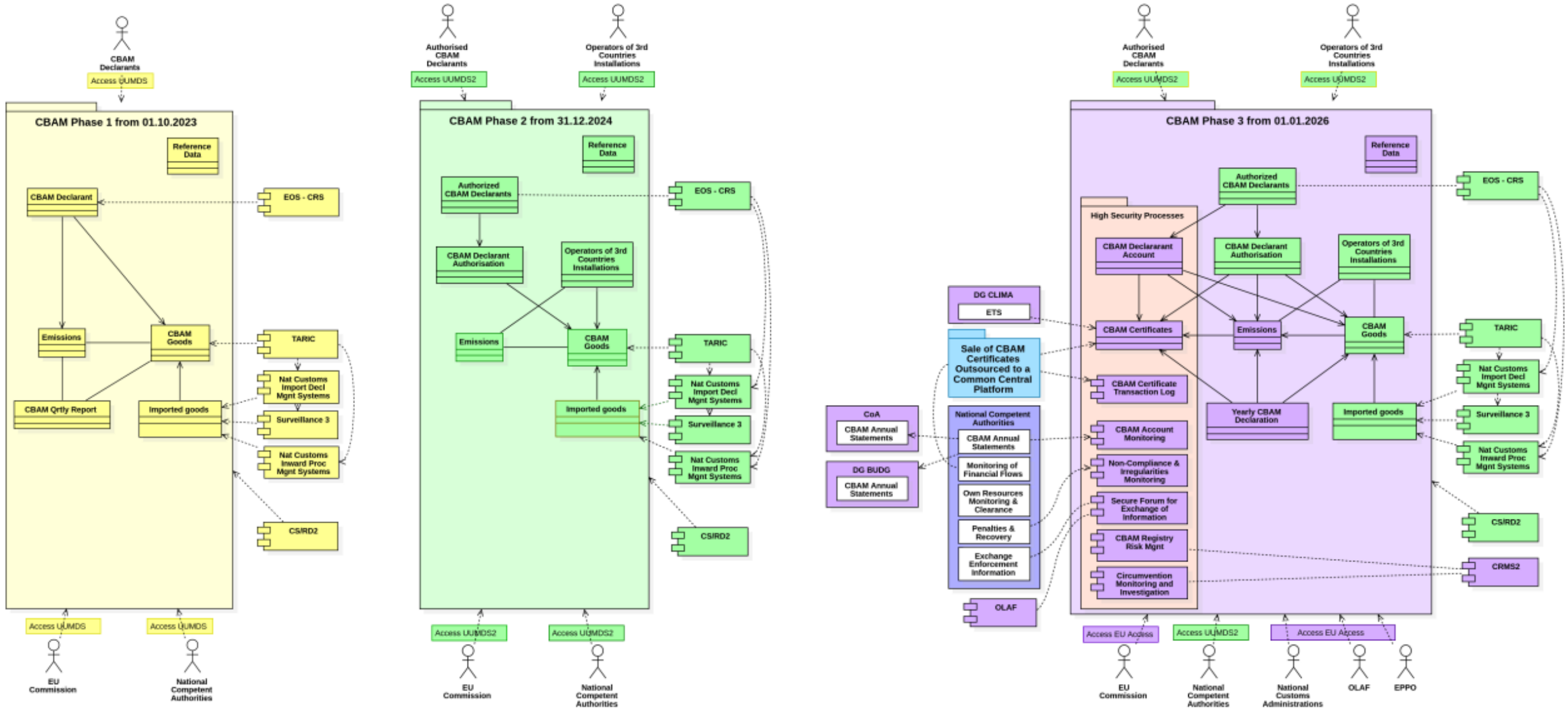


*CBAM Expert Group Meeting June 2023*

# CBAM Deployment Phases

- **CBAM Phase 1:** Transitional Period from the 4th quarter of 2023 until 31st December 2024 covering the CBAM Reports;
- **CBAM Phase 2:** Transitional Period augmented with the Authorization of CBAM Declarants and Registration of Operators and Installations from 3rd Countries as from 31 December 2024 until 31st December 2025;
- **CBAM Phase 3:** Definitive Period from 1st quarter 2026.

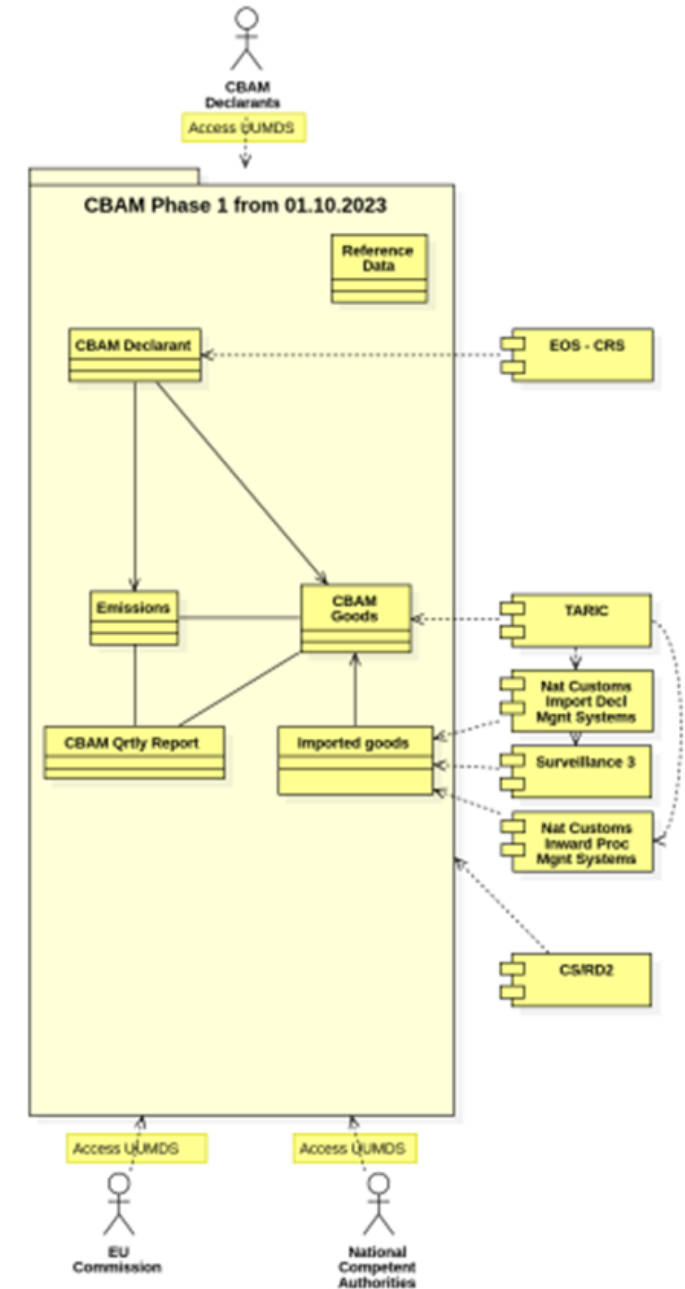
# CBAM Phased Deployment



# CBAM Transitional System- Phase I

CBAM introduces measures for the Importers, for the EU Authorities in charge of CBAM, the Commission and the MS Customs Administrations:

- **Importers** have to file CBAM Periodic Reports to the CBAM system
- **Commission** services will supervise and coordinate CBAM system operations and compliance to the provisions of the CBAM regulation
- **MS Customs Administrations** will notify EOs for their obligations arising from CBAM Regulation and report the imports of CBAM products of a specific period via the existing Surveillance 3 or other temporary means in case of derogation
- **MS Competent Authorities for CBAM** will be responsible for CBAM EOs Accounts management, review of Periodic Reports and will collaborate with Customs and Commission services to ensure compliance to the provisions of the CBAM regulation



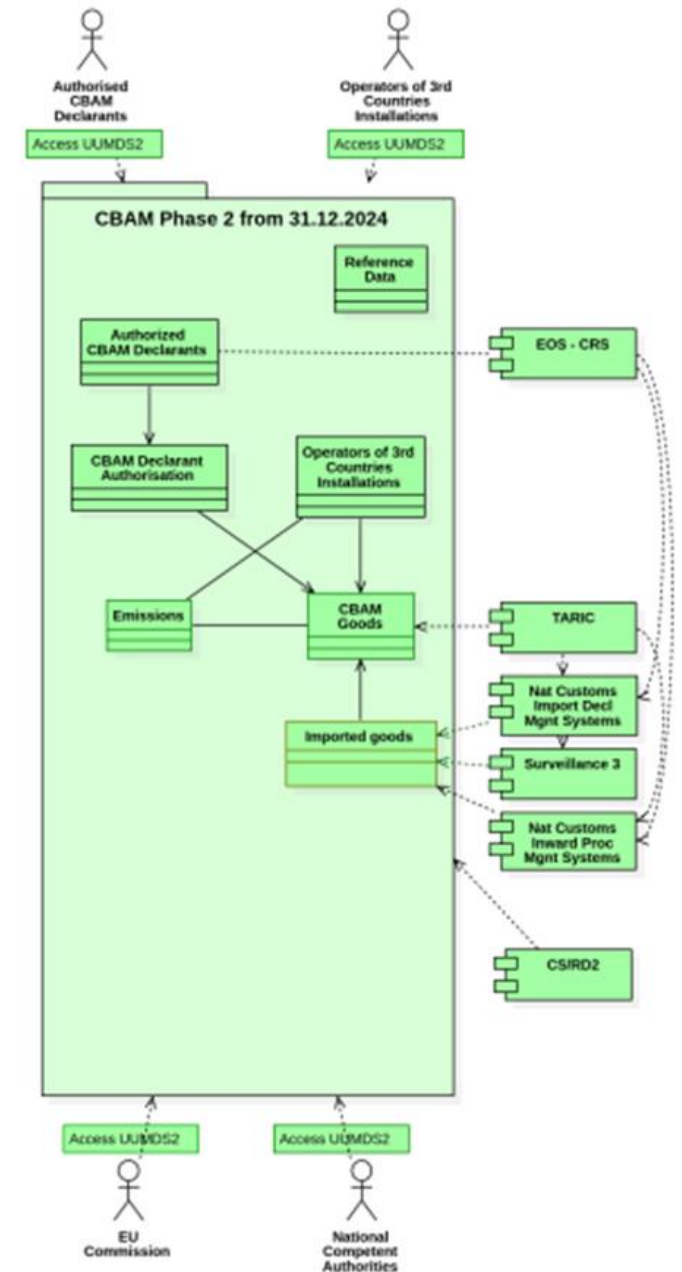
# Access Management for CBAM

- The CBAM system will use the services of the UUM&DS platform and EU Login service to identify, authenticate and authorize all CBAM Portal users.
- A CBAM domain will be introduced in UUM&DS and the CBAM Declarants' authorizations will be managed by the NA Authorities exclusively in the CBAM domain.
- UUM&DS will be enabling access to CBAM portals for the following user audiences:
  - **CBAM Importers and Indirect Representatives** accessing the CBAM Declarants Portal over the Internet
  - **European Commission** accessing the CBAM EU Authorities Portal over the SNET
  - **National Competent Authorities** accessing the CBAM EU Authorities Portal over the Internet
- MS should decide whether MS Customs or other Competent Authorities will manage the Economic Operator accounts and authorisations for CBAM using the existing federation scheme or registering centrally the user accounts and manage the authorisations
- MS will appoint competent authorities for CBAM purposes which could be Customs or other National Authorities following the formal adoption of the Regulation on 10/05

# CBAM System- Authorization Management

The second part of CBAM will be deployed to operations in Q1 2025 including the following services:

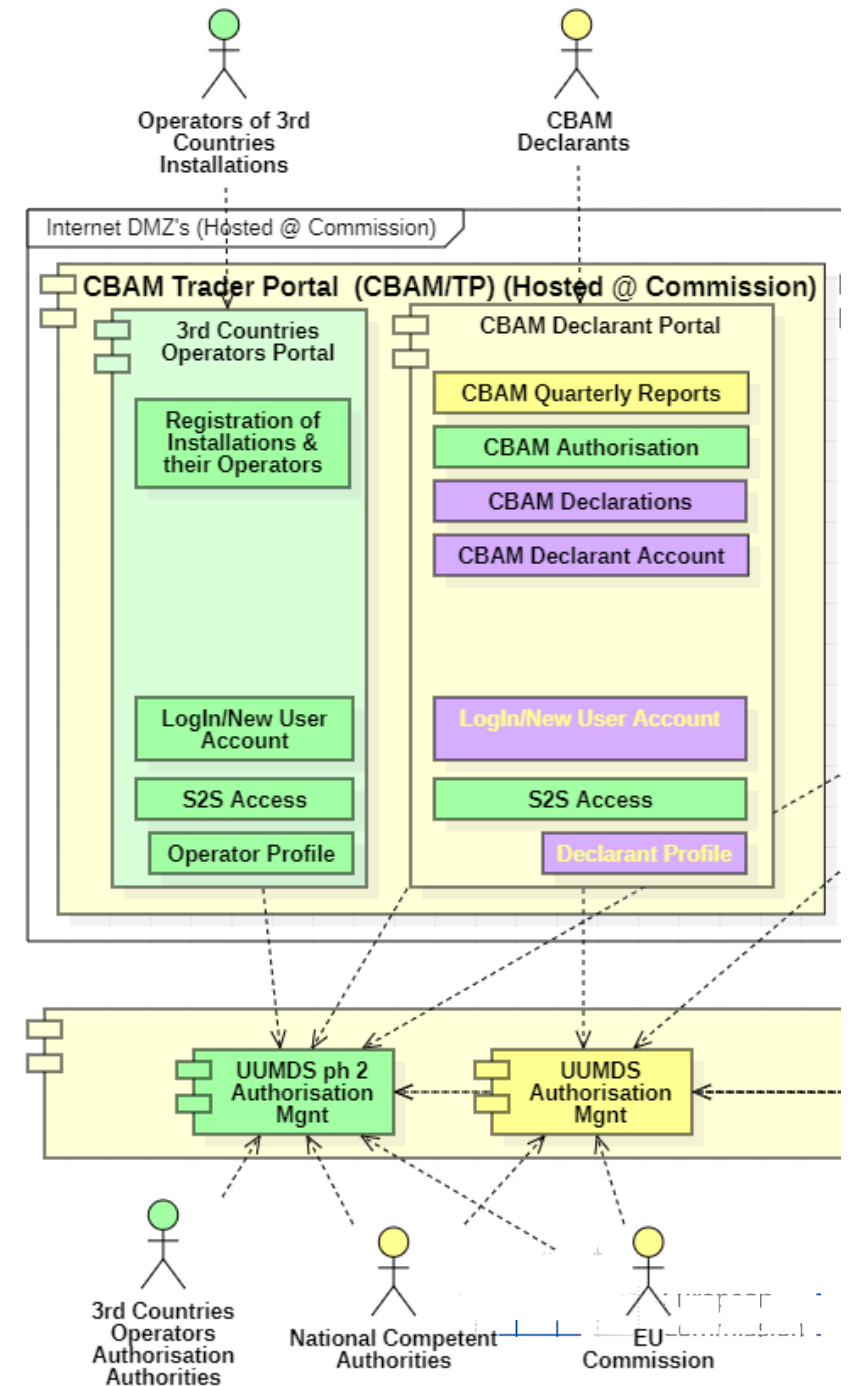
- The CBAM central system should allow EU Economic Operators in their role of declarant for Import to apply for a **CBAM Authorisation** which EU Competent Authorities will validate and monitor through their lifecycle including granting the authorisation, assessing the use of the authorisation and even deciding to revoke an authorisation if the authorised declarant does not comply to his obligations. All authorisations will be registered in the CBAM registry.



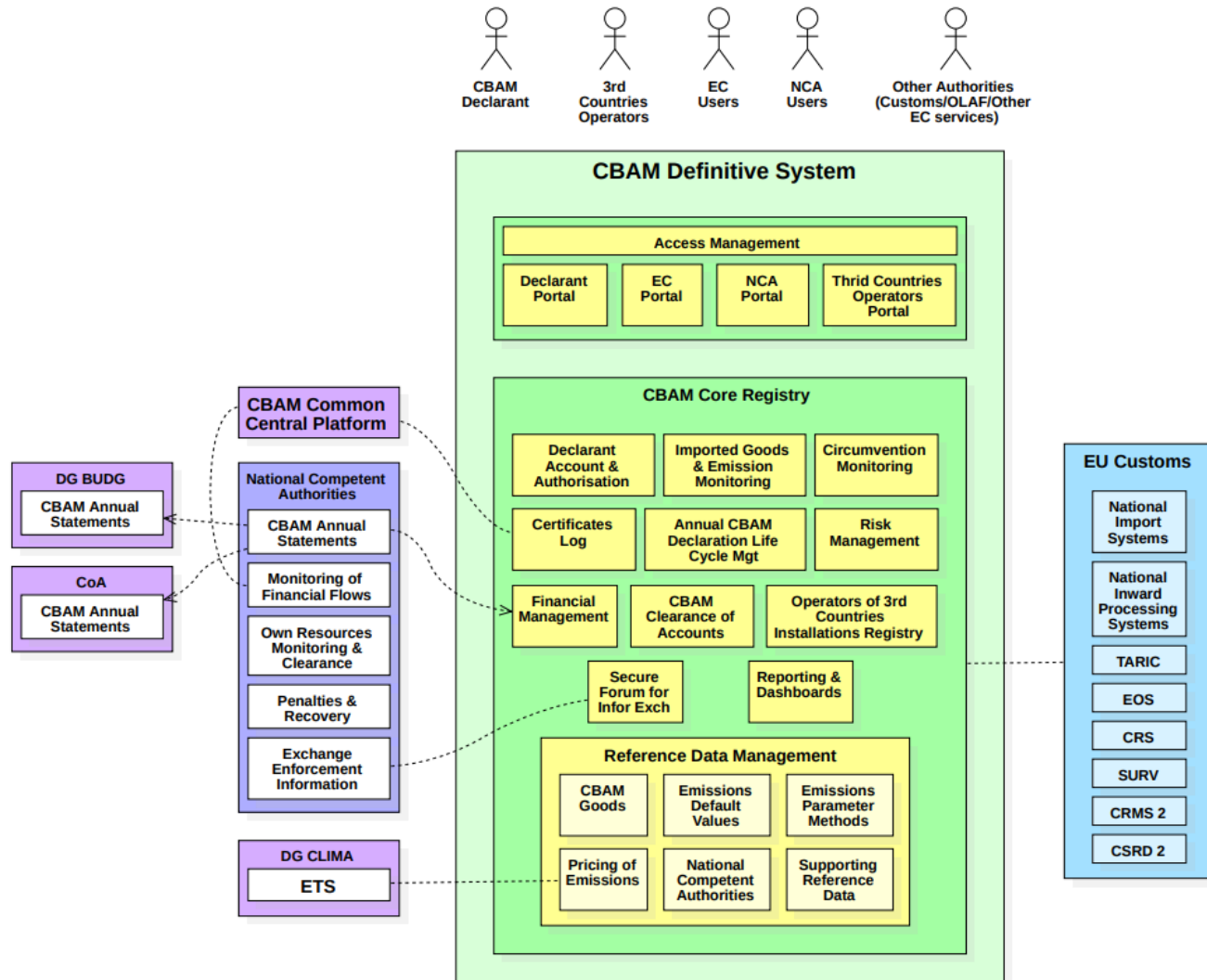
# CBAM System - 3<sup>rd</sup> Country Operators and Installations

The second part of CBAM will be deployed to operations in Q1 2025 including the following services:

- The CBAM central system should allow **operators of production installations in third countries to register in the CBAM registry** and to make their verified embedded GHG emissions from production of goods available to authorised CBAM declarants. The Commission should manage the CBAM registry containing data on the authorised CBAM declarants, operators and installations in third countries.



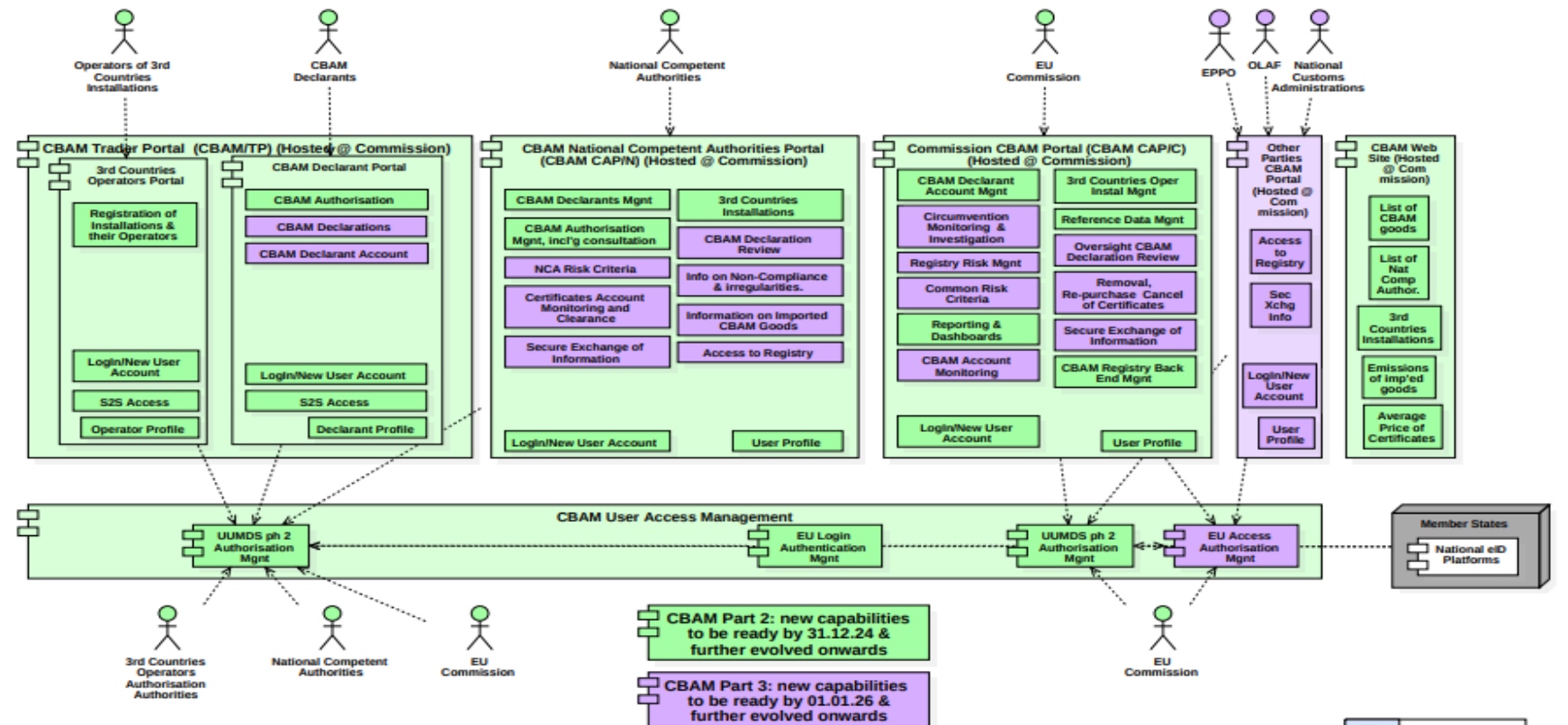
# CBAM Definite system overview



- The Definitive CBAM System will be deployed to operations in Q1 2026 including the following services:
- **Declarants of Imports** of CBAM goods must hold a CBAM authorisation to import CBAM goods
- Customs authorities must only allow the **importation of CBAM goods of authorised CBAM declarants**
- The authorised CBAM declarant **submits annually a declaration** of the embedded emissions in the goods imported and surrenders a number of CBAM certificates corresponding to those declared emissions.
- An authorised CBAM declarant should be allowed to claim a **reduction in the number of CBAM certificates for the carbon price paid elsewhere** for these emissions
- To reduce the risk of carbon leakage the Commission should take action to **address practices of circumvention**
- For the sale and re-purchase of CBAM certificates a **common central platform** should be established
- The COM should **review the content of the CBAM declarations** and involve MS in controls.
- MS should be responsible for the **correct establishment and collection of revenues**

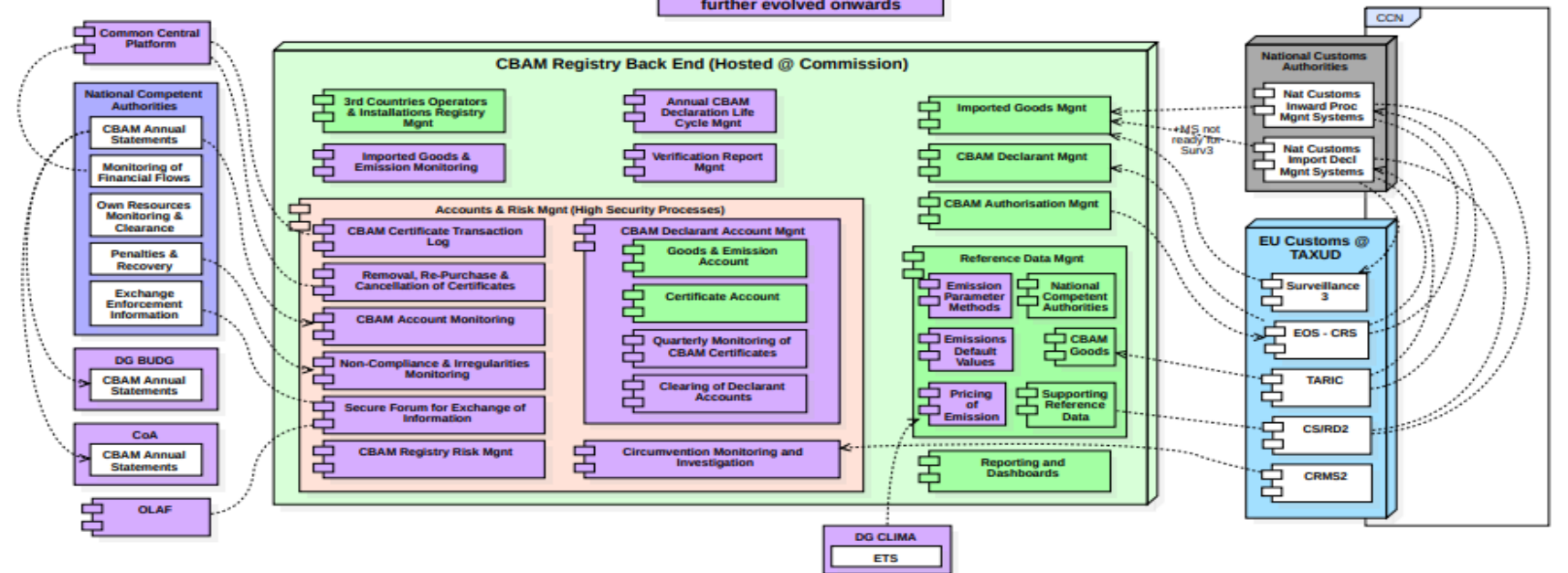


# CBAM Target IT Architecture



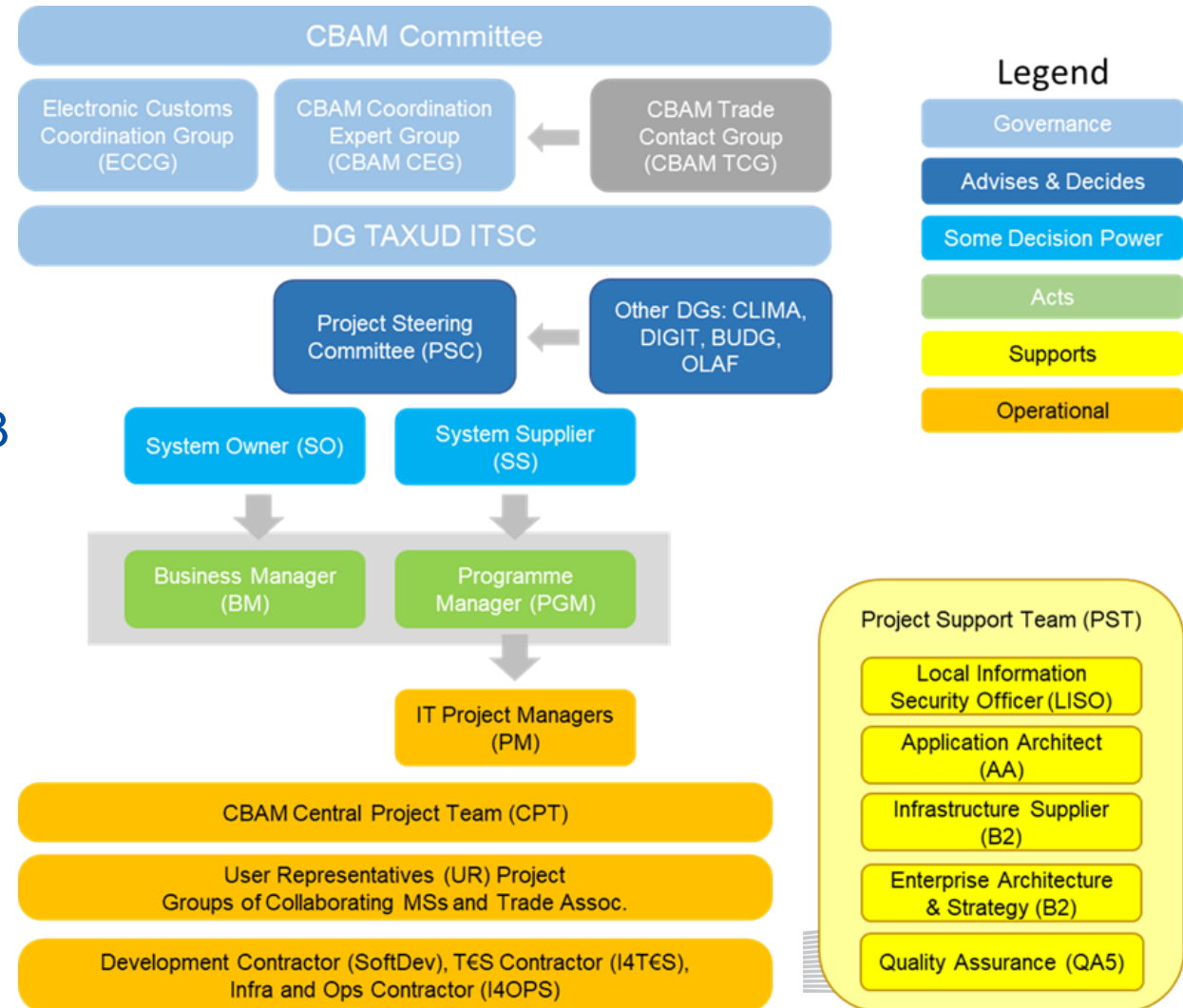
**CBAM Part 2: new capabilities to be ready by 31.12.24 & further evolved onwards**

**CBAM Part 3: new capabilities to be ready by 01.01.26 & further evolved onwards**



# CBAM Governance process

- CBAM Project Charter for Phase 1 validated in Q4 2022-Q1 2023
- CBAM Project has been introduced in MASP-C
- CBAM Project Charter for Phase 2 and 3 will be submitted for validation in July 2023
- A CBAM Expert Group has been set to collaborate with COM on CBAM
- MS should appoint CBAM Competent Authorities in Q2 2023
- The CBAM Steering Governance Organization will be set in Q2 2023



# CBAM Deliverables Planning

The following CBAM deliverables will be shared with the MSs for review

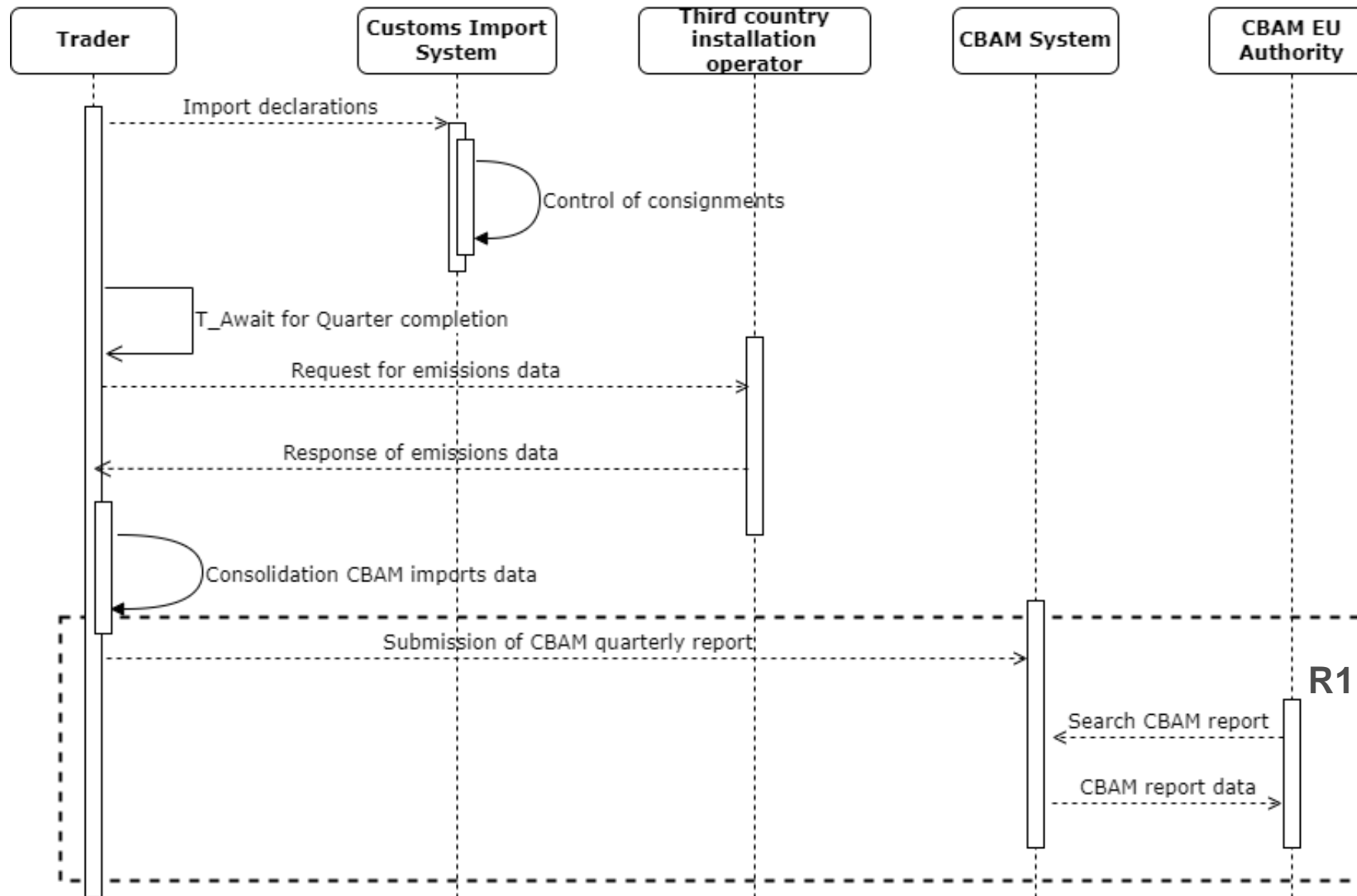
CBAM Deliverable	Date of Publication for review
Technical System Specifications	<b>June</b>
User Manual for CBAM Declarants	<b>July</b>
User Manual for Competent Authorities	<b>July</b>



# CBAM IT Transitional System Release 1

*ECCG Meeting June 2023*

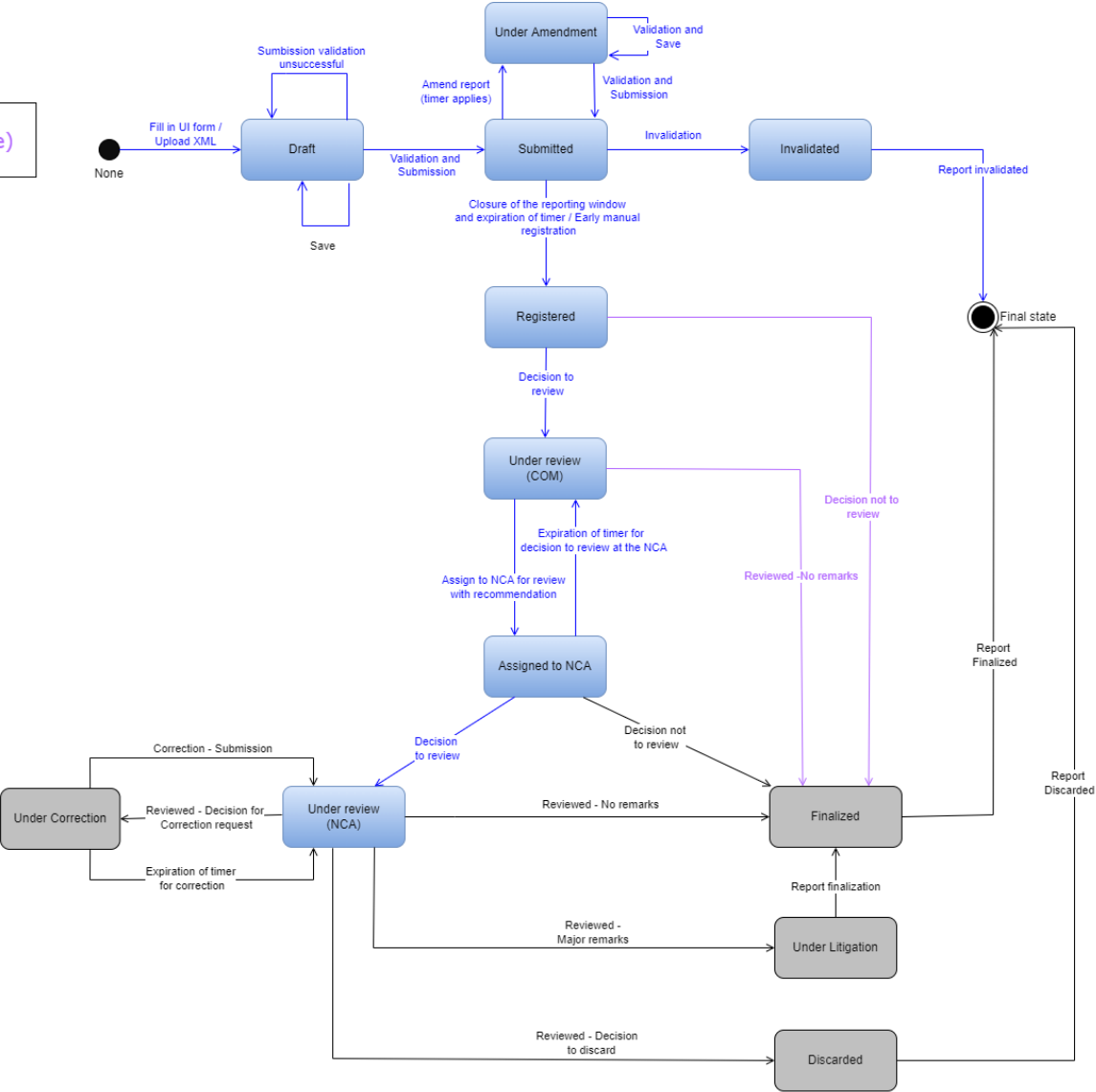
# CBAM Process Model High level overview



# CBAM State transition diagram of CBAM Report

Scope of Release 1 (blue)

Enabled during transition period only (purple)



Declaration after the normal lifecycle can be Revised or Archived, which is not part of the State transition diagram.



# CBAM Declarants – Home Page



Home Page



My Quarterly Reports

more



Installations

more



Operators

more

# CBAM Quarterly Reports Dashboard

My Quarterly Reports

Quarter	Year	Last edited	State	Report	Actions
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Q2	2023	01/06/2023	Submitted	232GR29384758493029501	
Q1	2023			Not Added yet	<a href="#">Create</a> <a href="#">Upload</a>
Q4	2022	01/06/2023	Draft	AM0101	
Q3	2022			Not Added yet	<a href="#">Create</a> <a href="#">Upload</a>
Q2	2022			Not Added yet	<a href="#">Create</a> <a href="#">Upload</a>

Items per page 10  
Showing 1-5 of 5

Navigation icons: Home, Previous, Next, End



# CBAM Quarterly Report Header

## Header info

QR declarant

Importer

National competent authority

Signatures

## Declarant details

Name \*

Demo CBAM 81

Identification number

GR293847584930295 0

Role \*

Indirect representative ▼

## Address

Country of establishment

EC - Ecuador ▼

Sub-division

35

City \*

Nama 31

Street

70

Street additional line

70

Number

35

Postcode

17

P.O. Box

70

## Report confirmation

Date and Place of signature \*

Athens, 01-06-2023 110

Signature (Full Name) \*

Demo CBAM 119

Name and position of person signing \*

Indirect representative 105

I certify that to the best of my knowledge the information provided on this form and attachments is accurate and complete.

## Type of applicable reporting rules confirmation

I certify that to the best of my knowledge the applicable reporting rules used for the calculation of the emissions are equivalent to the CBAM applicable reporting rules.

# CBAM Report - Goods

Draft report ID:  ✓ Cancel Preview Validate Save as draft Submit

QR declarant	Importer	NCA	Reporting Period	Report ID	Issue date	State	Goods imported	Total emissions	Additional information
Demo CBAM			2022 - Q4	-	-	-	1	806.29092	Add remarks

### Header info

#### Goods imported

[Add a good](#)

**1. 72061000 | US**  
512.256 Tonnes | 806.29092 Tonnes  
2 emissions

[Add an emission](#)

1.1. US | Fort Knox Metal works

1.2. BS | Largo Furnaces

#### 1. 72061000 | US

512.256 Tonnes | 806.29092 Tonnes

**Essentials** Parameters Supplementary

**Commodity**

HS sub-heading code \*  × CN code \*  ▼ Description of goods \*  508

**Country of origin**

Country code \*  ▼

**Imported quantity per customs procedure**

[Add new](#)

**1.EU, 01** ^

**Area of import**

Area of import  ▼ **Procedure**

Requested procedure \*  ▼ Previous procedure  ▼

**Goods measure (per procedure)**

Net mass \*  ▼ **Type of measurement unit \***

▼ **Special references for goods**

Additional information  512

**Goods measure (imported)**

# CBAM Report - Emissions

## 1.2. BS | Largo Furnaces

Installations **Emissions** Parameters Carbon price paid Supplementary

### Goods measure (produced)

Net mass \*

153.6768

Type of measurement unit \*

Tonnes

### Direct embedded emissions

Type of determination \*

Actual data

Type of applicable reporting rules \*

Other

Applicable reporting rules \*

CBAM Regulation, MRV based on Bahamas' laws

Specific (direct) embedded emissions \*

0.47

Type of measurement unit \*

Tonnes

### Indirect embedded emissions

Type of determination \*

Actual data

Type of measurement unit \*

Tonnes

Source of emission factor \*

Other

Source of electricity \*

Received from the grid

Electricity consumed \*

0.74

Emission factor \*

0.628

Specific (indirect) embedded emissions

0.46

Other source indication \*

TRE

### Installation emissions

Installation overall emissions

142.91941

Installation direct emissions

72.22809

Installation indirect emissions

70.69132

Type of measurement unit for emissions \*

Tonnes

# CBAM Report – Parameters

## 1.2. BS | Largo Furnaces

Installations Emissions **Parameters** Carbon price paid Supplementary

### Production method

#### 1.P17, Blast furnace / Basic oxygen steel making

Method

P17 - Blast furnace / Basic oxygen steel making

Additional information

512

### Direct Emissions qualifying parameters

Add new

#### P17, Blast furnace / Basic oxygen steel making

##### 1. Scrap used

Scrap used - EQP10 (PERCENTAGE) ⓘ

Use default value

18.30

Type of determination

Value  %

Additional information

##### 2. Main reducing agent (Coke /Coal/ natural gas/ Hydrogen/ other)

# CBAM Report – Carbon Price paid

## Carbon price paid

Add new

1. US, 134799.6 € Delete ^

Country code *	Type of instrument *	Instrument reference description *	
<input type="text" value="US - United States"/>	<input type="text" value="Carbon tax"/>	<input type="text" value="Carbon tax"/> <span>502</span>	
Declared amount *	Currency *	Exchange Rate to Euro *	Amount (EURO)
<input type="text" value="1200"/>	<input type="text" value="USD - US Dollar"/>	<input type="text" value="112.333"/>	<input type="text" value="134799.6"/>

## Products covered under price paid

Add new

1. Other materials ^

Type of product *	Quantity of emissions covered *	Quantity covered for free allocation *	CN of Product covered *
<input type="text" value="Other materials"/>	<input type="text" value="123.55"/> t CO <sub>2</sub>	<input type="text" value="80"/> t CO <sub>2</sub>	<input type="text" value="72601000"/>

Supplementary information

# CBAM Report – Supplementary

## Emission's additional information

Add new

### 1. Text for Demo

Delete

Additional information

Text for Demo

499

## Supporting documents

Add new

### 1. TED05, US

Delete

Type \*

TED05 - Other

Country of document issuance

US - United States

Reference number \*

AS345000

Document line item number

Issuing authority name

Validity start date

Validity end date

dd/mm/yyyy

dd/mm/yyyy

Description

File

The allowed file types for upload are: PDF, DOC, DOCX, XLS, XLSX, JPEG, XML The maximum allowed file size is 20 MB

Choose file

Drag and drop file here

URI

# CBAM Report – Report Control Center (1)



## Report control center

Search for quarterly reports

### General

Report ID:

Report state:

NCA:

Year:

Quarter:

Report Issue date: From  To

### Economic Operators

Declarant EORI:

Declarant establishment country:

Importer ID:

Importer establishment country:

# CBAM Report – Report Control Center (2)

<input type="text"/>	select	dd/mm/y...	dd/mm/y...
----------------------	--------	------------	------------

<b>Economic Operators</b>			
Declarant EORI	Declarant establishment country	Importer ID	Importer establishment country
<input type="text"/>	select	<input type="text"/>	select

<b>Aggregated emissions criteria</b>				
CN code	Country of origin	Requested procedure	Good overall emissions from	Good overall emissions to
<input type="text"/>	select	select	<input type="text"/>	<input type="text"/>
Good direct emissions from	Good direct emissions to	Good indirect emissions from	Good indirect emissions to	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
CO2 tonnes/unit of product from	CO2 tonnes/unit of product to	Goods imported quantity from	Goods imported quantity to	
<input type="text"/> t CO2	<input type="text"/> t CO2	<input type="text"/>	<input type="text"/>	

<b>Detailed emissions criteria</b>				
Installation name	Operator name	Overall emissions from	Overall emissions to	
<input type="text"/>	<input type="text"/>	<input type="text"/> t CO2	<input type="text"/> t CO2	
Direct emissions from	Direct emissions to	Specific direct emissions from	Specific direct emissions to	Direct type of Determination
<input type="text"/> t CO2	<input type="text"/> t CO2	<input type="text"/> t CO2	<input type="text"/> t CO2	select
Indirect emissions from	Indirect emissions to	Specific indirect emissions from	Specific indirect emissions to	Indirect type of Determination
<input type="text"/> t CO2	<input type="text"/> t CO2	<input type="text"/> t CO2	<input type="text"/> t CO2	select



# CBAM Report – Report Control Center (3)

## Applied criteria

Year **2023** | Declarant establishment country **Germany** | Good direct emissions **3,18 - 5,43** | Good indirect emissions **> 3,18** | CO2 tonnes/unit of product **< 6,57**

## 4 Quarterly Reports were found

Quarterly Reports							Export results	Actions <span>▼</span> ⓘ
Report ID <span>↕</span>	Goods <span>↕</span>	Declarant EORI <span>↕</span>	Importer ID <span>↕</span>	NCA <span>↕</span>	State <span>↕</span>	Issue date <span>↕</span>	Reporting period <span>↕</span>	
<b>AE1234GR32343GTR45</b>	2 items <span>▼</span>	13GR45JUY2ECDI	13GR45JUY2	1JUTK4587	Registered	23/02/2023	2022 - Q4	
	CN code <span>↕</span>	Country of origin <span>↕</span>	Total Quantity <span>↕</span>	Total emissions <span>↕</span>	Total direct <span>↕</span>	Total indirect <span>↕</span>		
	22003245	TR - Turkey	5,43	4,32	2,32	2,00		
	22003246	CN - China	5,67	5,87	3,87	2,00		
<b>234GTR484242BCHJ12</b>	3 items <span>&gt;</span>	23RGR346724464	44645611LOP	OLJH765F	Finalized	23/02/2023	2022 - Q3	
<b>R456JKLER345609L21</b>	1 item <span>&gt;</span>	GHY1245BFIOLE3	245BFIOLE9I	BNKI9853	Finalized	23/02/2023	2022 - Q2	
<b>RTYER3456723GH5631</b>	4 items <span>&gt;</span>	VSGQ46575865UE	865UEGDIOP	MLH67HGB	Registered	23/02/2023	2022 - Q1	

Items per page **4** ▼  
Showing 1-10 of 10

⏪ ⏩ ⏴ ⏵

# Import Declarations Data from SURV/National Import Systems

SURVEILLANCE / NATIONAL IMPORT SYSTEM
ISSUER
DATA RECORD REFERENCE
DATA RECORD VERSION NUMBER
DATA RECORD VERSION STATUS
IMPORT DECLARATION NUMBER
DECLARATION GOODS ITEM
DECLARATION ACCEPTANCE DATE
REQUESTED PROCEDURE CODE
PREVIOUS PROCEDURE CODE
COUNTRY OF ORIGIN CODE
COUNTRY OF PREFERENTIAL ORIGIN CODE
COUNTRY OF DESTINATION CODE
COUNTRY OF DISPATCH
DESCRIPTION OF GOODS
HARMONISED SYSTEM SUB-HEADING CODE
COMBINED NOMENCLATURE CODE
TARIC CODE
NET MASS
STATISTICAL VALUE
SUPPLEMENTARY UNITS
DECLARATION TYPE
ADDITIONAL DECLARATION TYPE
FORMAT
IMPORTER IDENTIFICATION NUMBER
IMPORTER COUNTRY
CONSIGNEE IDENTIFICATION NUMBER
DECLARANT IDENTIFICATION NUMBER
HOLDER OF AUTHORIZATION IDENTIFICATION NUMBER
HOLDER AUTHORIZATION TYPE
HOLDER_AUTHORIZATION REFERENCE NUMBER
REPRESENTATIVE IDENTIFICATION NUMBER
MODE OF TRANSPORT AT THE BORDER
INLAND MODE OF TRANSPORT

\* Goods/part of the goods that previously were under inward processing and finally are consumed in EU should also be subject of reporting

# EO Data from EORI shared through CRS

EOS EORI field description
<b>Customer Identification</b>
EORI country + EORI national Number
EORI country
EORI start date
EORI expiry date
<b>Customs Customer Information</b>
EORI short name
EORI full name
EORI language
EORI establishment date
EORI person type
EORI economic activity
<b>List of EORI establishment addresses</b>
Establishment addresses
EORI Address
EORI language
EORI name
Establishment in union
EORI address start date
EORI address end date
<b>VAT or TIN numbers</b>
“VAT” or “TIN”
National identifier + VAT or TIN number Concatenate country with national identifier
<b>EORI legal status</b>
EORI legal status language
EORI legal status
EORI legal status begin date & end date
<b>Contact list</b>
<b>Contact</b>
EORI contact address
EORI contact language
EORI contact full name
EORI contact name
<b>Publication agreement flag</b>

Address fields description
Street and Number
Postcode
City
Country code
<b>List of communication details</b>
Communication type

# CBAM Quarterly Report - Data Model



message structure cbam report-v14.10.png



Thank you!

Do you have any questions?