



# EMSA's Central Location Database





# Introduction to EMSA

- **EMSA is a community agency of the European Union with its own legal identity**
  - one of >30 agencies in the EU
- **Over 280 employees (recruitment of staff started in 2003)**
- **Domains of the Agency:**
  - Maritime safety
  - Preventing/responding to pollution from ships& offshore installations
  - Ship security
  - Vessel traffic monitoring
- **Vision:** EMSA's vision is to be the centre of excellence for a safe and sustainable EU maritime sector.





# LOCODEs in EMSA's maritime applications

- The identification of a particular locations/ports is required in international trade and transport to identify movements of ships and goods.
- Unique and harmonised database with location codes was necessary to be established to avoid confusion and difficulties for data exchange and to ensure that all systems “speak” the same language.
- **Central Location Database (CLD)** is used as a reference for locations by all maritime applications of the SSN ecosystem as well as national systems of the Member States (SSN and NSW).





# Roles and responsibilities

## National Competent Authority (NCA)

- maintains up-to-date lists of LOCODEs within its own National SSN;
- coordinate the creation/deletion/updates of UN/LOCODEs with those authorities at MS officially designated to manage the UN/LOCODEs.

## EMSA

- developed and maintains centrally the location codes database (CLD) in order to harmonise the data and to avoid inconsistencies;
- performs quality checks and reports to the MSs on temporary locations, rejections caused by the LOCODEs (invalid LOCODEs, not permitted locations)





# Database content

## I. Location identification

- Location code - Unique identifier of the location (Mandatory)
- Location Name with diacritics (Optional)
- Location Name without diacritics (Mandatory)
- Comments (Optional)
- Country (Mandatory)
- Type – UNECE or SSN Specific (Mandatory)
- Function [in line with UNECE (1 is Port, 2 is Rail Terminal, etc.)] (Optional)
- Status (Active/Inactive) (Mandatory)

## II. Location position (Optional)

- Latitude
- Longitude

## III. Location attributes (Optional)

- Other Location Names
- Subsidiary Location
- Is a location in a Sulphur Emission Control Area (SECA)





# Database content

## III. Location attributes (Optional) – cont.

- Is a location an EU Border Inspection Post (BIP)
- Is a location in the list of designated EU ports where transshipment and/or landing operations of fishery products are authorised according to EC Regulation 1005/2008

## IV. ISPS Port facilities (Optional)

- Port Facility Name
- Port Facility Description
- Port Facility LOCODE
- Port Facility GISIS code
- Port Facility Coordinates
- Latitude
- Longitude

## V. Port Reception Facilities (Optional)

- EMSA PRF ID
- Waste Type
- Type of Facility
- Service Provider details
- Discharge restriction/limitations

## VI. Location images (Optional)

## VII. Location areas (Optional)

## VIII. EMSA Applications (Mandatory) - identification of the maritime application for which LOCODE is active.





# LOCODEs in EMSA's applications

**PORTS AND OFFSHORE INSTALLATIONS**

- Function
- Type
- EU Border Inspections (BIP)
- Transhipment of fishery products

Stat	Longitude	016° 35' 39" E	Port Of
Futu	<b>E - True Course</b>		20:00 (E
	Course	337.9	
Previ	<b>F - Speed</b>		Call ↓
Stat	Speed	12.4	
Clos (ATE)	<b>G - Port of departure</b>		ATA)
Clos (ATE)	Last Port of Call	Novorossiysk (RUNVS)	ATA)
Clos (ATE)	<b>I - Destination and expected time of arrival</b>		ETA)
Clos (ATE)	Port of Arrival	Trieste (ITTRS)	ETA)
Clos (ATE)	Arrival Datetime	2024-04-11T23:00:00Z	ETA)
Clos (ATE)	<b>O - Maximum presentstatic draught in metres</b>		ATA)
Clos (ATE)	Present Draught	13.2	ATA)
Clos (ATE)		(ITTRS) Italy	ATA)





# Statistics

## Use of LOCODEs in SSN:

- Over 24 million times in a year (2022)
- Over 2 million times in a month
- Over 65 thousand times in a day

Member State	Shipcalls			MRS	Incident Reports	Total
	New	Updates	Cancelations			
<b>Belgium</b>	25,945	400,243	932	601	35	<b>427,756</b>
<b>Bulgaria</b>	3,476	22,011	98	-	2	<b>25,587</b>
<b>Croatia</b>	10,213	35,636	39	8,426	75	<b>54,389</b>
<b>Cyprus</b>	3,541	44,076	88	-	1	<b>47,706</b>
<b>Denmark</b>	30,740	91,084	976	59,913	20	<b>182,733</b>
<b>Estonia</b>	10,323	55,741	134	76,719	10	<b>142,927</b>
<b>Finland</b>	32,147	169,465	890	38,711	151	<b>241,364</b>
<b>France</b>	58,970	364,946	3,977	145,938	1,117	<b>574,948</b>
<b>Germany</b>	54,878	247,809	686	-	40	<b>303,413</b>
<b>Greece</b>	323,713	985,971	3,910	-	88	<b>1,313,682</b>
<b>Iceland</b>	3,471	6,927	255	910	-	<b>11,563</b>
<b>Ireland</b>	13,747	56,344	102	80	11	<b>70,284</b>
<b>Italy</b>	69,150	454,840	1,684	23,208	627	<b>549,509</b>
<b>Latvia</b>	6,652	40,634	118	-	14	<b>47,418</b>
<b>Lithuania</b>	4,745	48,070	163	-	71	<b>53,049</b>
<b>Malta</b>	11,137	59,296	1,099	-	10	<b>71,542</b>
<b>Montenegro</b>	978	1,948	7	-	-	<b>2,933</b>
<b>Netherlands</b>	54,085	740,632	2,911	-	94	<b>797,722</b>
<b>Norway</b>	157,894	907,587	11,006	1,012	16	<b>1,077,515</b>
<b>Poland</b>	17,435	188,866	843	23,960	87	<b>231,191</b>
<b>Portugal</b>	11,818	83,914	1,074	7,921	24	<b>104,751</b>
<b>Romania</b>	5,708	40,109	311	-	2	<b>46,130</b>
<b>Slovenia</b>	3,372	17,645	86	1,636	2	<b>22,741</b>
<b>Spain</b>	170,471	1,156,559	14,321	131,057	77	<b>1,472,485</b>
<b>Sweden</b>	50,145	358,740	2,427	-	74	<b>411,386</b>
<b>Total</b>	<b>1,134,754</b>	<b>6,579,093</b>	<b>48,137</b>	<b>520,092</b>	<b>2,648</b>	<b>8,284,724</b>

**Table:** Number of notifications exchanged in SSN in 2022







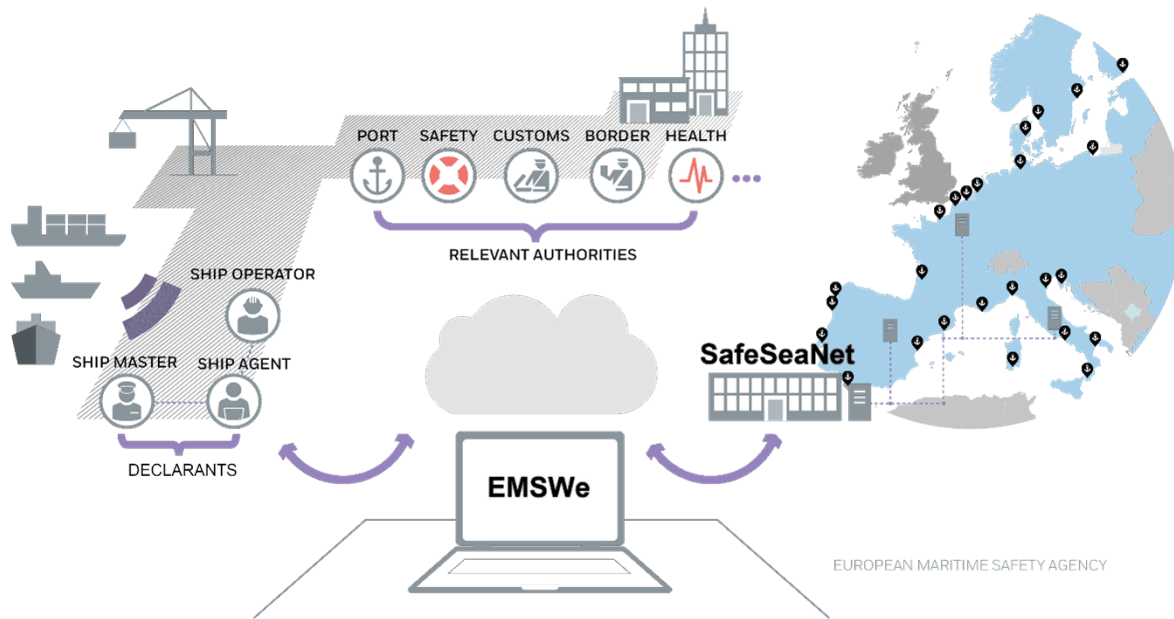
# Feedback from EMSA users on LOCODEs

- Missing or inaccurate geographical position;
- Incorrectly assigned function;
- Duplicated locations;
- Sea ports not distinguished from inland ports;
- No web service for receiving data from UN/LOCODE list.





# European Maritime Single Window environment (EMSWe) – Regulation (EU) 2019/1239



European Maritime Single Window environment ('EMSWe') means the legal and technical framework for the electronic transmission of information in relation to reporting obligations for port calls in the Union, which consists of a network of maritime National Single Windows with harmonised reporting interfaces and includes data exchanges via SafeSeaNet and other relevant systems as well as common services for user registry and access management, addressing, ship identification, location codes and information on dangerous and polluting goods and on health.





# EMSWe Common Location Database

## *Article 15*

### **Common Location Database**

1. The Commission shall establish a common location database that contains a reference list of location codes <sup>(14)</sup> and port facility codes, as registered in the IMO database GISIS.
2. The Commission shall ensure the availability of the location database to the maritime National Single Windows in order to facilitate ship reporting.
3. Member States shall make information from the location database available at national level through the maritime National Single Window.
4. The Commission shall adopt implementing acts laying down the technical specifications, standards and procedures for the setting up of the common location database referred to in paragraph 1 with respect to collecting, storing, updating and provision of the location and port facility codes. Those implementing acts shall be adopted in accordance with the advisory procedure referred to in Article 24(2).

The first such implementing act shall be adopted by 15 August 2021.





# Technical specifications – Implementing Regulation (EU) 2023/204 – Annex VI

The ECLD shall allow the collection, storing, updating and provision of:

- United Nations Code for Trade and Transport Locations (UN/LOCODE)
- IMO GISIS port facilities
- SafeSeaNet specific codes

## Available interfaces and services

- System to System interface:
  - Announcement service used to distribute to MNSW the latest details at each modification (creation, update or deletion), as well as the full list of location and port facility information upon subscription
- Web interface accessible to national coordinators for:
  - Consulting the content of the ECLD
  - Downloading the list of location and port facility codes based on different criteria in different formats





# Procedure for updating

- **UN/LOCODE:** Synchronisation with the UN/LOCODE at least twice a year.
- **Port facilities:** automatic link between the ECLD and the IMO GISIS. Request twice a day the list of changes in the IMO GISIS Maritime Security module.
- **SafeSeaNet specific codes:** updates in SafeSeaNet Central Location Database shall be available immediately.





# Technical solution

ECLD will replicate information from EMSA's Central Location Database (CLD)

- Locations and port facilities data will be maintained by EMSA

Graphical User Interfaces will be available to National EMSWe Coordinators

- GUIs will be accessible through EMSA's Portal
- ECLD: existing GUI of EMSA CLD

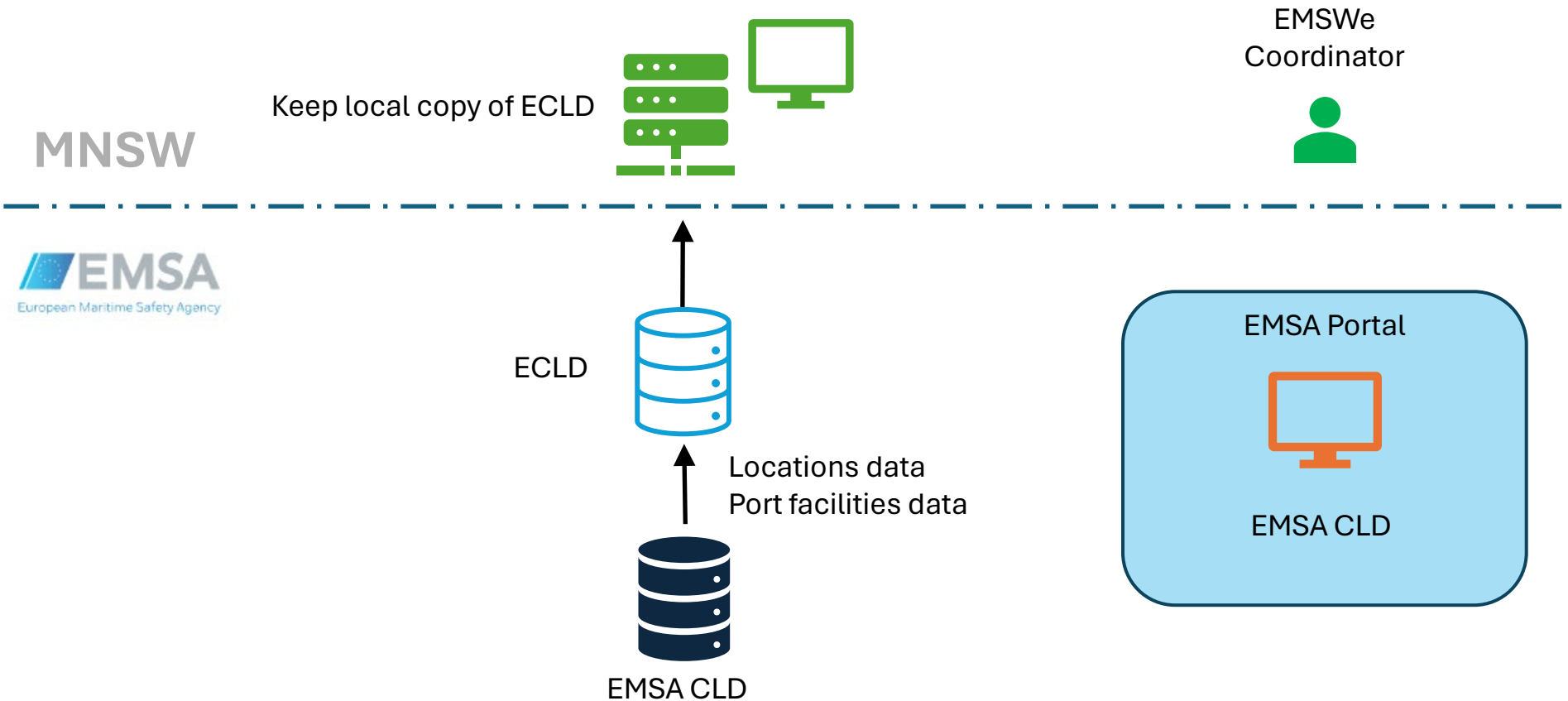
System-to-system services

- Data retrieval service to download the full data from ECLD. To be used for initiating the local copy of the database.
- Announcement service to receive data updates from ECLD.





# Technical solution





# Time Plan

'Common components and services	Baseline									
	2023			2024				2025		
	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	
Common Location Database (CLD)										
Reference dataset and SIG										
Central database development										
Integration with Member State systems										
Commissioning tests										

