

Appendix P

to Tender Specifications

Central Organizations Database COD

The Central Organisation Database (COD)

What it is

COD (refer also to Figure 1 COD in the context of SSN Ecosystem the below) is the central repository of the Organisations. COD stores, for all the organisations listed in it, information such as the Organisation Name, its geographic locations, its postal address, the functions executed according to the Organisation's mandate (e.g. Security authority, waste authority, MRCC) and, the "application-dependent" categories the Organisation (e.g. SSN NCA, SSN CST). Furthermore, for Maritime Authorities with a role in the shore-based sea traffic monitoring and for the purposes of the STMID¹ project, COD incorporates additional data, such as:

1. Information on the very specific "duties", that is daily tasks, which an Authority could be assigned to perform in relation, or independently, to their "functions". The "duties" shall be stored in COD with all their relevant attributes. That is, if e.g. the execution of a duty for an organisation is limited to a specific geographical area (whose geographical representation is stored in the CGD), a "reference" key and a textual description of the area will be stored in the COD (for the specific duty).
2. Additional "contact" information such as the Unit or Department Name, Website, Inmarsat call details, Inmarsat SAR NET info, "watch" frequencies (MMSI of the VHF / MF equipment and VHF / MF channel assignment), AFTN, Telex.

A complete list of the COD data elements as well as an indicative list of functions/ duties for the Organisations listed in COD is included in the Appendix of the document.

¹ The Shore-based Traffic Monitoring Infrastructure Database is project agreed between EMSA and MS. STMID-specific data shall be stored in the COD.

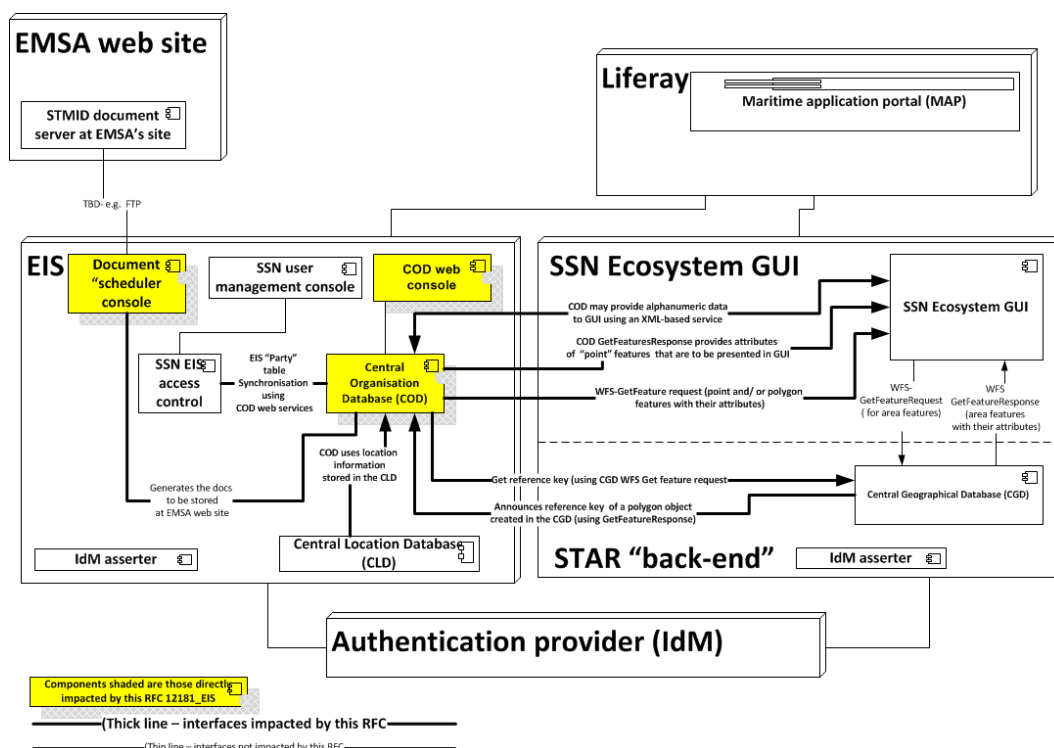


Figure 1 COD in the context of SSN Ecosystem

The Figure 1 COD in the context of SSN Ecosystem provides the overall architecture of the COD within the context of the SSN Ecosystem, and it shows the main interactions among the SSN Ecosystems components.

It is Important to note that the management of access rights for the COD, for the expected release only, shall be executed via the SSN EIS user management console. User access management of the COD shall be “migrated” to the Common Management Console (CMC) of EMSA following the implementation of the first operational release of the CARD application. The table below identifies the main level of access that has to be implemented in the COD release compliant with SSNv3.2.

Table 1 COD access levels

Access level	Notes
Full Access for COD data management	Web users only. This access level is normally granted to EMSA administrators of the COD
“Country” level access for data management	Web users only. This access level is normally granted to National

	administrators of the COD
Full access for data consultation	Web users and/ or system users.

COD web services

The COD data will be made available to all the SSN Ecosystem applications (including the EODC) via SOAP-based web services. The following mechanisms are implemented:

- Request/Response. A client can request the content of organisation records in the COD based on different criteria (e.g. country of the Organisation, name of the organization, principal location). The request/ response mechanism could be also used for the retrieval of a journal of changes in individual organization record in the COD over the time (Organisation record “logs”).
- An Organisation notification web-service. A client may use this service to provide feedback information to the COD concerning updates on organization information in the ES application database.
- Organisation data announcement ("push"). This service is used by the COD to announce to a client, previously subscribed to the service, the creation of a new record or the change on data stored in the COD for an Organisation.

COD supports of the following types of requests:

- a. Request of a full list of Organisations including all attributes.
- b. Request of full list of Organisations created, updated or de-activated after a certain date (including all attributes).
- c. Request of the “top-level” Organisations (Organisations without a “parent” for a given Central Country database (CCD) reference).
- d. Request of Organisations matching a combination of criteria: e.g. Country/ Institution the organization belongs, Parent Organization, Name, Function (or List of function), Duty (or List of duties), postal address location.
- e. Request of the reference id (in the COD) of a geographical area associated to a given duty for a given organisation.

APPENDIX – COD DATA ELEMENTS, LISTS OF FUNCTIONS/ DUTIES

Legend: Occ=1 Mandatory, Occ=0-1 Optional.

Table 2 COD Data elements list (subject to further refinements)

Group/ Element Name	Definition	Occ
Organisation Details		1
Organisation ID	Unique identifier of the organisation defined by the COD	1
Organisation Name	Name of the organisation without diacritics	1
Organisation Type	Indicates whether it is a public or a private organisation	1
Local Language Name	Organisation name in local language	0-1
Unit or Department Name	Additional details to the organisation name	0-1
LRIT ID	The requestor ID to be used by the LRIT EU DC to perform SAR requests. Applicable to MRCCs.	0-1
Parent Organisation ID	Unique identifier of the parent organisation	0-1
Country or Institution	Country or Institution which the organisation belongs to	1
Status	Indicates whether the organisation is active or inactive. An inactive organisation cannot be edited, published, provided to external systems	1
Visibility	This indicates whether the organisation will be included in the public PDF files generated by the system and published on the EMSA website	1

Group/ Element Name	Definition	Occ
Location	Geographical location of the organisation. It may ne provided either as a location code or a geographical position	0-1
Location Code		0-1
Coordinates		0-1
Latitude		1
Longitude		1
Contact Information		0-1
Address	Postal address of the organisation	0-1
Street and number		0-1
Postal Code		0-1
City		0-1
Address' Country		0-1
Email		0-1
Phone Number		0-1
Fax Number		0-1

Group/ Element Name	Definition	Occ
E-mail 24/7		0-1
Phone Number 24/7		0-1
Inmarsat call details		0-1
Inmarsat SAR NET		0-1
VHF channels		0-6
VHF DSC MMSI		0-1
MF channels		0-6
MF DSC MMSI		0-1
AFTN		0-1
Telex		0-1
Website		0-1
Organisation Duty	A task that the organisation is responsible for	0-N
Duty Code	Unique ID code for the duty	1
Duty Name	Short description of the duty	1
Duty Description	Full description of the duty including for instance the legal basis	0-1

Group/ Element Name	Definition	Occ
Area of responsibility	Area where the organisation's duty applies. This may be either a list of geographical areas or a list of individual locations	0-1
Location Code	List of individual locations	0-N
Area	Identification of the area in the Central GeoReference Database (CGD)	0-1
Area ID	Unique ID code of the area in the CGD	1
Area Category		1
Area Name	Name of the area in the CGD	1
Area Description	Textual description of the area in the CGD	0-1
Geographical position	Definition of the area as a list of positions forming a polygon	0-99
Latitude		1
Longitude		1
EMSA Application	Type of the organisation for each maritime application	0-99
Application	Identification of the maritime application	1
Organisation Category Code	ID code of the Category of the organisation in the maritime application. The list of categories is maintained in the COD.	1

Group/ Element Name	Definition	Occ
Organisation Category Description	Textual description of the Category	0-1
IsActive	Whether the organisation is used by the maritime application	1
Organisation Function	Major role that the Authority plays	0-99
Organisation Function Code		1
Organisation Function Description		1
Change information		1
Date and time of creation	Date and time of the creation of the organisation	1
Created by	SSN User ID of the user who created the organisation	1
Date and time of the last update	Date and time of the last update of any of the data elements. In the case of a new organisation, this is the date and time of the creation.	1
Last update by	SSN User ID of the user who performed the last update. In the case of a new organisation, this is the user ID of the creation.	1

Table 3 COD – List of Duties Indicative)

Duty Name	Duty Description	Associated to an Area	Associated to a list of LOCODEs
SSN National Competent Authority	Article 22a - SSN National Competent Authority (NCA)		
SSN 24/7 Contact Point	Article 22a - SSN NCA 24/7 contact point		
LRIT National Competent Authority	Article 6b - LRIT NCA		
Place of refuge assessment	Article 20 (1) and Article 20a 2(b) - Authority responsible for assessing the situation regarding the accommodation of ships in need of assistance	Yes	
Place of refuge decision	Article 20 (1) and Article 20a 2(b) - Authority responsible for making decisions on the accommodation of ships in need of assistance	Yes	
Place of refuge alert	Article 20a 2(a) - Authority responsible for receiving and handling alerts as regards the accommodation of ships in need of assistance	Yes	
Maritime Assistance Services	Authority reported to IMO as M.A.S.	Yes	
Reception of report for missing notification	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1a ships which [...] have failed to comply with the notification and reporting requirements imposed by this Directive	Yes	
Reception of report for VTS infringement	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1a Ships which [...] have failed to comply with the applicable rules in ships' routing systems and VTS placed under the responsibility of a Member State	Yes	
Reception of report for pollution	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1b ships in respect of which there is proof or presumptive evidence of deliberate discharges of oil or other infringements of the MARPOL Convention in waters under the jurisdiction of a Member State	Yes	
Incident Report Banned Ship	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1c ships which have been refused access to ports of the Member States or which have been the subject of a report or notification by a Member State in accordance with Annex I-1 to Council Directive 95/21/EC of 19 June 1995 on port State control of shipping	Yes	

Duty Name	Duty Description	Associated to an Area	Associated to a list of LOCODEs
Incident Report Lack of Insurance	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1d ships which have failed to notify, or do not have, insurance certificates or financial guarantees pursuant to any Community legislation and international rules	Yes	
Reception of report from pilot	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 16.1e ships which have been reported by pilots or port authorities as having apparent anomalies which may prejudice their safe navigation or create a risk for the environment	Yes	
Reception of report for accident	Article 16, 17 and 21 – Recipient of information: Dir. 2002/59/EC - Article 17.1a any incident or accident affecting the safety of the ship, such as collision, running aground, damage, malfunction or breakdown, flooding or shifting of cargo, any defects in the hull or structural failure	Yes	
Reception of report serious situation affecting safety	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 17.1b any incident or accident which compromises shipping safety, such as failures likely to affect the ship's manoeuvrability or seaworthiness, or any defects affecting the propulsion system or steering gear, the electrical generating system, navigation equipment or communications equipment;	Yes	
Reception of report for discharge	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 17.1c any situation liable to lead to pollution of the waters or shore of a Member State, such as the discharge or threat of discharge of polluting products into the sea	Yes	
Reception of report for pollution	Article 16, 17 and 21 - Recipient of information: Dir. 2002/59/EC - Article 17.1d any slick of polluting materials and containers or packages seen drifting at sea	Yes	
Distribution of report for missing notification	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1a ships which [...] have failed to comply with the notification and reporting requirements imposed by this Directive	Yes	
Distribution of report for VTS infringement	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1a Ships which [...] have failed to comply with the applicable rules in ships' routing systems and VTS placed under the responsibility of a Member State	Yes	

Duty Name	Duty Description	Associated to an Area	Associated to a list of LOCODEs
Distribution of report for pollution	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1b ships in respect of which there is proof or presumptive evidence of deliberate discharges of oil or other infringements of the MARPOL Convention in waters under the jurisdiction of a Member State	Yes	
Distribution of report for banned ship	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1c ships which have been refused access to ports of the Member States or which have been the subject of a report or notification by a Member State in accordance with Annex I-1 to Council Directive 95/21/EC of 19 June 1995 on port State control of shipping	Yes	
Distribution of report for lack of insurance	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1d ships which have failed to notify, or do not have, insurance certificates or financial guarantees pursuant to any Community legislation and international rules	Yes	
Distribution of report from pilot	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 16.1e ships which have been reported by pilots or port authorities as having apparent anomalies which may prejudice their safe navigation or create a risk for the environment	Yes	
Distribution of report for serious accident	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 17.1a any incident or accident affecting the safety of the ship, such as collision, running aground, damage, malfunction or breakdown, flooding or shifting of cargo, any defects in the hull or structural failure	Yes	
Distribution of report for serious situation affecting safety	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 17.1b any incident or accident which compromises shipping safety, such as failures likely to affect the ship's manoeuvrability or seaworthiness, or any defects affecting the propulsion system or steering gear, the electrical generating system, navigation equipment or communications equipment;	Yes	
Distribution of report for discharge	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 17.1c any situation liable to lead to pollution of the waters or shore of a Member State, such as the discharge or threat of discharge of polluting products into the sea	Yes	

Duty Name	Duty Description	Associated to an Area	Associated to a list of LOCODEs
Distribution of report for pollution	Article 16, 17 and 21 - Distributor of information: Dir. 2002/59/EC - Article 17.1d any slick of polluting materials and containers or packages seen drifting at sea	Yes	
Mandatory Reporting System	Article 5 - Mandatory Reporting System (MRS)	Yes	
Vessel Traffic Services	Articles 8 and 9 – Vessel Traffic Services (VTS)	Yes	
MRCC or MRSC	Article 3 (n) - Maritime Rescue Coordination Centre(s) - MRCC(s)	Yes	
Pollution Response Centre	Article 3 (n) - Pollution Response Centre(s)		Yes
Reception of 72Hrs Pre-Arrival notification	Article 9 of Directive 2009/16/EC - Notification of arrival of ships		Yes
Provision of actual time of arrival in port	Article 24 (2) of Directive 2009/16/EC - Inspection database		Yes
Provision of actual time of departure from port	Article 24 (2) of Directive 2009/16/EC - Inspection database		Yes
Reception of port pre-arrival notification	Article 4 –Authority (ies) receiving notifications prior to entry into ports		Yes
Reception of dangerous and polluting goods notification	Article 13 - Authority (ies) receiving dangerous and polluting goods notifications		Yes
Reception of waste and residues notification	Article 6 of Directive 2000/59/EC		Yes
Reception of security information notification	Article 6 of Regulation (EC) No 725/2004		Yes
Issue of exemption for waste and residues notification	Issuing of exemption related to the submission by ships of Notification of waste and residues		Yes
Issue of exemption for security information notification	Issuing of exemption related to the submission by ships of Notification of security information		Yes
Issue of exemption on dangerous and polluting goods notification	Issuing of exemptions on the receipt of dangerous and polluting goods notifications		Yes

Table 4 COD – Initial List of Functions (indicative))

Function Code	Function Name	Role Description
CLEARANCE	Clearance authority	Competent authority for vessel clearance.
IT_CONTRACTOR	EMSA IT contractor	An IT contractor in contract with EMSA
SECURITY_LOCAL	Local security authority	Competent authority with respect to security in ports.
LRIT	LRIT authority	Authority responsible for LRIT
SECURITY_NATIONAL	National security authority	Competent authority for security.
POLLUTION_RESPONSE	Pollution response authority	Competent authority with respect to pollution
PSC	Port State inspection authority	Competent authority for the inspection of ships visiting ports.
SSN	SafeSeaNet authority	Authority Responsible for SafeSeaNet
SAFETY	Safety authority	Competent authority for safety at sea
SAR	SAR authority	Competent authority for search and rescue (SAR)
SHIP_INSPECTION	Ship inspection authority	Competent authority for ship inspections and the implementation of IMO and national rules on flag State ships.
VTMS	VTMS authority	Competent authority for the definitions of vessel traffic management system (VTMS) areas and for the regulations concerning these areas. Also responsible for the enforcement of laws and regulations for transport and maritime traffic
WASTE	Waste authority	Competent authority for compliance with legislation on waste