

Meeting: 18th IMS Group User Consultation Meeting (UCM#18)

Place and date: Lisbon, 25 May 2022

Agenda item: 3 – Update on SEG & IMS Mobile App

Document number: IMS 18.3

Submitted by EMSA

Summary	This paper provides the state-of-play of the: <ul style="list-style-type: none">• SSN Ecosystem Graphical User Interface (SEG) and• IMS Mobile App
Action to be taken	As per Section 4
Related documents	SSN/LRIT 11.4.2 – CSD version 2 – progress report, presented in 11th SSN / LRIT Group Meeting – 24 May 2022

1. Background

EMSA develops and maintains a single GUI serving the following maritime applications: SafeSeaNet (SSN), Integrated Maritime Services (IMS), CleanSeaNet (CSN) and EU LRIT Cooperative Data Centre (EU LRIT CDC). Named SEG (SafeSeaNet Ecosystem GUI), this common user interface serves diverse maritime functions and cover the needs of different user domains.

This document aims at providing the SEG current state-of-play and next phases and to update the group on the IMS Mobile App.

2. SEG

SEG releases

SEG version 1.1 was deployed in production the 7th of April 2017. It has been made available to all IMS for Member State users since July 2017. The figure 1 below identifies the major releases since 2017.

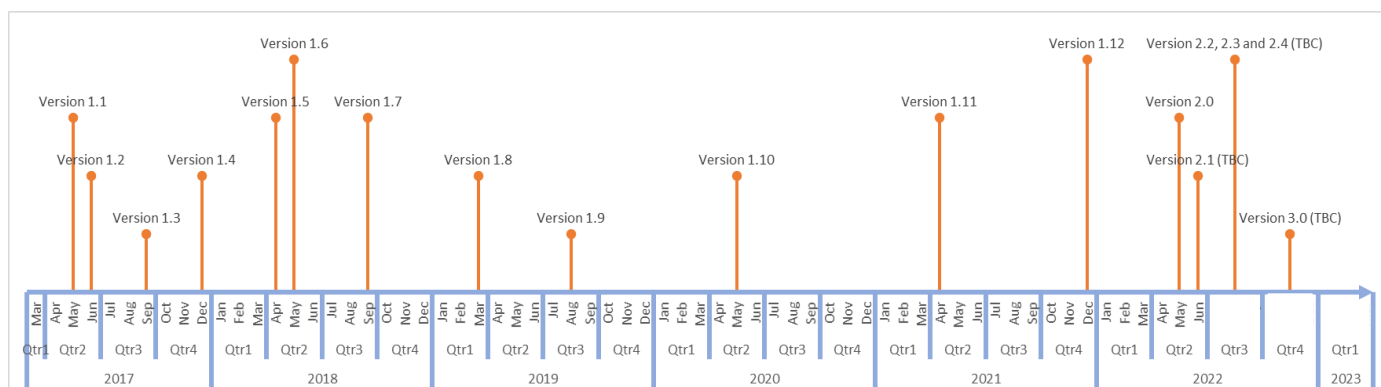


Figure 1: Major SEG releases

The current SEG version (1.12) introduced the following major changes¹:

- New EO Value Added Products (VAP):
 - Feature Detection Service: Detection of features on sea or on shore (e.g. containers; fish farms);
 - Change Detection Service: Comparison with older EO Services and identification of changes;
 - Wake Detection Service: Detection of wakes and potentially associated vessels (not correlated).
- Sea Traffic Management (STM) project voyage plan information:
 - Availability of STM voyage plan information to the participants of the “facilitation of ship to shore reporting” pilot project.
 - Possibility to retrieve voyage plans and display them in SEG (access rights applies).

Around 12 defects were also corrected with this release.

The major planned releases and envisaged changes to be included are the following:

- 2nd quarter 2022
 - Version 2.0
 - Real Time Maritime Picture Service (RTMPS) for displaying the last positions – RTMPS is expected to improve the overall performance of the system and will allow to remove the cluster functionality (technology using OGC web services such as Web Map and Web Feature Services). It also permits the removal of the cluster at low scale map view
 - Maritime picture based on different combinations of pre-defined position sources
 - Highlighting and labelling of Favourite Vessels

¹ more details are available in SEG release notes sent on 14 December 2021

- Selection of features to which the “Filter out” will be applied
 - Back' and 'Forward' navigation
 - Background layers
 - Nautical charts: Performance and display quality improvements
 - Bing: available again.
- Version 2.1
 - Favourite's improvements and new functionalities
 - Changes in internal s2s interface with EODC
- 3rd quarter 2022
 - Version 2.2
 - General interface improvement, including measuring tools functionalities
 - Upgrade in the configuration of client preferences
 - Version 2.3
 - Redesign of Vessel Command and Info (C&I) panel
 - Upgrade of EO C&I panel
 - Improvement of the Oil Spill feedback and Oil Spill report functionalities
 - Multiple C&I panels
 - Version 2.4
 - General interface improvement of Help functionality
 - CleanSetNet service improvements
 - Display of comparative, vector and detailed Traffic Density Maps (TDMs)
- 4th quarter 2022
 - Version 3.0
 - Technology upgrade of SEG core components
 - Advanced Vessel Search improvements
 - TTT panel available as a second screen support

Future developments

Central Ship Database v2.0 is intended to serve as a reference for MS authorities and EU agencies, for supporting them in the execution of their tasks (e.g. PSC inspections, vessel traffic monitoring, fisheries control, border control, law enforcement, customs).

An operational version of the system (holding information on more than 120,000 active ships) was deployed in January 2022 and integrated with the following data sources:

- SSN (ship data from SSN notifications such as PortPlus, Incident Reports, Ship MRS and exemptions),
- LRIT CDC (ship data from the LRIT ship database),
- THETIS (ship data from PSC inspections),
- Fishing vessels record (information on EU fishing vessels), and
- The commercial data provider IHS Markit (information on commercial ships of 100 GT and above).

In 2022 it is planned to synchronize OVR (Operational Vessel Registry) and CSD v2.0. This will improve the quality of ship identifiers information displayed in the SEG Command and Info panel.

Further information on CSD v.2.0 development is available for download under “SSN / LRIT Group Meeting 11” – <http://emsa.europa.eu/ssn-main/documents/workshop-presentations-a-reports.html> (document SSN/LRIT 11.4.2 – CSD version 2 – progress report, presented in 11th SSN / LRIT Group Meeting – 24 May 2022).

Integrated Vessel Track Service (IVTS) will be a back-end component for delivering vessel tracks. It will increase SEG performance and significantly improve the user experience when retrieving and displaying historical vessel tracks. It is also foreseen to overcome some limitations on the existing vessel track service.

Training

In the course of 2021 – still due to pandemic situation, the training activities for the IMS for Member States and EU Bodies continued to be conducted solely online:

- There were 17 trainings and webinars organized for the IMS for MS authorities and EU Bodies (EFCA, EUNAVFOR, EUROPOL).
- They covered various topics, ranging from basic IMS/SEG functionalities to specialized tools (Enhanced SARSURPIC, ABMs).
- Altogether, over 148 persons participated in these training activities.

The above figures also include the dedicated ABM sessions, as reported in the document IMS 18.2.

Additional training sessions on the use of IMS/SEG/ABMs/ Mobile App will be scheduled and published on EMSA web site. Please consult EMSA web page: <https://extranet.emsa.europa.eu/e-register/events> .

3. IMS Mobile App

The IMS App is a ‘light’ (simplified) version of the SafeSeaNet Ecosystem Graphical User Interface (SEG) for mobile devices. It serves the IMS community by providing a set of information and functionalities customized for the mobile phones and tablets, including:

- Vessel position & detail information
- Advanced vessel search
- Area centric query
- SSN enrichment information
- Potential Oil spills detected by CleanSeaNet
- Background map using Electronic Nautical Charts (C-Map)

Only registered IMS users from Member States authorities and EU agencies have access to the IMS App, using the same credentials as for other IMS interfaces. IMS Member State PoC and National Administrators manage access to the app via a dedicated profile (Access IMS Mobile App) in the Identity Management – IdM.

The IMS Mobile App currently available in the App Store (for iOS) and Google Store (for Android) is version 3.0.0. It incorporates some of the functionalities and developments identified by Member States during the dedicated UCM#11:

- Display of new data sets- Ports, AIS reported voyage data;
- Availability of the Port+ enrichment data at the level of ports;
- New offline capabilities - loading photos for offline usage;
- Modification of the advanced search functionality;
- Modification to the Vessel Track Query with Aproximate Distance Calculator (for SECA area) option;
- Special symbols for not-under-command and aground vessels;
- 'Place mark' and Measuring tool.

The Version 3.1 deployment is planned for the second half of 2022 and should include:

- Changes in the clustering view;
- New filtering option;
- Specific ABM functionalities including clustering view for the ABM alerts;
- Notifications for the new ABM alerts;

4. Action Required

IMS Member States are invited to take note of the above information and provide feedback on new functionality requirements and their priorities.