

Meeting: 17th IMS Group User Consultation Meeting (UCM#17)

Place and date: Lisbon, 21 October 2021

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

Document number: IMS 17.3

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	N/A

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.

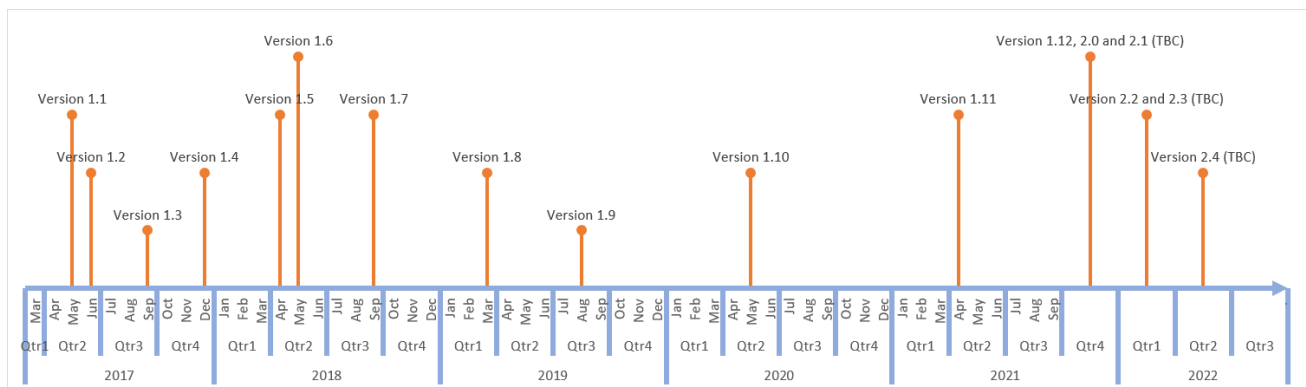


Figure 1: Major SEG releases

The current SEG version (1.11) introduced the following major changes¹:

Horizontal:

- TTT improvements (selection/interaction using the TTT, Speed profile, etc..)
- Pre-set modes (ability to define workspace settings per operation)
- Approximate distance calculation – for a selected ship travelled inside and outside of the SECA area.

CleanSeaNet:

- Display of new Earth Observation products and attributes; Feature Detection Service (FDS), Enriched Vessel Service (EVS), Enriched Feature Service (EFS), Wake Detection Service (WDS)

Bugs:

- Around 50 defects were also corrected with this release.

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

- 4th quarter 2021
 - Version 1.12
 - Reporting of Potential oil pollution sightings
 - Display of Voyage plans from Sea Traffic Management.
 - 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).

¹ more details are available in SEG release notes sent on 15 April 2021

- Version 2.1
 - Favourite's improvements and new functionalities
 - Changes in internal s2s interface with EODC
- 1st 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
- 2nd quarter 2022
 - Version 2.4
 - General interface improvement of Help functionality
 - CleanSetNet service improvements
 - Display of comparative, vector and detailed Traffic Density Maps (TDMs)

Future developments

The new version of Central Geographical Database (CGD) will be developed and later integrated in SEG (planned 2022). This integration will allow much more flexible management of areas in SEG and Member States direct access to national areas.

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 12 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 63 persons participated in these training activities.

The above figures also include the dedicated ABM sessions, as reported in the document IMS 17.2.

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 integrated services community by providing a set of information and functionalities, including:

- Vessel position & detail information
- Advanced vessel search
- Area centric query
- Incident reporting
- Oil spill monitoring and feedback
- Background map using Electronic Nautical Charts (C-Map)

Only registered IMS users from member state authorities and EU agencies have access to the IMS app. 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 2.7.7.

The next generation of the IMS Mobile App will also incorporate the functionalities and developments identified by Member States during the dedicated UCM#11 parallel session (see Annex A). The following two deployments are planned for 2021-2022 period:

- Version 3.0 (planned for 4th quarter 2021):
 - Display of new data sets
 - Modification of the Search functionality - vessel specific changes
 - Modification to the Vessel Track Query
 - Special symbols for not-under-command and aground vessels
 - Track Query - ADC option
 - Usage of the application metrics for the IMS App and the New ABM app - monitoring/ statistics
 - User specific 'Place mark' functionality
 - Measuring tool in the Mobile App and the new ABM app
 - Availability of Port data
 - Deprecation of UIWebView: use of WKWebView instead
 - Modification of the Search functionality with new attributes
- Version 3.1 (planned for 1st quarter 2022):
 - Changes in the clustering view
 - New offline capabilities - loading photos
 - New filtering option
 - New ABM functionalities - high level requirements
 - Notifications for the new ABM alerts

- ABM Alerts interaction
- Clustering view for the 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.

Annex A – IMS Mobile App 3.0 Developments

- **Port data**
 - Add location of the ports and port timetables (expected arrivals, ships in port, recent departures) similarly to the SEG (desktop GI) functionality.
- **Modify 'Search' functionality to allow:**
 - Search for ports;
 - Search for the last known position of the vessel (> 24hrs).
- **Modify – Vessel Track Query to:**
 - Increase available time period to 72 hours.
- **Modify the 'Advanced' search functionality to allow search:**
 - by 'Flag' attribute;
 - by IMO
 - by multiple attributes.
- **Add a 'Place mark' functionality to:**
 - Allow user to display specific place by entering LAT and LONG values;
 - Allow user to drop and save a 'place mark' in a specific geographical location.
- **Modify 'clustering'**
 - Remove 'clustering' function and limit the available scales/ zooming capabilities or consider adding 'Google' alike clustering.
- **Layers, filtering**
 - Add filtering by 'size' and 'tonnage' of the vessels.
 - Add filtering by 'Navigational Status'.
 - Add filtering of 'My vessels' on the global scale
- **Special symbols for vessels**
 - Add special symbol for vessels with 'Navigational Status' Not Under command (NUC).
- **Dead reckoning**
 - Add speed vector/ predicted positions for selected ships.
- **Push notifications**

- Add 'Push notifications' for the ABM alerts, at the same time allowing users to deactivate them.
- **Measuring tool**
 - Consider adding a simple 'measuring tool' in the App.
- **EO Derived Data**
 - Provide VDS products in the Mobile App.