



8th SSN LRIT Group Meeting

Interoperability Project

Agenda item 8.6.1

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Promotion of interoperability between industry and competent authorities in the European Maritime Single Window (EMSW) environment under the CISE Process

Action grant from DG MARE

Action 1.2.1.4 of European Maritime and Fisheries Fund's work programme for 2018 - Commission Implementing Decision C(2017)8146

Grant agreement signed September 2018

Duration: 3 years

Objectives

1. Enabling a more efficient **data exchange and sharing regarding port documentation** between the different authorities of Member States using SSN, including exchange of cargo information
2. Enhancing **connectivity between all relevant authorities and end-users** in the different Member States
3. Specific interoperability activities contributing to the development of an **EMSW environment**
4. Improving information exchange ship-to-shore using **VHF Data Exchange-satellite** (VDE-SAT) communications

On-going projects



- 1. Facilitation of ship-shore reporting**
- 2. Ship-to-shore information exchange using VDE-SAT**
- 3. Enhanced ship database services**
- 4. Traffic density mapping**

Facilitation of ship-shore reporting



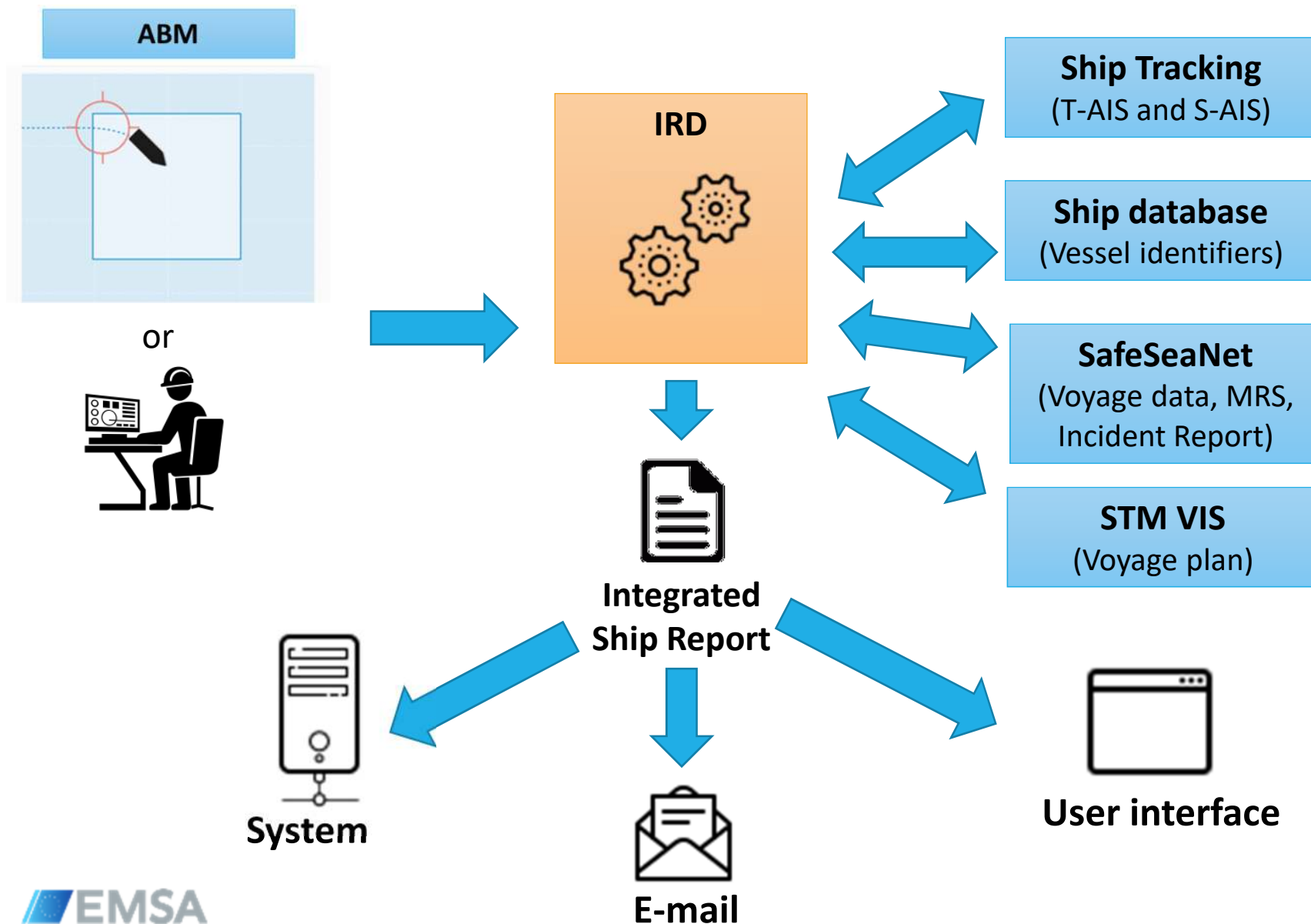
Test technical solutions to re-use information already available in the SSN Ecosystem to improve coastal stations' awareness of their areas of control and minimise reporting burden for ships in MRS/VTs areas

14 participating countries: BE, DE, DK, EE, FI, FR, HR, IT, LV, NL, NO, PL, RO, SE

Integrated Reports Distribution (IRD) platform developed for the purpose of the Project. Interconnects with EMSA Maritime Applications and with MS systems

- ✓ First IRD prototype made available in July 2019
- ✓ Second meeting with MS held on 25 Sept 2019
- ✓ First operational IRD version 1.0 deployed in March 2020 and available to MS
- ✓ Third meeting with MS held on 23 June 2020 to collect feedback and present system interface documentation
- IRD version 1.1 expected for November
- Fourth meeting with MS foreseen for end-November / begin-December to prepare operational tests
- Operational tests foreseen for Q1 2021

Facilitation of ship-shore reporting



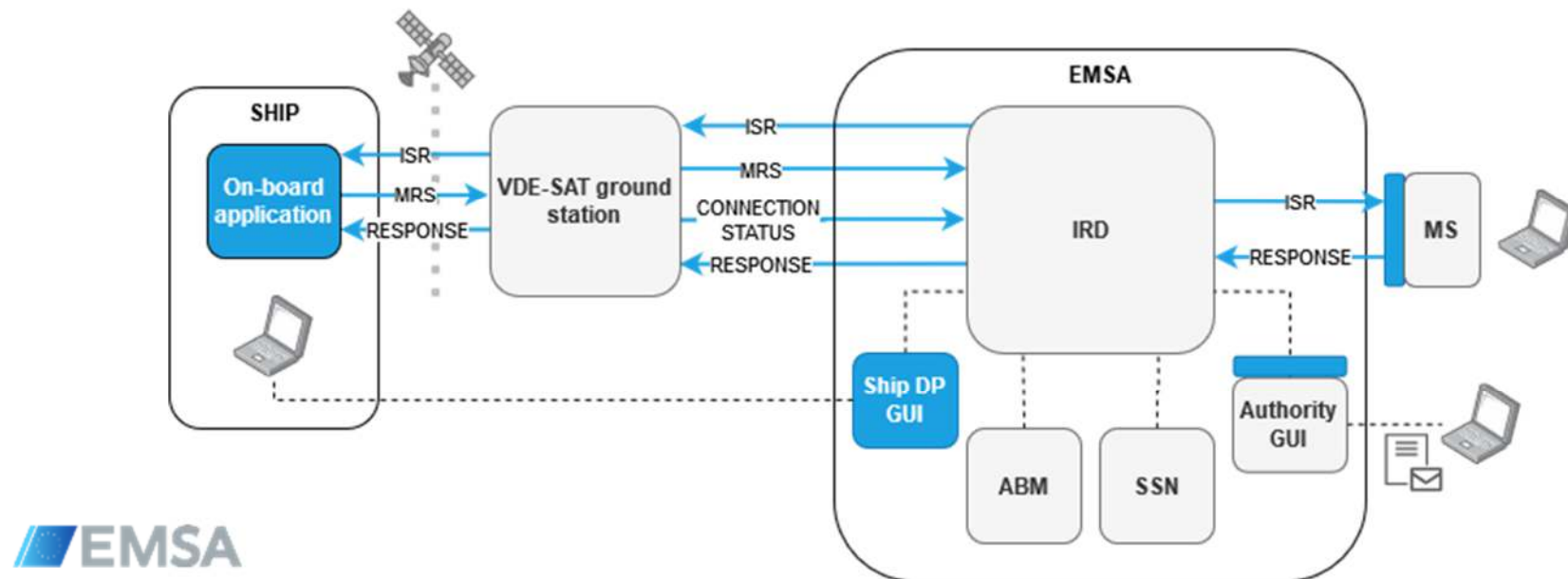
Ship-to-shore information exchange using VDE-SAT

Set up a VDE-Capability platform to process and exchange messages. Will receive MRS/VTs reports from ships through VDE-SAT communications or Internet and distribute them to the relevant authorities of the Member States.

Developed over the IRD system. Will reuse information from IRD's Integrated Ship Reports.

Pilot project in collaboration with ESA and Norway

- ✓ Overall solution designed in collaboration with Space Norway and ESA
- ✓ Development kicked-off on 8 October (IRD version 1.2)
- Technical solution expected to be available by April 2021



Enhanced ship database services



Further develop EMSA's central ship database (CSD) services and promote their use by the Member States

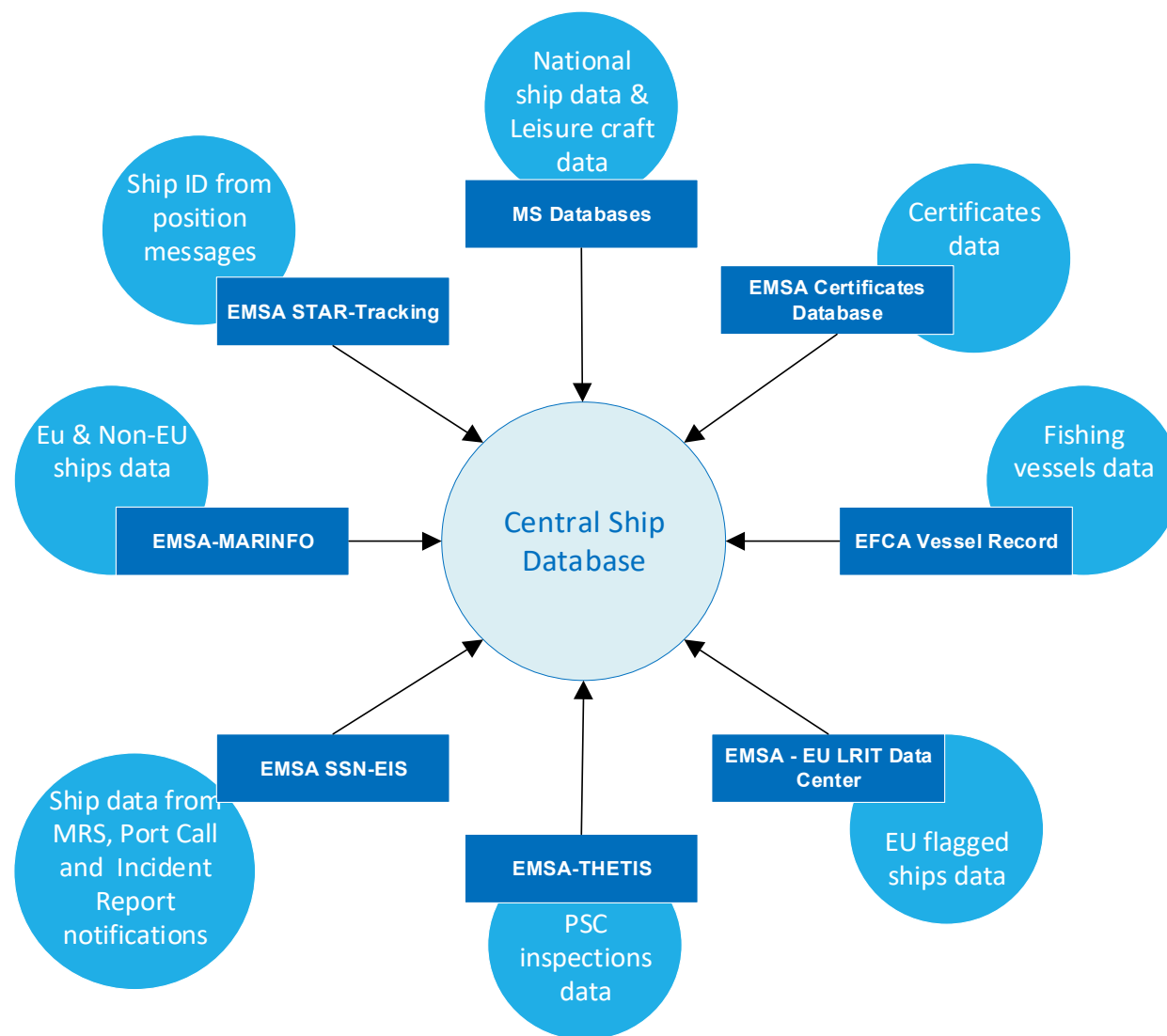
11 MS participating: DE, EE, FI, FR, HR, IT, LV, NL, NO, RO, SE

The CSD will collect ship information from the SSN Ecosystem (e.g. SSN notifications and ship inspections), EU databases (e.g. fishing vessels), MS national databases (e.g. national flag registers and leisure craft databases), Recognised Organisations and commercial data products.

Uses Master Database platform TIBCO EBX

- ✓ First meeting with MS held on 27 June 2019
- ✓ The procurement procedure took longer than expected and the contract was finally signed in September 2020
- ✓ The SSN system was adapted to be ready to feed the CSD with ship data
- Development to be kicked-off beginning of November
- 6 months of development foreseen, followed by integration with data sources

Enhanced ship database services



Traffic density mapping



Technical solution for calculating density of shipping. computes ship position data and calculates the density of traffic per geographical cells et per time periods (e.g. month, season, year) in the overall EU maritime areas

Results available in SEG and as downloadable files

Three types of maps will be computed: standard maps (with 10x10 km cells), detailed maps (1x1 km cells, in specific areas of interest) and vector maps (displaying individual ship tracks, in specific areas of interest)

- ✓ Definition of special areas of interested collected from MS until July 2020
- ✓ The development contract was kicked-off on 21 April 2020
- ✓ Will require upgrade of SEG



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