

IMDatE

an integrated technical platform

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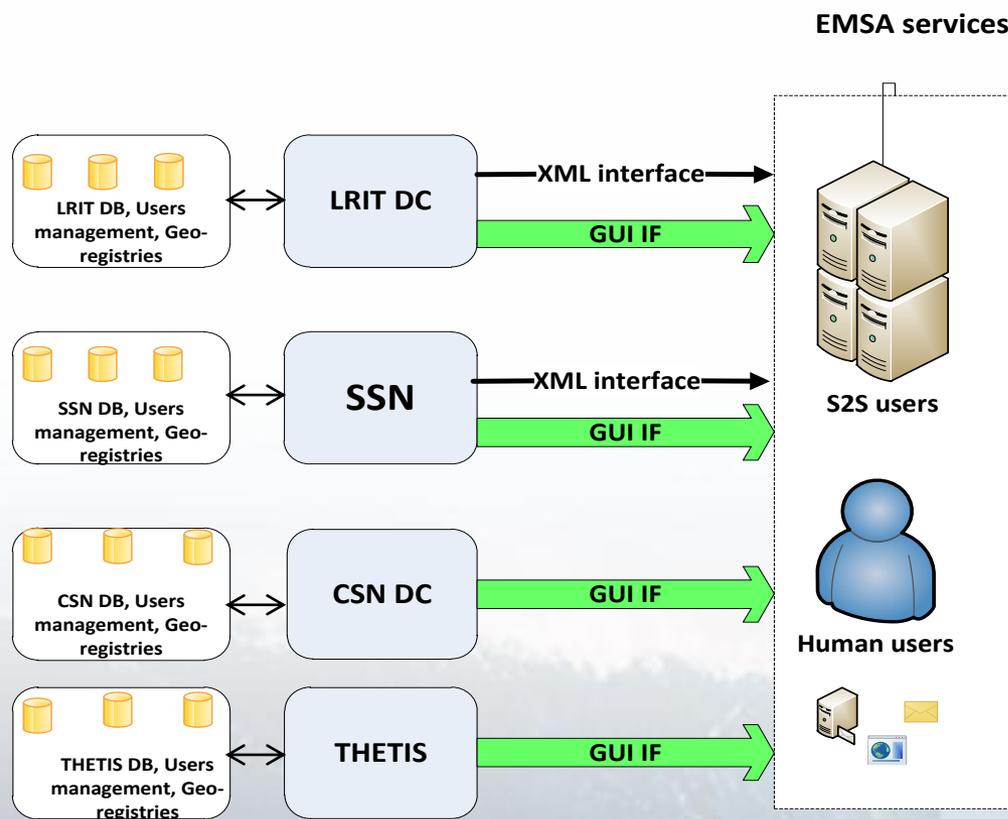
Satellite Based Monitoring System

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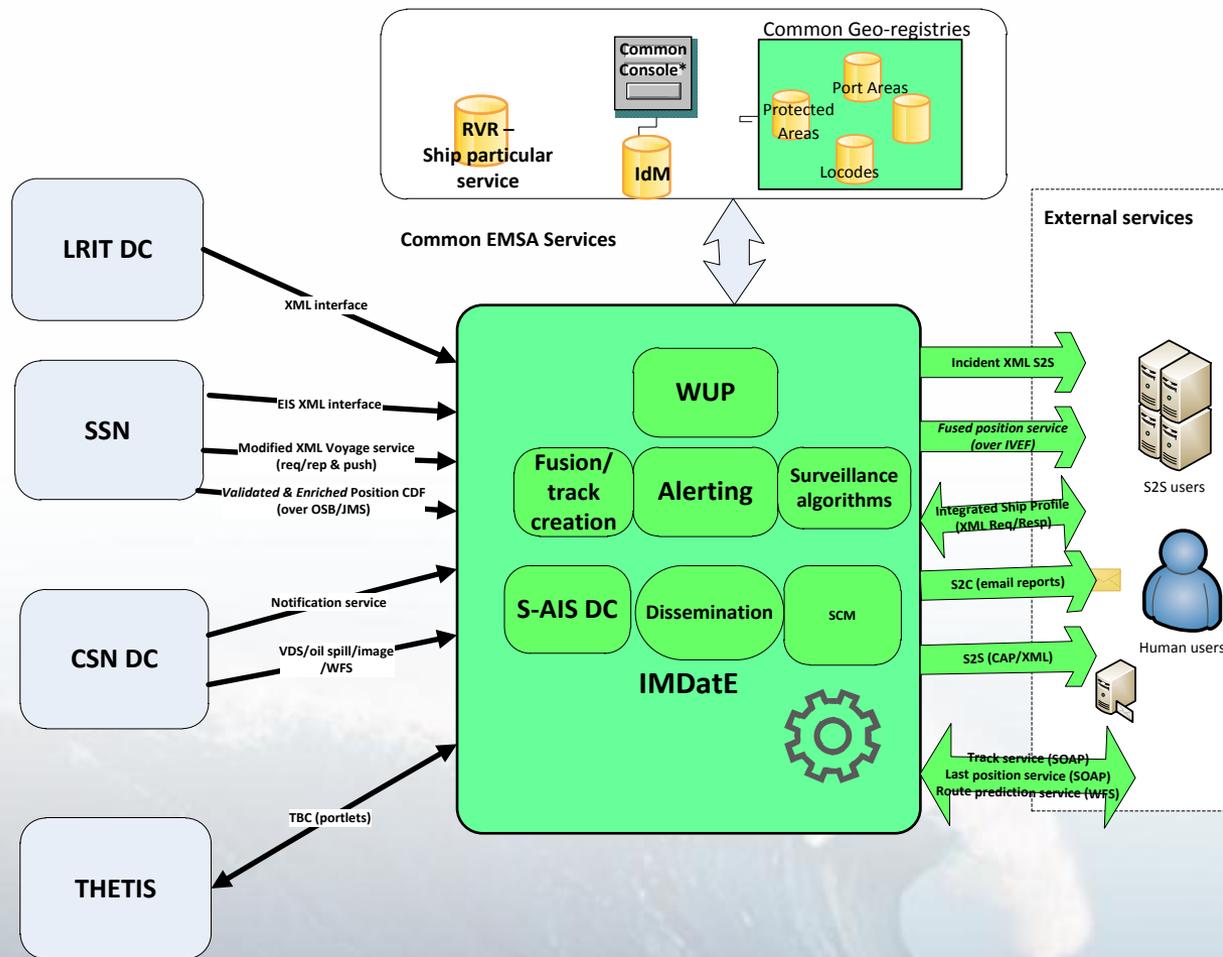
Content

- 1. IMDatE high level architecture**
- 2. IMDatE main technical modules**
- 3. Potential Value Added Services**

EMSA actual ICT operational environment



IMDatE architecture



IMDatE modules

- Existing systems – SSN, LRIT, CSN, THETIS
- Central User Management Console and Single Sign One tool
- Reference Ship Registry
- Common Geo-Registries
- Data Fusion Module
- Sat-AIS data processing module
- New Graphical User Interface
- New system-to-system interface

Existing systems – SSN, LRIT, CSN, THETIS

- main data providers into the integrated platform
- continue to deliver the same level of service to existing “individual” users

Central User Management & SSO

- standard way of defining a user so it can be recognised by every system;
- user log once into EMSA portfolio of services and have access to all services he is entitled according to his profile

Reference Ship Registry

- automatic cross-checking of ship information between existing data-bases
- improved quality of data by outlining inconsistencies

Common Geo-Registries

- same Locodes data-base
- same area definition

Data Fusion Module

- correlation and fusion of position data into an integrated ship track
- layer-based approach – one or more streams of data

Sat-AIS data processing module

- process SAT-AIS information from different providers
- distribute the data either as an individual stream or as part of the integrated track

Potential Value Added Services

- Ship related services:
 - Integrated ship profile
 - Ship track
 - Ship voyage
 - Hydro-meteorological information along the voyage
- Traffic monitoring services:
 - Permanent monitoring
 - Lookout monitoring
 - Area of Interest, Time of Interest, Vessels of Interest, Event of Interest
 - Identified and non-identified vessels

Potential Value Added Services

- Alerting and reporting services:
 - Create alerts
 - Create reports
 - Colored code visualization
 - 3D visualization (it is needed??)

**USERS SHOULD PROVIDE SERVICE REQUIREMENTS
FOR IMDatE OPERATIONAL SET-UP**

THANK YOU !

European Maritime Safety Agency

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