

**IMDatE**

**an integrated technical  
platform**

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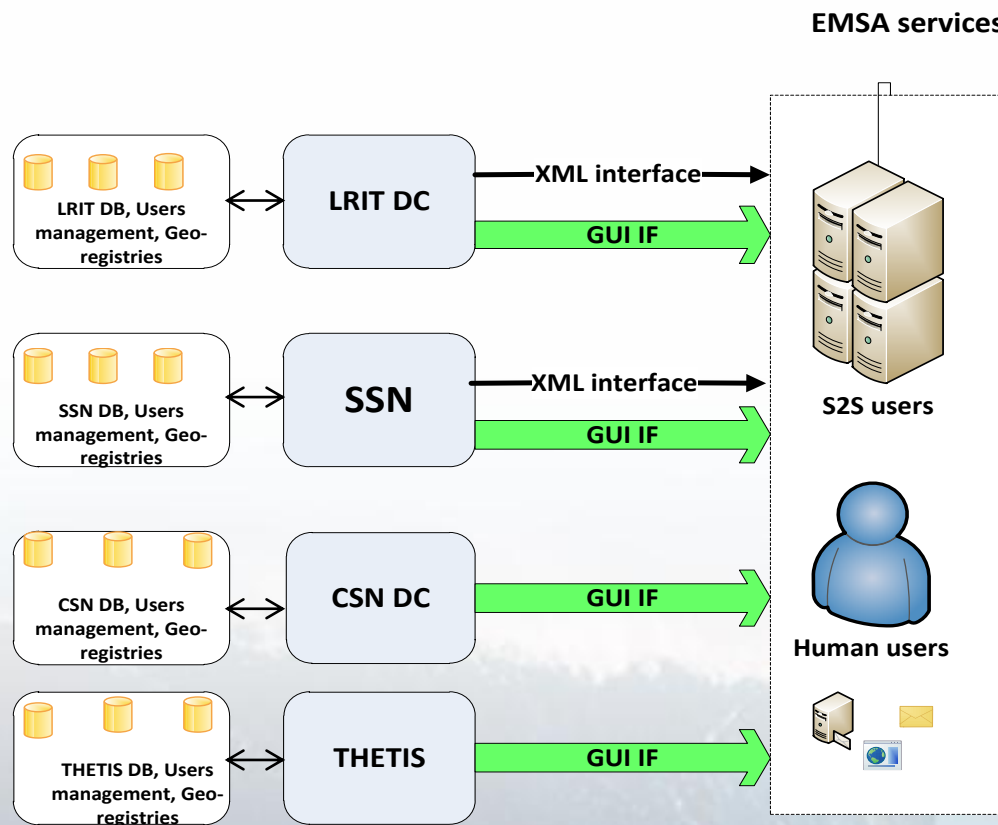
**Satellite Based Monitoring System**

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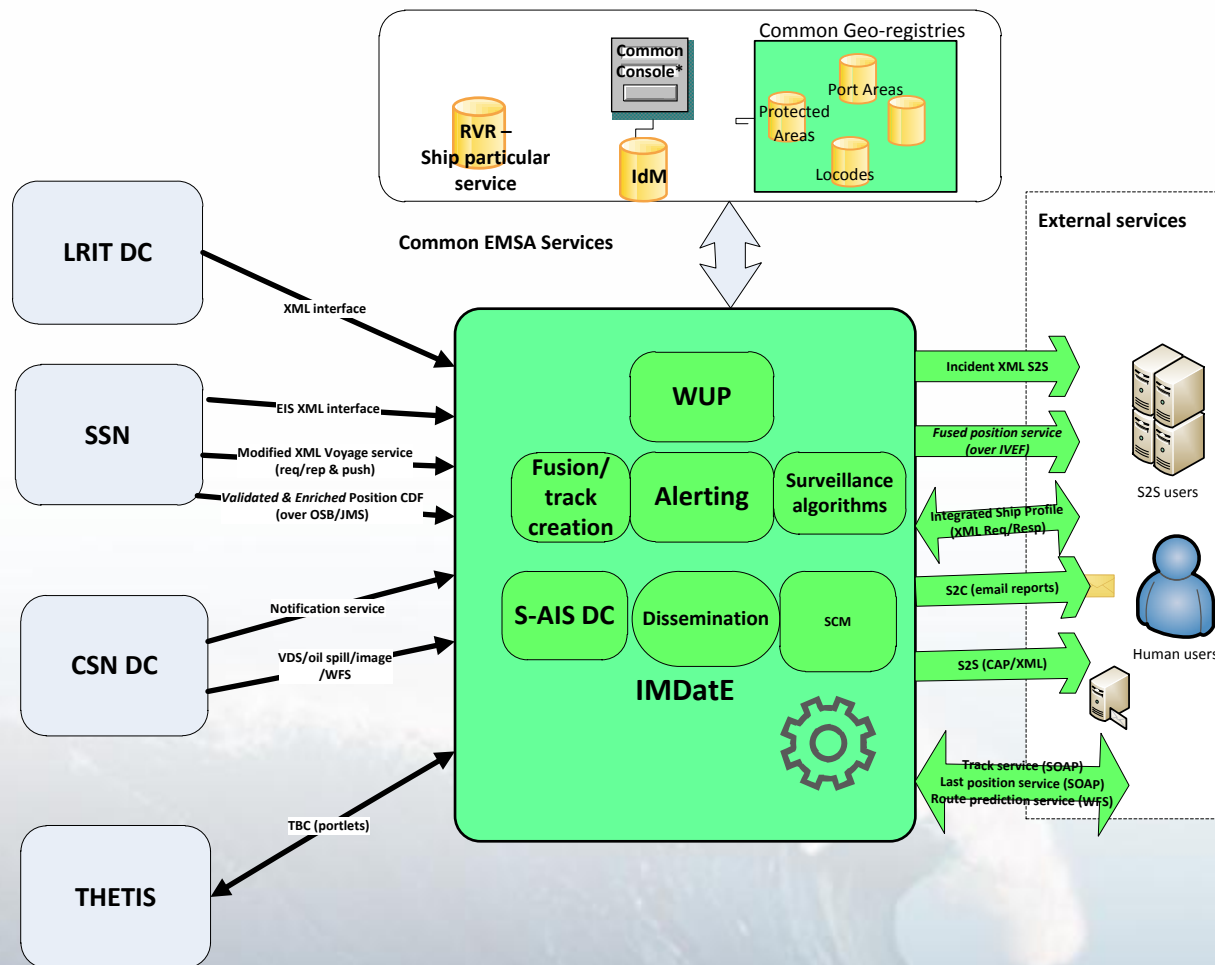
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- 2. IMDatE main technical modules**
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# EMSA actual ICT operational environment



# 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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