

INTEGRATION OF AIS – LRIT DATA

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LRIT NCAs meeting

19-20 October 2009, EMSA, Lisbon

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Satellite Based Monitoring Services

Legal basis

The EU Council LRIT Resolutions stating:

- **LRIT and AIS information are complementary and, therefore, agrees to progress towards an integration of these two systems;**
- **the SSN system should be modified, at central and national level, in order to ensure the appropriate level of security of LRIT data transmission and to fulfil the IMO requirements and to properly implement the Data Distribution Plan agreed by Member States;**
- **the Council invites the Commission and the Member States to continue working to achieve the availability of integrated LRIT and AIS data through the SSN;**

Initial LRIT – AIS IF

LRIT-AIS Interface (IF) - aimed at fulfilling IMO requirements regarding internal routing of the LRIT data, meaning that only the mandatory reports of the EU flagged ships will be pushed into the SSN system for internal distribution between users.

Shortages:

- Allows for distribution of only mandatory LRIT data of the EU flagged ships;
- Do not provide data for non-EU ships;
- Do not provide LRIT data requesting capabilities;
- Is a duplication of functionalities available on the LRIT UWI;

Single User Web Interface (SUWI)

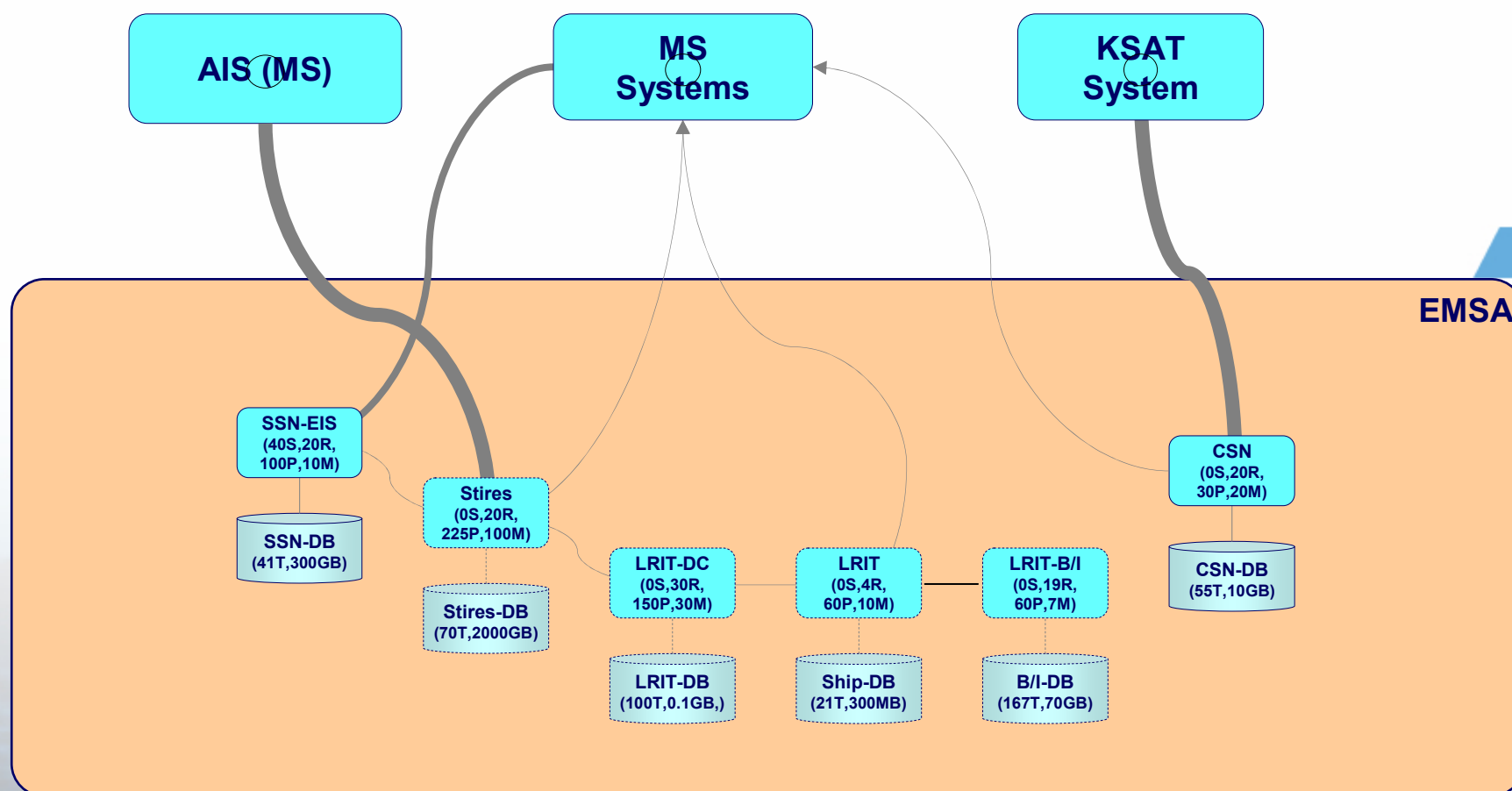
Full integration of AIS and LRIT data through a SUWI allowing distribution of AIS or LRIT or combined AIS/LRIT data in accordance with established user's profiles and associated access rights.

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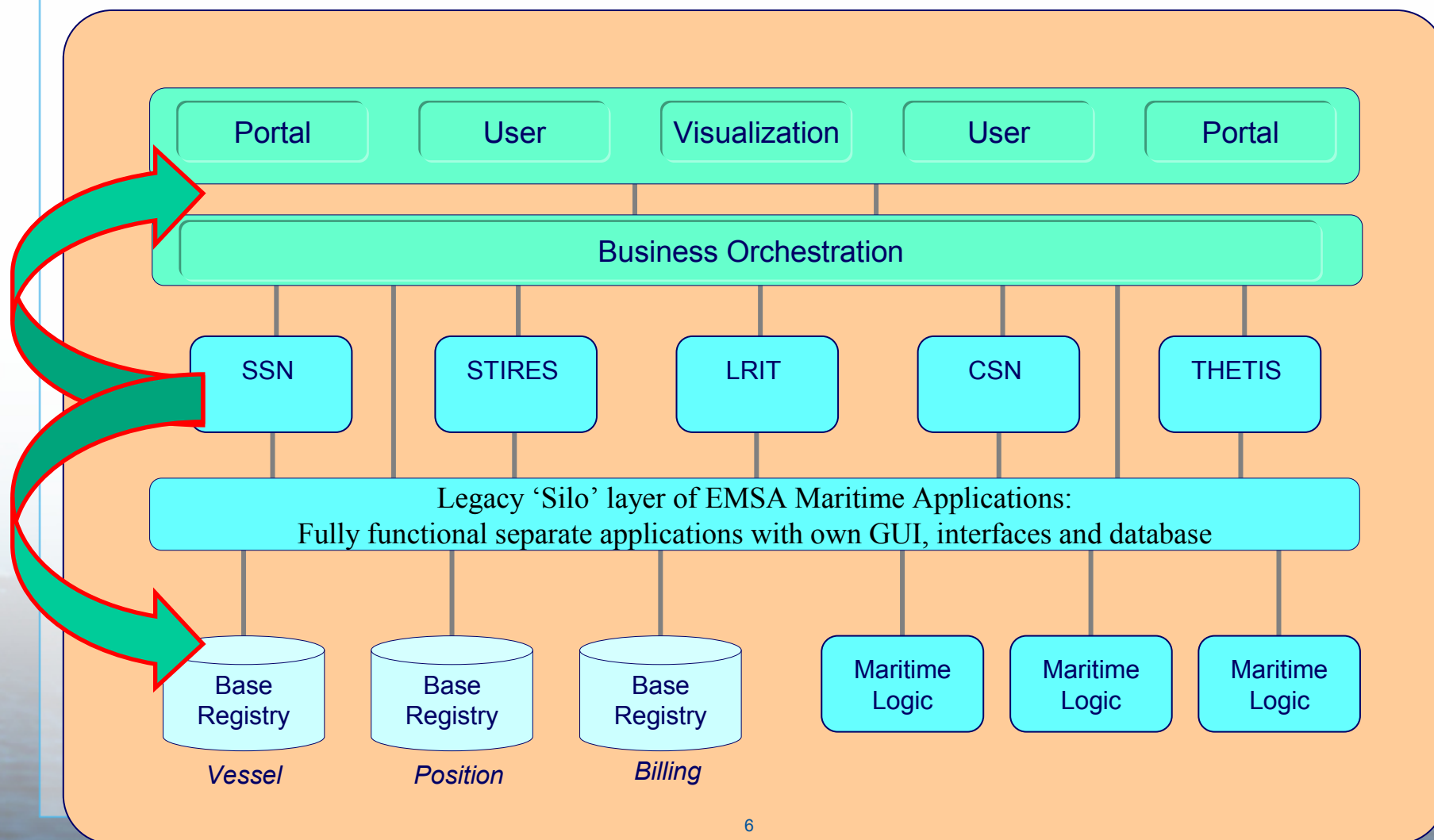
Advantages:

- **fully compliant with IMO LRIT requirements;**
- **unique User Management approach for SSN and LRIT;**
- **providing users with integrated traffic monitoring picture;**
- **Single Sign On;**

EMSA Current Application Architecture Overview

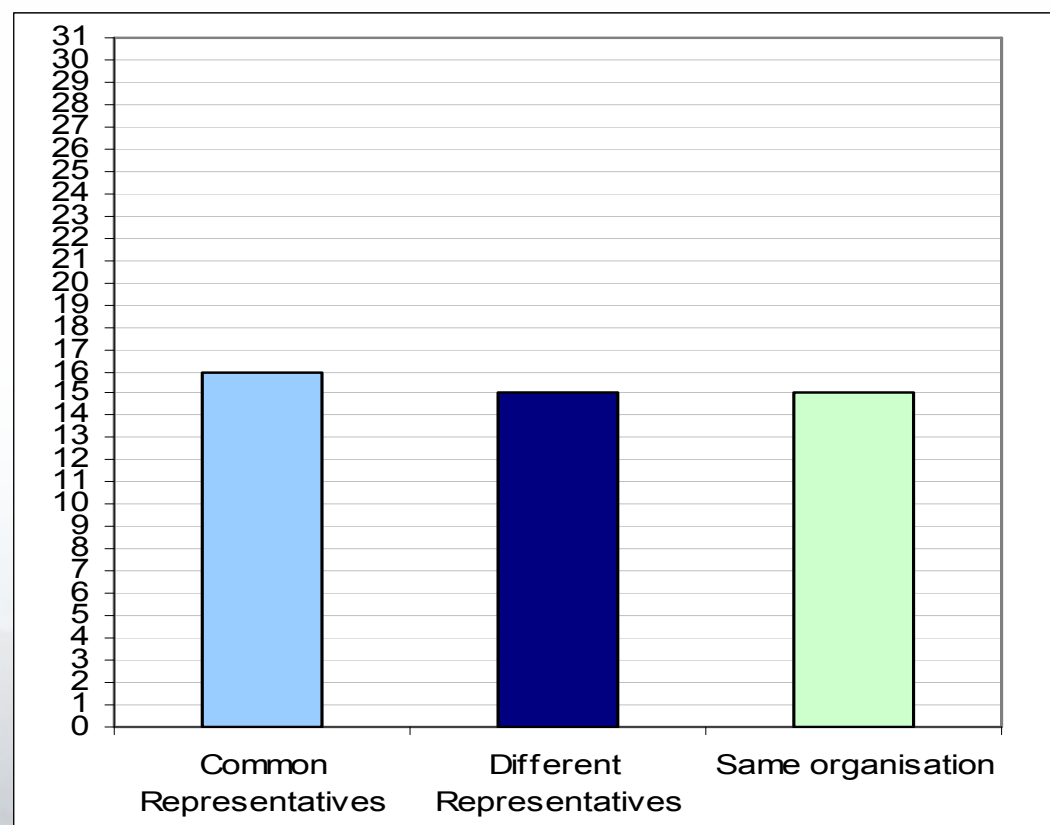


EMSA Integrated Architecture



USER MANAGEMENT

Present situation = NCA/SSN + NCA/LRIT + CSN Admin



Single User Web Interface = Single NCA

Unique NCA for EMSA applications:

- Coordinated user management at national level;
- Data access security control;
- Flexibility and efficiency in creating user profiles and allocating access rights;

1st step - SUWI = option in addition of existing situation;

2nd step – SUWI = single user portal for all applications;

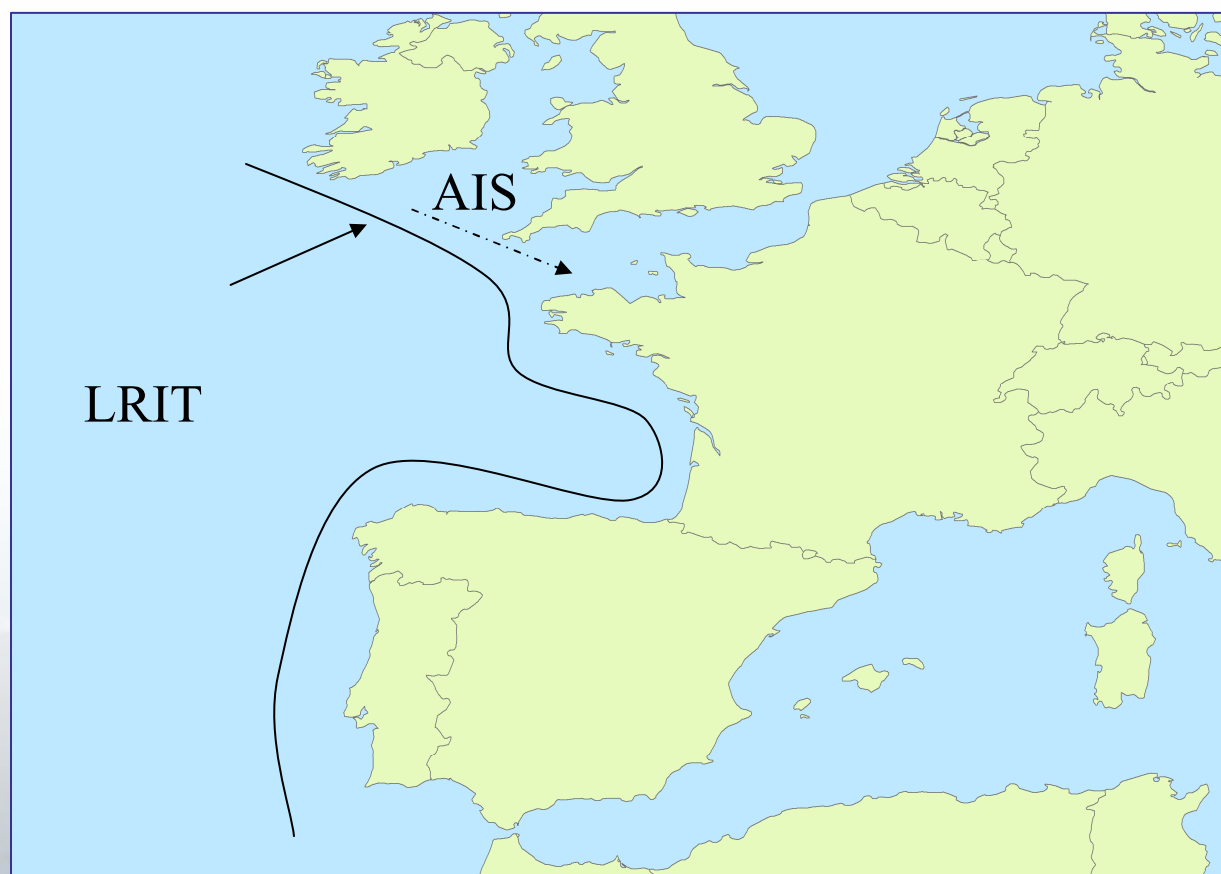
~~AIS into LRIT~~

- Ingestion of AIS data into LRIT system is not possible because the transmission of AIS data from ship to shore (open VHF broadcasting) is not compliant with the IMO LRIT technical and communication security requirements (MSC.1/Circ.1259 – Technical specifications);

SatAIS into LRIT

Possible YES – according to future development

AIS complementary to LRIT



Questions

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