

EU LRIT

Ship data-base

**EU LRIT Expert Group meeting
25-26 February 2008**

Marin Chintoan-Uta
LRIT Task Force

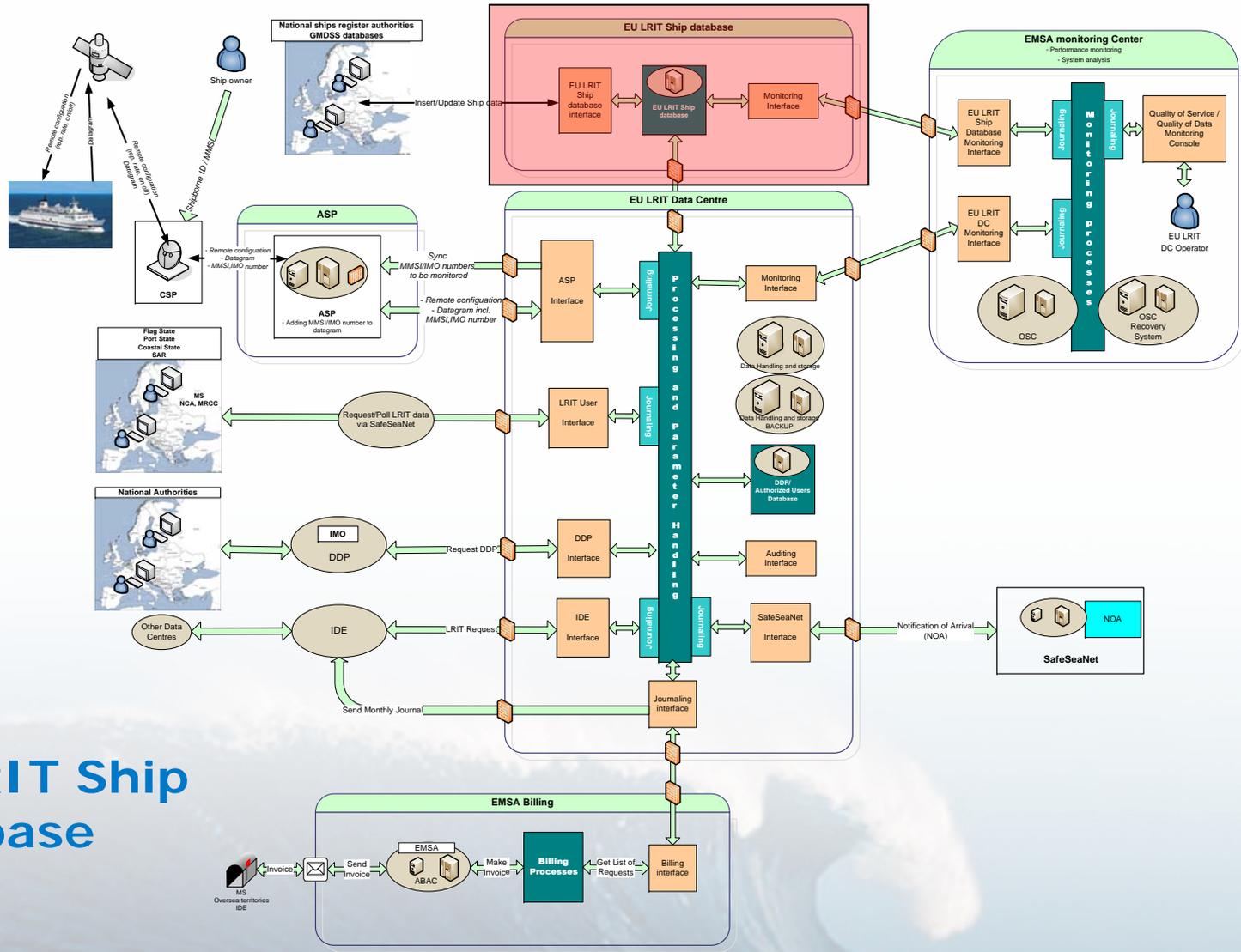
Contents

- Significance of EU LRIT ship DB
- DB information to be managed by MS - legal background
- EU LRIT ship DB basic requirements
- Development timeframe

and very important

- **MS contribution**

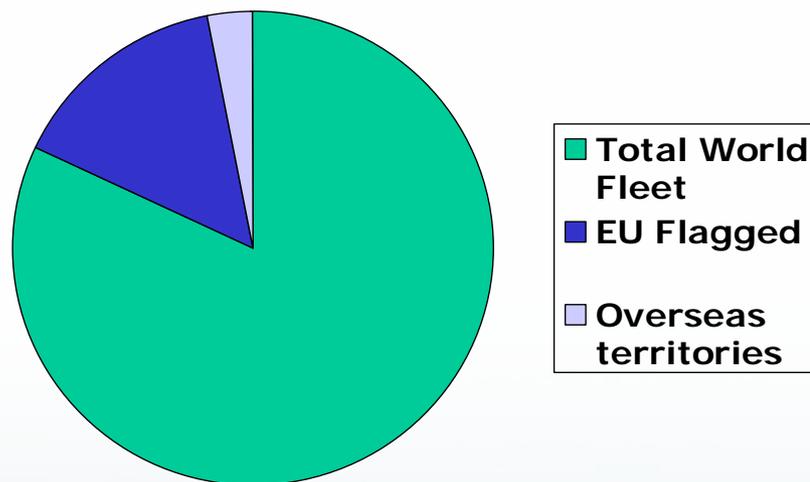




EU LRIT Ship Database

Significance of EU LRIT DB

- **EU flagged ships** =
Approximately 8,200* ^ vessels
- **Overseas territories** =
approximately 1,700 vessels
- **Total world fleet** =
Approximately 55,000 vessels

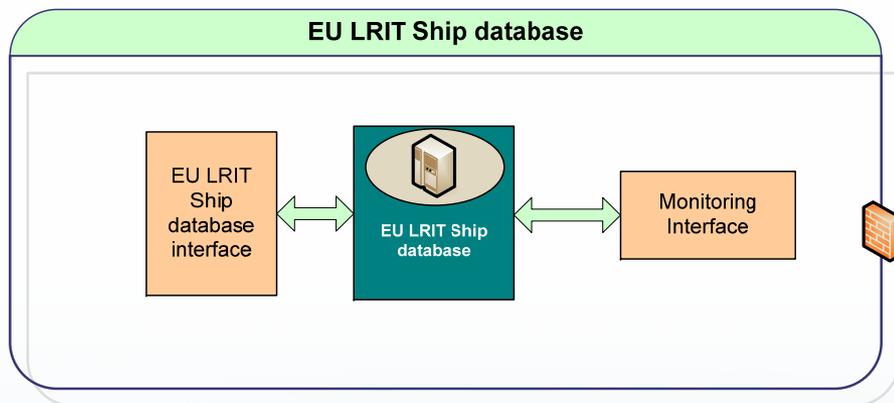


*only vessels engaged in international voyages

^ preliminary conservative estimations

EU DB to cover about
18 % of world's fleet

EU LRIT Ship Database Register



EU LRIT Ship database to be developed by EMSA within the framework of SafeSeaNet

- MS direct access to populate the database via SSN interface
- **ONLY** MS/Flag States define ships contained in the DB and obliged to report to EU LRIT DC
- Daily update required by Member States In accordance with IMO Res. A887 (21) concerning registration databases for GMDSS
- EMSA only provides ship DB information to ASP/CSP through the DC

EU LRIT DB Website structure

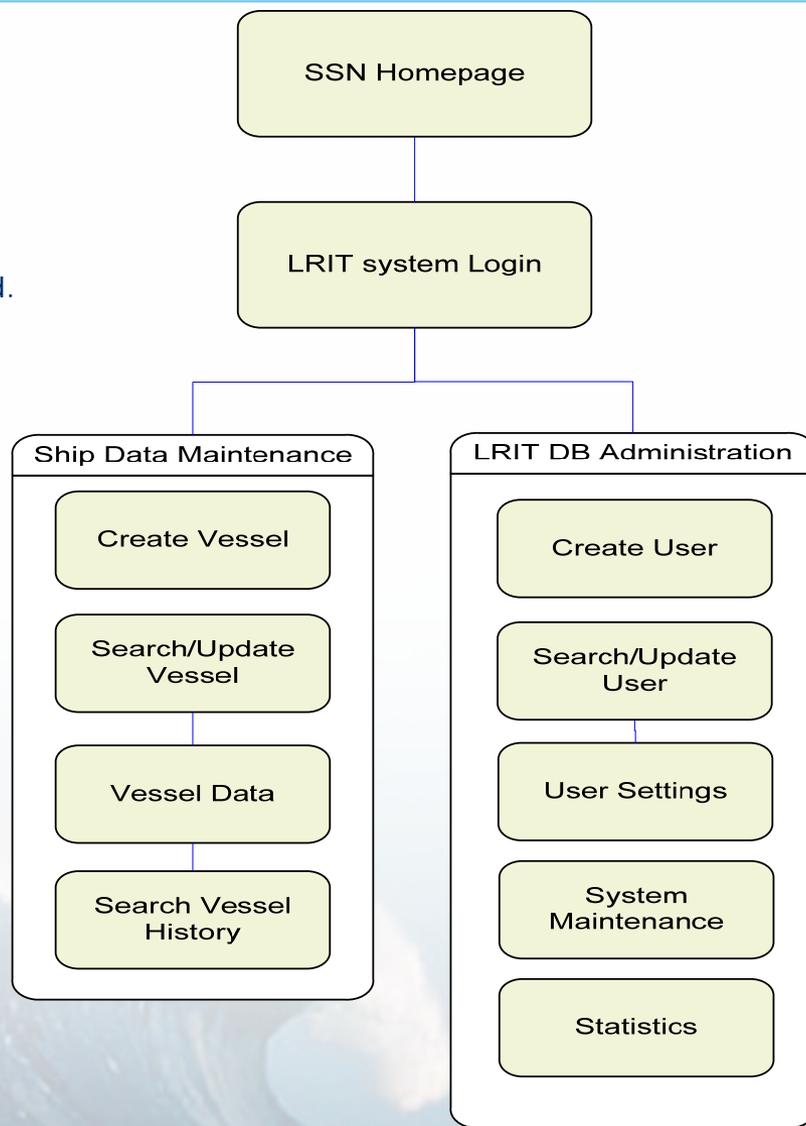
LRIT System Login – access through Username/Password.

Ship Data Maintenance - a set of web pages used **ONLY** by a MS to enter data regarding **ONLY** ships flying its flag.

- Create Ship** : a ship can be added to the database.
- Search/Update Ship**: consult and/or change ship data.
- Vessel data**: ship changes flag/out of service.
- History**: records of changes.

LRIT DB Administration - web pages accessible **ONLY** by MC operators

- User Management**: to manage the LRIT DB users.
- System Management**: to manage the LRIT DB system.
- Statistics**: allows for different statistics.



Simulation of DB access



Find
Information

Send
Notification

Download
Forms

Management
Console

EU LRIT
System

Simulation of DB access



Login

User ID:

Password:

Submit

Reset

Home

Ship Data Base Management console

- Ship Data Maintenance | Create vessel |
| Search / Update vessel |
 ◀ Vessel data ▶
 ◀ History ▶
- Data Base Administration | Create User |
| Search / Update User |
 ◀ User settings ▶
| System maintenance |
| Statistics |

LRIT DB legal background

IMO resolution MSC 210(81) - Performance standards and functional requirements for the LRIT system

> Administration provides ship data to EU LRIT DC for ships flying its flag and performs updates

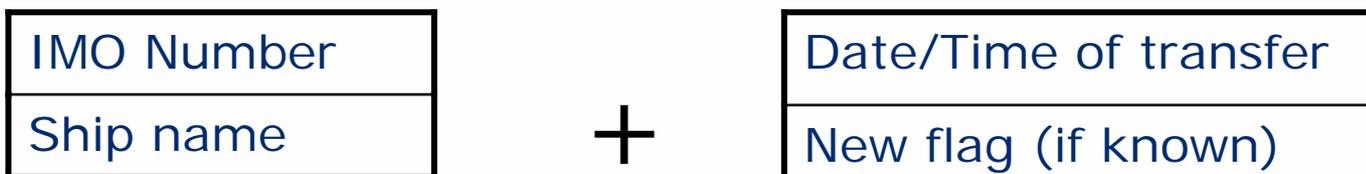
| |
|-------------|
| IMO Number |
| MMSI Number |
| Call sign |
| Ship name |

Initially populated by means of data files import

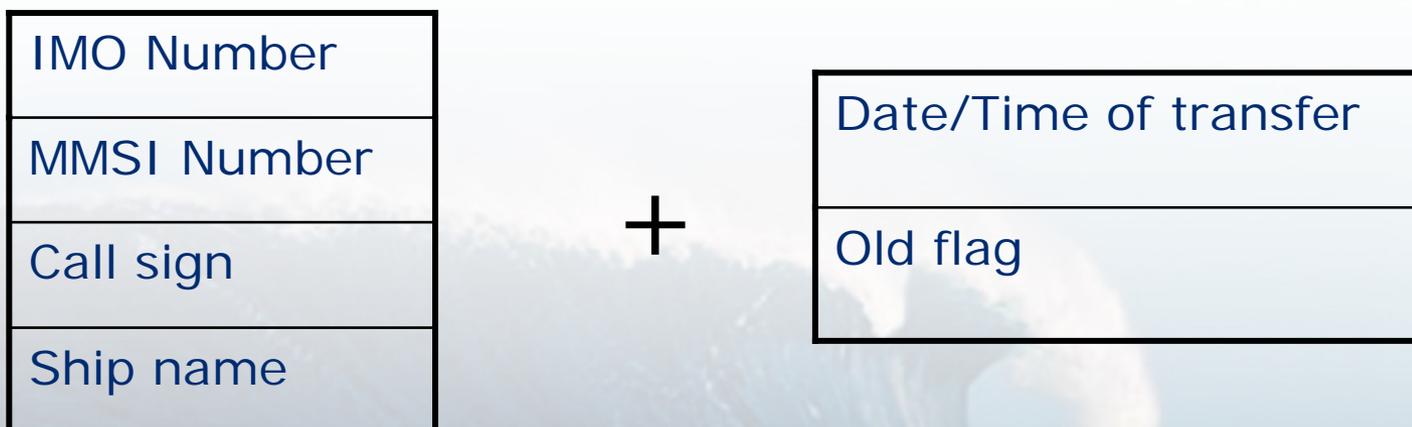
LRIT DB legal background

Change of Flag

OLD Administration provides information to EU LRIT DC



NEW Administration provides information to EU LRIT DC



LRIT DB legal background

Out of Service

Administration provides information to EU LRIT DB

| |
|------------|
| IMO Number |
| Ship name |

+

| |
|--|
| Date/Time of Taking Out of Service |
|--|

LRIT Ship Database Actors

Data Owner

| User | Access Right <i>only for own ships</i> |
|--|--|
| <ul style="list-style-type: none">• National Administration authorized to report to the EU LRIT DC (official point of contact) | <ul style="list-style-type: none">• Read• Add• Update• Export• Reporting |

LRIT Ship Database Actors

Data Users

| User | Access Right <i>for all ships</i> |
|--|--|
| <ul style="list-style-type: none">• EU LRIT Data Centre operator• Application Service Provider (ASP) operator | <ul style="list-style-type: none">• Read• Export• Reporting |
| <ul style="list-style-type: none">• EU LRIT Monitoring Centre operator (system administrator) | <ul style="list-style-type: none">• Manage users• Read• Export• Reporting• Data Recovery |

LRIT Ship database requirements (1)

- Store, update, archive, export the ship data
- Online password accessible (web interface)
- Regular Data Transfer to ASP, DC (electronic file)
- System Monitoring interface (MC)
- User Management
- Reporting capabilities (journal, log, statistics)

LRIT database requirements (2)

- **Flexible for further data (ship details, ISPS, XML, etc)**
- **Availability and Reliability** -the LRIT DB shall be available 24/7 and able to perform its function for 99% of the time over a period of one year;
- **Metrics** - the number of ship records to be stored in the LRIT DB is 1,000,000, including history.
 - The maximum number of users is 1000 and the average accessing rate is expected to be of 100 users, with the possibility to have simultaneous active sessions.

LRIT database security requirements (3)

- **Identification & Authentication:** each user shall perform identification and authentication before exchanging information, by using a standard authentication process.
- **Authorization:** data authorization to LRIT Data Users shall be based upon the policy requirements established and implemented in accordance with the LRIT DB specifications.
- **Confidentiality:** the data stored in the LRIT DB will be protected and will not be disclosed to unauthorized entities (each MS accessing only its own ships).
- **Integrity:** data stored in LRIT DB can not be altered by any other entity except the owner of the data (each MS).

Timetable of the LRIT Database implementation

- 1. January 2008 : Kick off meeting**
- 2. February 2008: LRIT DB Functional requirements**
- 3. March 2008 : Start application development**
- 4. May 2008 : Start testing the application**
- 5. July 2008 : Data Base operational**
- 6. October 2008: Data Base populated with data**

Actions by MS (1)

- February 2008 - To provide the Commission/EMSA with the LRIT National Contact (LRIT NC) person for your Member State (at this WS);
- February 2008 - To provide the Commission/EMSA with the National Flag/DB Contact (NF DBC) person for your Member State, if different from LRIT NC (at this WS);
- February 2008 - To provide the estimate number of ships to be registered into the EU LRIT DB and the network to be used for LRIT messages (at this WS);
- February 2008 - Information about the existing National ship database (structure, format) and expected date of providing EU LRIT DB with requested data (at this WS);

Actions by MS (2)

- March 2008 - To provide the Commission/EMSA with the overseas territories to be included in EU LRIT DB (number of ships, messages, etc.);
- May 2008 – Start testing DB functionality – require 2-3 volunteer countries;
- July 2008 - To provide EU LRIT DB with ship information (electronic files) required by the IMO LRIT performance standards i.e. list of flag vessels (name, IMO, Call sign, MMSI) according to SOLAS Chapter V 19-1/ 2.1;
- 1 July 2008 to 1 October 2008 - To populate and start using the EU Ship Database Register;

THANK YOU FOR ATTENTION !

Questions ?

Comments !

LRIT DB Information!