

EMSA – European Maritime Safety Agency
Unit C.4 – Digitalisation and Application Development

Appendix D

Reference scenarios

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1 Introduction

This document describes the scenarios concerning the addition of a new message type in the international LRIT system infrastructure for the transmission of safety, security and environmental-related information between LRIT Data Centres (DCs). This involves not only communication between LRIT DCs - and therefore changes in the LRIT International Data Exchange (IDE), but also some adaptation to the LRIT Consumption Tool (LCT) covering the invoicing and billing aspects.

2 Change scenario overview

The new message type is an extension of the LRIT shore-side infrastructure system to transmit Ship information, without requiring changes to the shipborne equipment. It is also proposed that this expanded use of the shore-side infrastructure of LRIT be on an "opt-in" basis with no changes to the existing LRIT performance standards.

The new message is of Ship Information type and shall contain at least the following information:

- Ship Identifier;
- Number of persons on board (crew and passengers);
- List of passport Identifier of the persons on board;
- Voyage information (Estimated time of arrival, next port of call, ...);
- Expiration dates of the ship's certificates;
- Type and quantity of dangerous cargo on board, if exist;
- Transmission date;

The DCs shall have the ship information stored. Each time that a new ship is created or the information is updated by a user, the DCs shall generate a new message and send to all Data Centres that have decided to receive such information.

The demonstration of interest of each DC is done through the DDP, in a way similar to a coastal standing order, but using new XML elements.

2.1 Scenario 1 - EU LRIT DC

The EU LRIT CDC shall also be able to send ship information messages to the other DCs that are interested in this type of information.

The EU LRIT CDC shall also be able to receive ship information messages from the other DCs.

The EU LRIT CDC shall be able to provide the Ship Information through web user interface and system interface to users with specific access rights.

The EU LRIT CDC shall pass the necessary information to the LCT.

2.2 Scenario 2 - LRIT IDE

The LRIT IDE shall be able to process, archive the header and forward the Ship information message that is sent from a DC to another DC.

2.3 Scenario 3 - LRIT Consumption Tool

The LCT shall be able to receive from the EU LRIT CDC the information regarding Ship Information messages sent and received by the EU LRIT CDC and perform its invoicing and billing operations, assuming that both EMSA and Other DCs will pay for these messages.

3 Scenario evaluation

The main set of information to be provided by the tenderer for the evaluation of the scenario was already indicated in detail in the main tender requirements – refer to section 2.6 (Reference Scenarios).