

WEB SERVICE AND OPERATION DESCRIPTION

MIK PRIVATE V1.0

Fedict - Federale Overheidsdienst ICT
Fedict - Service Public Fédéral ICT



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TABLE 1 DOCUMENT HISTORY

Version	When	Who	What
1.0	25/3/2011	Johan Philippe	Document setup
1.1	29/3/2011	Johan Philippe	Comment integration (context clarification)

Objective of this document

The aim of the service and operation description is to provide a detailed functional description.

The request and response messages, endpoints and authorization are described in the corresponding service message description document.

The complete functional package contains: Service Message Content, Service Error Codes, Service Test plans and service management documents.

Target group

This document is intended to be read by managers and analysts.

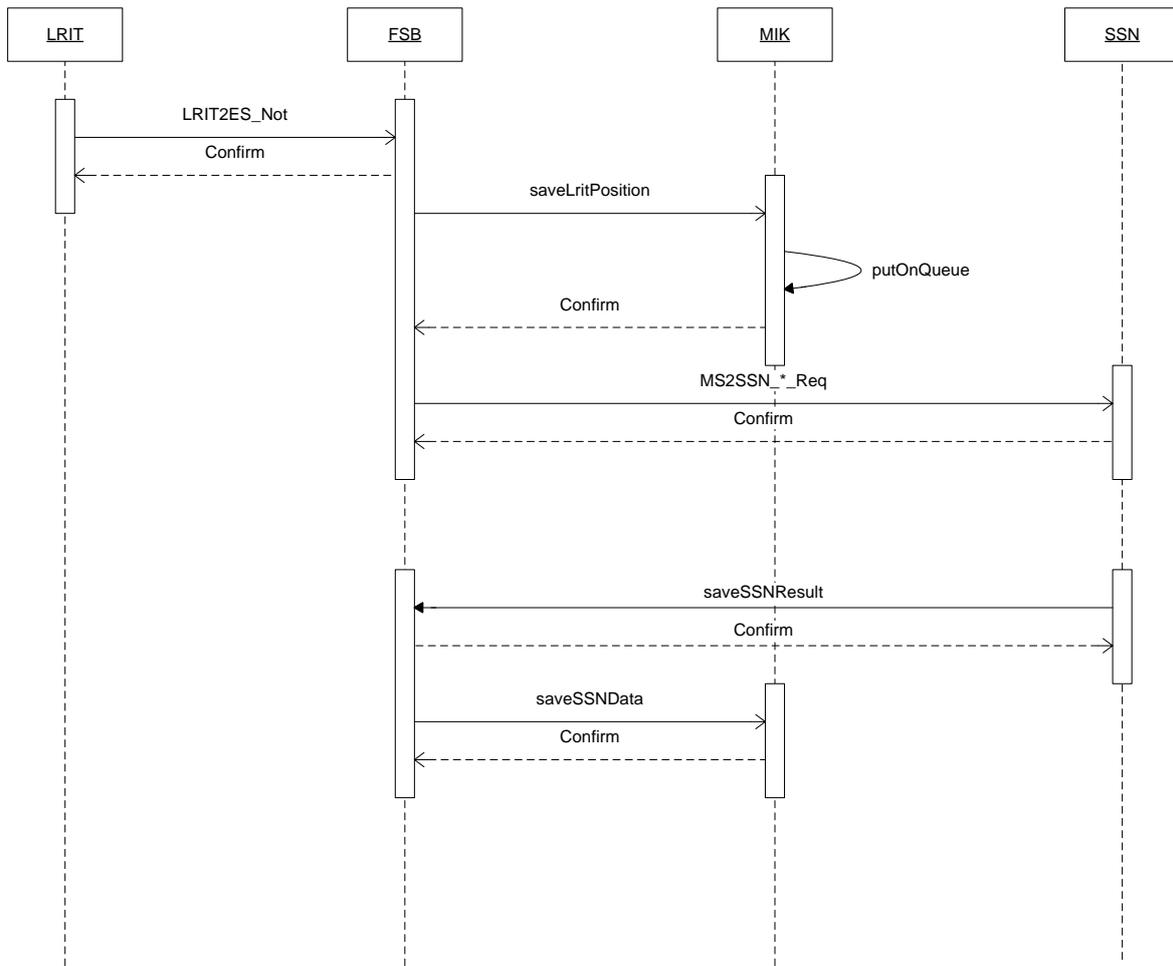
1 Introduction

This service ('MIK private') together with the services 'LRIT Endpoint' and 'SSN endpoint' provides MIK with the means to retrieve data from EMSA. MIK stands for 'Maritiem Informatie Kruispunt' which under the responsibility of FOD Mobility - Maritime Transport opens up access to ship location information. The information source for these locations (EMSA - European Maritime Safety Agency) is not free and MIK on the one hand consolidates the requests to EMSA and on the other hand also charges the end users for access to this information. MIK also consolidates the information from the two data sources that EMSA provides:

- LRIT: Long-Range Identification and Tracking
- SSN: SafeSeaNet

Public access MIK is provided through the 'MIK public' and 'MIK response' services. Here we cover the 'internal' means for MIK to retrieve the information needed to fulfil the obligations coming from requests to those services.

Both LRIT and SSN will asynchronously deliver the data, which is covered by the 'LRIT Endpoint' and 'SSN endpoint' respectively. When the 'LRIT Endpoint' receives an LRIT Position Report, it will automatically request the related information to SSN, which will then be delivered asynchronously through the 'SSN Endpoint':



This document details the MIK private service that allows MIK to request information from LRIT:

- Ships part data request
- LRIT position request

This document handles the web services MIK uses to contact LRIT.

Functionality	operation	WsdL service name
Request ships part data to LRIT	ShipPartsDataRequest	FsbMikPrivateService
Request LRIT position data (to LRIT)	LritPositionRequest	FsbMikPrivateService

For a clear understanding of some notions please check the reference documents listed in the appendix.

2 Service description

MIK needs to act both as a consumer and a provider in relation to FSB. MIK needs to be able to request specific LRIT operations. It is without question that this service is only visible, configurable and usable by the MIK.

2.1 OPERATION SHIPPARTSDATAREQUEST

The ShipPartsDataRequest operation is synchronously transforms the request to an ES2LRIT_ShipParts_Req and sends it to LRIT. LRIT responds with a reception confirmation which is synchronously passed back to MIK.

The data resulting from this request is asynchronously sent back using the LRIT endpoint service.

2.2 OPERATION LRITPOSITIONREQUEST

The LritPositionRequest operation is an asynchronous service. The operation responds with a technical ack to the consumer and then transforms the request to an ES2LRIT_Position_Req and sends it to LRIT. This is tried 3 times every 3 minutes.

3 Detailed Capability Scenario's

3.1 OPERATION SHIPPARTSDATAREQUEST

MIK request ships part data from LRIT.

3.1.1 STANDARD SCENARIO

MIK sends a ShipPartsDataRequest to FSB.

FSB transforms the message in an ES2LRIT_ShipParts_Req and sends to LRIT.

LRIT confirms the reception of the request.

FSB confirms the message.

3.2 OPERATION LRITPOSITIONREQUEST

MIK requests LRIT position data from LRIT.

3.2.1 STANDARD SCENARIO

MIK sends a LritPositionRequest to FSB.

FSB confirms the reception of the request.

FSB transforms the message in an ES2LRIT_Position_Req and sends to LRIT.

LRIT confirms the reception of the request.

3.2.2 ALTERNATIVE SCENARIO LRIT ERROR

The service will try to send the ES2LRIT_Position_Req message 3 times with 3 minute intervals to LRIT.

If after the third attempt, the service was still not successful, the error condition will be logged and the delivery aborted.

Appendix

REFERENCE DOCUMENTS

For more details the references provided by FOD Mobility have to be consulted.

Description	Dutch reference	French reference	English reference
Functioneel Ontwerp MIK knooppunt	Project_LRIT_MIK_Knooppunt_FSB_RFC_preparation.pdf		
FSB RFC preparation Project LRIT MIK			Project_LRIT_MIK_Knooppunt_FSB_RFC_preparation.pdf
LRIT technical specification of the XML interface			LRIT-SP-22-0064-CLS - XML Interface - Technical Specification-v1_2_1.pdf
LRIT XML Interface Requirements			LRIT_TR_XML Interface_Requirements_v1.2.pdf

Remark: the references in the table above are the current available versions and may change