EUROPEAN COMMISSION

EUROPEAN MARITIME SAFETY AGENCY

Praça Europa, 4 - Cais Do Sodré

1249-206 Lisbon, Portugal

SafeSeaNet

XML Messaging Reference Guide

Document version: 4.02

Document release date: 06/03/2020
SSN XSD version: 4.00
SSN XSD release date: 12/01/2018

Reference document of the IFCD defined in Annex III, paragraph 2.3 of Directive 2002/59/EC, as amended, establishing a community vessel traffic monitoring and Information system

Document Approval

	NAME	DATE	SIGNATURE
Prepared by:	M. Lima Galvao	06/03/2020	
Checked by:	EMSA SSN Team		
Quality control by:	P. Duchesne		
Approved by:	SSN Group	13/05/2020	
Approved by:	SSN HLSG		

Distribution List

COMPANY	NAME	FUNCTION	FOR INFO / APPROVAL
EMSA	SSN Team	-	Info
SSN Group	-	-	Approval
SSN HLSG	-	-	Approval

Change Control History

VERSION	DATE	AUTHOR	DESCRIPTION
0.01	02-Jun-03	F. Silvestre / M. Varga	Original issue
0.02	05-Jun-03	F. Silvestre / M. Varga	Modifications according to Yves's document about SSN messages description
0.03	10-Jun-03	F. Silvestre / M. Varga	Additional message types (Alert, CargoManifest)
0.10	11-Jun-03	F. Silvestre / M. Varga	1st external version – draft release
0.11	08-Jul-03	F. Silvestre	2nd version based on Member States comments
1.00	15-Jul-03	F. Silvestre	2nd external version – official release
1.10	04-Sep-03	M. Varga	3rd external version – official release
1.20	08-Sep-03	M. Varga	4th external version – official release, based on Yves Hardy comments
1.30	01-Oct-03	F. Silvestre	See p.5
1.40	20-Oct-03	F. Silvestre	See p.5
1.50	17-Nov-03	F. Silvestre	See p.5
1.60	26-Jul-04	W. Van Acker	See p.5
1.61	30-Mar-05	D. Veny	Incorporated feedback from France
1.62	13-Avr-05	D. Veny	Incorporated feedback from EMSA
1.63	12-Jun-06	K. Diamantopoulos M. Hadjistratis	Incorporating changes from Contact Sheets 77, 84, 93, 94, 96, 97, 98, 100, 105, 115, 118.
1.64	09-Jan-08	A. Argyropoulos	Incorporating changes from Contact Sheets
1.65	08-May-09	A. Argyropoulos	Incorporating changes from Contact Sheet 196.
2.00	19-Jun-09	Intrasoft Specs Team	Modified the structure of the document to introduce - definitions: a common table for all messages which will define the elements and attributes of all the messages will be inserted in the common part of the new XML Ref Guide. - overview: it describes the attributes and elements with their occurrences (mandatory or non-mandatory) for each message. - rules: it describes the specific rules applicable to each message. The elements and attributes already defined will just be named. Define the PortPlus Notification and ShipCall Request and Response messages.
2.01	23-Jun-09	Intrasoft Specs Team	Incorporated comments by EMSA.

VERSION	DATE	AUTHOR	DESCRIPTION
2.02	30-Jul-09	Intrasoft Specs Team	Correct the rules applying to the NotificationDetails and IncidentDetails elements.
2.03	11-Nov-09	L. Fiamma	Incorporated comments by Member States; corrected typing errors and minor layout changes
2.04	04-06-2010	Intrasoft Specs Team	Clarify the Occ of the Cargomanifest element in the MS2SSN_PortPlusNot message.
2.05	30-09-2010	Intrasoft Specs Team	Changes applied based on the XML Reference Guide v2.03 - Amendment n.1
2.06	25-10-2011	EMSA	Amendment of the XML Reference guide for SSNv2 as agreed with the MS and EMSA during SSN #15 and SSN #16.
2.07	02/04/2013	EMSA	Remove v1 port and hazmat notification message references. Revised version of the Incident Report distribution process and messages. Define the Voyage correlation business rules. Updated Annex A
2.08	11-12-2013	EMSA	Change element ‘CargoManifest’to optional in ShipCall response. Change element ‘ETA’to optional in ship AIS notification and response. Change description in “Bunker” element to mandatory for ships of more 1000 gross tonnage Corrections on Incident Report messages.
3.00	12/05/2014	EMSA	Amendment of the XML Reference guide as introduced in SSN 20/4/3, including comments following the meeting. Changes to the Ship MRS messages as introduced in SSN 20/4/1. Exemption type “Waste” included following the HLSG 10 decision. Changes to the PortPlus notification deletion of groups as introduced in SSN 21/4/5.
3.01	03/06/2014	EMSA	Inclusion of the deletion function in PortPlus notification as approved at SSN 21. Correction of typos related to the attribute “ReportingDateAndTime”
3.02	28/11/2014	EMSA	Correction of typos and inconsistencies with the XSD v3.00
3.03	14/10/2015	EMSA	Correctionsof typos and inconsistencies with the XSD v3.00 Non-technical amendments to the XML RG V3 to align with the SSN Guidelines on Reporting HAZMAT Port Facility generic code “0000” to be used in case port facility is not ISPS-approved

VERSION	DATE	AUTHOR	DESCRIPTION
3.04	16/11/2015	EMSA	Applicable to SSN version 3.2 release. Amendment on business rules for PortPlus notifications: - validation "ATA" for cases of long stays in port (more than 1 year) (SSN 23 Action point 9) - change of the control over "ETDFromPortOfCall"(reference document SSN 23.6.1, Action point 10) - correction on the business rule for "IMOHazardClass" and "UNNumber" removing the rule of mandatory for "IGC" (reference document SSN 24.4.2) Recommendation regarding element VesselDetails in PortPlus notifications
3.05	26/10/2016	EMSA	Applicable to SSN version 3.3 release. Amendment of business rules; - Incident Report messages - applicable to element P2_ShipOrObserverIdentification (reference document SSN 25.4.2, Action point 6) - PortPlus notification - change of the control over ETAToNextPort (reference document SSN 25.4.5, Action point 9) Clarifications and other rules not documented: - Archiving rules for Ship Calls(reference documentSSN 20.4.4) - POB restrictions of length - Inmarsat characters are not accepted
4.00	20/07/2016	EMSA	Applicable to SSN version 4.0 release: - Changes to the Waste information in the ShipCall Response message (revision of Dir. 2000/59/EC Annex I) - New Bunkers information group in the ShipCall Request/Response message (HLSG 14) - Amendments on the reporting of Exemption notifications (HLSG 15) and new Exemption Request/Response message. - Technical amendments to the hazmat information proposed by the Hazmat Working Group (HLSG 13) - Deletion of the Alert messages
4.01	31/10/2017	EMSA	Correction of typos and inconsistencies with the XSD v4.00
4.02	06/03/2020	EMSA	Added new and updated existing sample XML messages version to 4. General Rule applicable to the SSN2MS_ShipCall_Req message updated

Document information

CREATION DATE:	06/03/2020
FILENAME:	XMLMessagingRefGuide-04_02.docx
LOCATION:	Lisbon Portugal
NUMBER OF PAGES:	286

CONTENTS

Changes from previous versions

Description	A list of the changes from previous version is presented in Annex C

Foreword

Objectives of the SafeSeaNet project

The project will be built on the results already achieved in the framework of the TEN-Transport project for the setting-up of a telematic network between the maritime administrations of five Member States for the exchange of data concerning dangerous and polluting goods, in relation with the implementation of directive 93/75/EEC ("Hazmat network"). Compared to the Hazmat network, the scope of SafeSeaNet is more ambitious:

- Its geographical scope will cover all EU Member States and could be extended to EFTA maritime countries (Norway and Iceland), as well as the maritime acceding countries, with possible participation by other non-EU countries. It has to be emphasised that the existing national systems involve a number of different authorities, depending on the centralised or decentralised structure of the State concerned. The telematic network may therefore link authorities at local/regional level and central authorities.
- It shall take into account new IT technologies: SafeSeaNet shall be capable of functioning with means, such as the Internet and should be flexible enough to cope with possible future technological developments.

Legal Framework

All the requirements related to SSN defined by the following legal instruments: Directive 2002/59/EC as amended (establishing a Community vessel traffic monitoring and information system),Directive 2000/59/EC (on port reception facilities for ship-generated waste and cargo residues),Directive 2009/16/EC (on Port State control), Directive 2010/65/EU (on reporting formalities for ships arriving in and/or departing from ports of the Member States) and Regulation (EC) No 725/2004 (on enhancing ship and port facility security).

Document Overview

Introduction

This document will help you to understand the SafeSeaNet system implemented to enable the exchange of information between the Member States.

The first chapter makes a global presentation of the system while chapter 2 and chapter 3 describe the processes (flow) of the system and the messages conveying information between the Member States and SafeSeaNet.

Contents

The document contains the following chapters:

Chapter 1- SafeSeaNet System Overview

Overview

Introduction This chapter gives an overview of the elements SafeSeaNet system is based on.

Contents This chapter contains the following topics:

SafeSeaNet global Architecture

Description

The heart of the SafeSeaNet architecture consists of the SafeSeaNet XML Messaging System acting as a secure and reliable yellow pages index system and as a "hub & spoke" system (including authentication, validation, data transformation, logging, auditing,…), for sending requests to and receive notifications & responses from the right Member States (and corresponding NCAs).

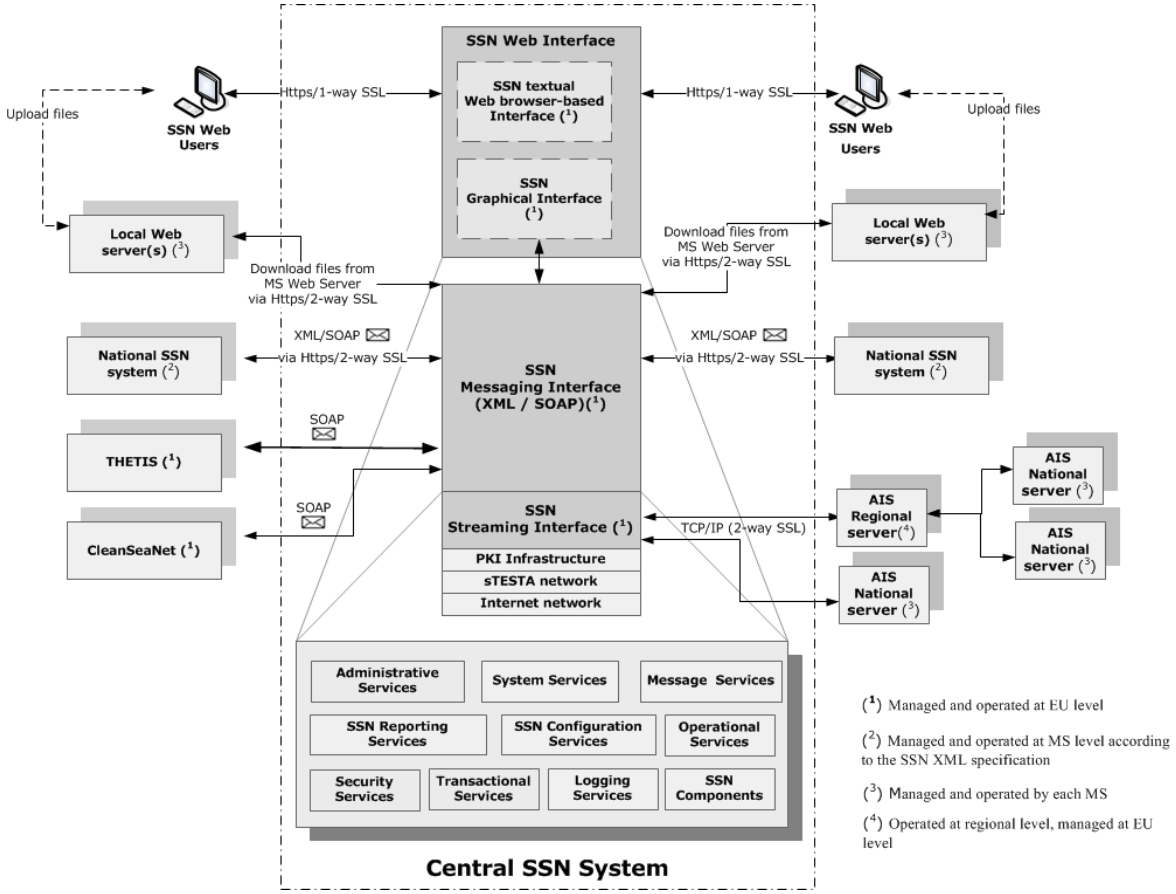
The system is using

- standard Internet protocols (XML, HTTPS,…),
- PKI infrastructure,
- Internet network or S-TESTA network,
- 2-way SSL communication between the central SSN system and the MS systems.

This SafeSeaNet XML Messaging System is the result of the SafeSeaNet project and is developed and managed by the European Community (in the EMSA premises).

Illustration

The following illustration outlines the SafeSeaNet global architecture. Please refer to "Chapter 2 - SafeSeaNet Functional Services Overview" at page 19 for more details about the functional services provided by the different interfaces (browser-based and XML interfaces).



Continued on next page

SafeSeaNet global Architecture, Continued

Centralized architecture

The solution consists of centrally hosted application offering the SafeSeaNet services (in the EMSA premises). The central SafeSeaNet system will then act as yellow pages (European Index) and information broker, and sometimes also as *data provider* (some sent notifications are already fully detailed, like the PortPlus notification). The Member States will act as *data providers* (by sending notifications to SafeSeaNet and responding to data requests coming from SafeSeaNet on behalf of other *data requesters*) and *data requesters* (by asking SafeSeaNet for detailed information about previous notifications). SafeSeaNet will provide two different interfaces to help the Member States communicate with the central SafeSeaNet system:

- A browser-based web interface
- An XML message-based interface made available in two forms:
  - A SOAP-based web-services one (refer to the applicable .wsdl file)
  - A bare XML messages one, as agreed among the SSN Participants (refer to the applicable .xsd file)

As such the solution is based on standard protocols (XML, HTTPS, SOAP...) and is centrally-deployed. There is no need for any special SafeSeaNet software/hardware deployment in each Member State except a Web server requiring a single HTTPS interface dedicated to receive the central SSN connections (for handling request/response either in simple HTTPS/XML or HTTPS/SOAP protocols and/or for storing documents corresponding to the details of sent notifications so that SafeSeaNet could download them on behalf of a *data requester*'s request).

XML Messaging Framework

SafeSeaNet is built as an XML messaging framework providing services to Member States by means of XML messages/documents exchange in a reliable, secure and in a choreographed (workflow) way. The best answer (product, components, …) to the architecture should offer, among others:

- Set of services and tools for sending, receiving, parsing, and tracking interchanges and documents (via Messaging services) over standard protocols (HTTPS, XML SOAP, ...)
- Set of services and tools to create and manage robust, long-running, loosely coupled business processes that span organizations, platforms, applications (via Orchestration services)
- Set of services and tools to administer servers, databases, queues, transactional services, security services, ...
- High availability and scalability through clustering and load balancing
- Open and extensible environment (via custom components, ...)

Scope of SafeSeaNet

Technical Background and context of work

Prevention of accidents at sea and marine pollution are essential components of the transport policy of the European Union. The EU maritime safety policy started with the publication in 1993 of the Communication of the Commission on "a common policy for safe sea". Since then, the Commission has initiated more than 15 proposed Directives or Regulations in the areas of safety of passenger vessels, prevention of pollution, port State control, social requirements for seafarers, etc.

The shipwreck of the oil tanker "ERIKA" on the 13 December 1999 caused the pollution of nearly 400-km of French coastline. Further to this accident, the Commission adopted in March 2000 a first set of proposals, known as the ERIKA-I package, followed in December 2000 and May 2009 by a second and third sets of measures, the so-called ERIKA-II and ERIKA-III packages.

The implementation of several of these measures includes the collection and dissemination of the data related to maritime activities. A number of competent authorities have been designated by Members States are bound to collect data from ships' masters or operators and to exchange information. Until now, exchange of data is not harmonised, making use of several means of communication, from phone or fax to EDIFACT or XML. This hampers considerably an efficient implementation of the EU maritime safety legislation

---

Implementation Constraints

The following rules must be strictly observed when implementing the central SafeSeaNet system and the national SafeSeaNet systems:

- For obvious scalability reasons, the exchange of XML messages between a national SSN system and the central SafeSeaNet system must be implemented in an **asynchronous** way. Technically speaking, when a NCA application sends, via HTTPS, an XML message (notification, request or response) to the central SafeSeaNet system, the latter one will answer with the HTTP '202 Accepted' status code. The same applies in the opposite way (from the central SafeSeaNet system to the NCA applications). The NCA application must take into account the asynchronous nature of the XML messages exchanged when implementing the NCA application user interface (e.g. using 'sync on async' technique, …).

Continued on next page

Implementation Constraints(continued)

- Every national SSN system (as well as the central SafeSeaNet system) must be designed to cope with potential communication and server problems (e.g. 'HTTP 500' returned by the SafeSeaNet server, final response not received from SafeSeaNet within time, HTTPS timeouts, …). As a general rule, as long as an XML message (request or response) has not been acknowledged with the HTTP '202 Accepted' status code, it's up to the sender to retry sending it (with a maximum number of retries). For instance, the central SafeSeaNet system is designed to retry sending a message a max. of 5 times every 2 seconds. Consequently, an XML message might never be sent (max. number of unsuccessful retries reached) at all. In that case (network or server congestion), manual intervention procedure must be triggered (e.g. via monitoring) to solve the problem. In the meantime, every NCA application must be designed to cope with these rare situations (e.g. not receiving a response to a previously sent request). Please refer to the description of the XML messages for more details.
- For security reasons:
  - HTTPS with 2-way SSL authentication must be implemented when sending messages and upon receiving messages.
  - The server(s) used for hosting the XML or SOAP interface as well as for the storing of documents that could be retrieved via a URL shall hold a valid client and server certificate issued by the EMSA certification Authority.

  Please refer to the "SafeSeaNet Security and Network guide" for more details.
- Every national SSN systemand the central SafeSeaNet system must provide a **single** address (url) for sending **and** another single address for receiving XML messages. The single SafeSeaNet address must be used by the national SSN systemto send XML messages (requests and responses) to the central SafeSeaNet system. The addresses provided by every national SSN systemwill be used by the central SafeSeaNet system to send XML messages (requests and responses) to the NCA applications.

Member States' responsibilities

In an environment where various actors collect, process and exchange data, it is imperative that the **responsibilities** are **clearly defined**. In fact, the fulfillment of the obligations that are laid out for each actor is a ***conditio sine qua non*** for the system.

Although this may seem a strict approach, it is no more than normal in an environment where standardized communication is implemented.

The **responsibility** for a site that **collects** (holds) data is twofold:

1. It needs to **notify** the central SSN system whenever a change (add, change, delete) of the data element occurs. This notification happens through a **well-defined** message. Correct implementation of this notification message constitutes the first responsibility of the site. The notification mechanism must act when data capture is done (usually this mean 24 hours a day)

Continued on next page

Member States' responsibilities(continued)

2. The second responsibility for such a site is being able to **respond to a request** whenever anactor requests information, the holderof that information will receive a (well-defined) request from the central SSN system. In **response** to that request, it must prepare the correct data, and transmit that back to the central SSN system, again using a **well-defined message** format. Being able to respond to a request, both in content (returning the correct information) and format (using the correct message format), constitutes the second responsibility of the site.

A data-holdingsite (Data Provider) must be reachable by the central SSN system over the Internet/TESTA 24 hours a day.

The responsibility for a site that wants to **request data** consists of being able to send a correct **request message**, and to be able to interpret the contents of the reply to such a message. To be able to contact the **central SSN system**, access to the **Internet and TESTA** is needed.

This kind of application would typically need to be available whenever there is a possible need to use *SafeSeaNet*. In practice this will mean that the possibility to request data must exist 24 hours a day.

Technically speaking, the data providers of each Member State must have an URL (Internet address) that the central SSN system can contact either through S-TESTA or INTERNET.

SafeSeaNet messages specifications

The SafeSeaNet project consists in providing a reliable and secure system and infrastructure for exchanging messages between the Member States.

But, it also provides sets of specifications helping them to develop the necessary interfaces for exchanging messages between their national SSN system and the central SafeSeaNet System.

For specifications about	See
▪ The flow of messages (requests and responses), ▪ The structures of each of these XML messages	This guide
▪ The Networking aspects	"SafeSeaNet Security Guidelines"
▪ The Security aspects	

Stakeholders

Introduction

SafeSeaNet considers 4 types of stakeholders:

- Coastal Stations
- Port Authorities
- Local Competent Authorities
- National Competent Authorities

Coastal Station (CS)

Coastal Station means any of the following, designated by Member States pursuant toDirective2002/59/EC, as amended:

- A vessel traffic service (VTS)
- A shore-based installation responsible for a mandatory reporting system approved (adopted) by the IMO
- A body responsible for coordinating search and rescue operations or operations to tackle pollution at sea

Port Authority (PA)

Port Authority means the competent authority or body designated by Member States for each port to receive and pass on information reported pursuant to Directive 2002/59/EC, as amended.

Local Competent Authority (LCA)

Local Competent Authority means the authorities and organizations designated by Member States to receive and pass on information pursuant to a directive.

National Competent Authority (NCA)

Physical entity designated by Member States in charge of handling and exchanging the SafeSeaNet messages related to the maritime safety and the traffic monitoring directive. The single point of contact within the Member State is designated as NCA in the framework of SafeSeaNet.

Single Point of Contact (SPOC)

Based on the outcome of the SafeSeaNet questionnaire, most of the Member States agreed to have only a single point of contact (SPOC) represented by the National Competent Authority (NCA) even though the Member State is organized through multiple maritime authorities managing their maritime data in a common central data store.

Continued on next page

Stakeholders, Continued

Single Point of Contact (SPOC)(continued)

In other words, this means that it is up to the Member State to manage and guarantee that the data requested by SafeSeaNet is always available through this single technical point of contact. It is up to the Member State to manage the one-to-many relationship.

Each country must provide a single address (url) for sending and receiving XML messages. This single address provided by every national SSN system provided will be used by the central SafeSeaNet system to send XML messages (requests and responses) to the point of contact.

Data Quality Guidelines

Data Quality Guidelines

The SSN Group at SSN 7 (Lisbon 31 May and 1 June 2007) agreed to set up an *Ad Hoc* Working Group on Data Quality with the objective to develop a "Data Quality Guideline covering the scope of the quality validations to be implemented into SSN". The specific objectives of the DQ WG were the establishment of automatic data quality checks and procedures to:

- Prevent mistaken data to enter into SSN. Before sending the SSN data to the central SSN system, the Member State's SSN national applications will perform a complete set of checks based on specific predefined rules ensuring the data cohesion.
- During the checking process, the national SSN application will verify that the message corresponds to the expectations. If no conflict detected the message will be send to the central SSN system, otherwise it will be rejected by giving a relevant warning to the message originator about the nature of the mistake.
- Additional checks at EU level by the Maritime Support Service will ensure the harmonized implementation.

The DQ group recognizes that the actors involved in the DQ chain are:

- SSN data originators (agents, masters or operators and Authorities)
- NCA
- LCAs
- EMSA

MS national SSN system will comply with the agreed technical set of rules adopted by the SSN group ensuring the content of the notifications is correct.

The agreed Guidelines are defined in the different XML messages ("Description" field).

EMSA pays full respect to the notifications of MS and in no case EMSA will modify any notification of the MS concerned. EMSA has the right to doubt and as soon as it detects an incorrect value it will draw the attention of the MS concerned.

Data encoding

Data Encoding

Every XML message exchanged between SafeSeaNet and the different Member States (and their corresponding NCA applications) must be **UTF-8** encoded.

The chosen language is English.

Network requirements

Introduction

Please refer to the document “SafeSeaNet Security Guidelines” (available on https://extranet.emsa.europa.eu under Other Sections: SafeSeaNet>Documents* [login required]> Protected Documents[1]).

Security requirements

Introduction

Please refer to the document “SafeSeaNet Security Guidelines” (available on https://extranet.emsa.europa.eu under Other Sections: SafeSeaNet>Documents* [login required]> Protected Documents[2]).

[1] Accessible by logging in with the usernames and passwords distributed to NCAs
[2] Accessible by logging in with the usernames and passwords distributed to NCAs

Chapter 2 - SafeSeaNet Functional Services Overview

Overview

Introduction

SafeSeaNet provides services enabling Member States to send notifications about ships and incidents, and to request detailed information about these notifications.

The central SafeSeaNet system will then act as yellow pages (European Index) and information broker, and sometimes also as *data provider* (some sent notifications are already fully detailed, like the PortPlus notifications, excepting HAZMAT details). In the case HAZMAT notification details are requested, the central SSNsystem will act also as data requester on behalf of the actual requesting MS.

The Member States will act as *data providers* (by sending notifications to SafeSeaNet and responding to data requests coming from SafeSeaNet on behalf of other *data requesters*) and *data requesters* (by asking SafeSeaNet for detailed information about previous notifications).

SafeSeaNet will provide two different interfaces to help the Member States communicate with the central SafeSeaNet system:

- A browser-based web interface
- XML or XML/SOAP-based web services messaging interface

This document aims only at describing the SafeSeaNet XML message-based interface that will enable the national SSN applications of the Member States to communicate programmatically with the SafeSeaNet system.

This chapter aims at describing, at a higher level, the functional services offered by SafeSeaNet, and how they should be implemented in terms of activities and exchange of XML messages between the central SafeSeaNet system and the national SSN applications.

SafeSeaNet Browser-Based Web Interface

SafeSeaNet will provide a browser-based web interface to help the Member States (acting as *data requester* or *data provider*) communicate manually and visually with the central SafeSeaNet system. This browser-based web interface will enable the Member States to:

- Manually send notifications to SafeSeaNet (by filling in web forms) – the Member State acting as *Data Provider*.
- Manually request detailed information about previously sent notifications (by filling in web forms and viewing results) – the Member State acting as *Data Requester*
- Visualisation of information provided to the central SSN system on a web-based geographical information system (GIS) technology over nautical electronic charts. The request to detailed information to the data provider is also available.

This web application will be hosted on the central SafeSeaNet system and accessible via S-Testa and Internet.

The description of this browser-based web interface is out of the scope of this document. It will be described in a separate document.

Continued on next page

Overview, Continued

SafeSeaNet XML Message-Based Interface

SafeSeaNet will also provide an XML message-based interface (in two variants, one being SOAP based) to enable the national SSN applications of the Member States to communicate programmatically with the SafeSeaNet system. The XML message-based interface consists of a set of XML messages fulfilling the needs of both *data requester* and *data provider*.

This chapter aims at identifying all these XML messages and describing how and when they should be used in the process flow of the different SafeSeaNet functional services.

Note about the services description

These processes have been defined for the sole purpose of illustrating, at a higher and more comprehensive business level, the functional services provided by SafeSeaNet (consisting of exchanging, in an orderly fashion, XML messages dealing with maritime information about vessels and alerts). Therefore, these processes do not dictate how the Member States should handle or process the information they hold.

Note about the NCA responsibilities

The Member States are responsible for developing their national SSN application in a way that it provides implementation for the sending, receiving and processing of the messages as described in the processes flow diagrams (see current chapter) and in the detailed description of the XML messages (See Chapter 3 - SafeSeaNet XML Messages on page 41).

Services description

- Administrative services: provide the administrative utilities necessary for administering system resources including databases and queues.
- System services: provide low-level technical services, utilities and frameworks.
- Operational services facilitate the execution of the SafeSeaNet business activities. A set of processes concerned with maintaining the operational service of the underlying infrastructure is predefined.
- Reporting services: provide operational and system usage reports to system users and administrators in one single transaction.
- SSN Configuration services: provide the utilities to configure the processes and threads involved in the system.
- Security services: include all the security features provided by the software architecture and frameworks.
- Transactional services: perform database and JMS message queue transactions.
- Logging services: provides the facilities to create, configure, and customize the logs. Enables logging of messages and message processing details.
- SSN Components provide the functional services of SafeSeaNet and are considered below. While from a high level logical perspective the functional services are divided in Notification related services and Information Request related services, technically speaking the SSN components are decomposed in two applications namely: ssn-core-app and ssn-xmlprotocol-app. While the first is primarily concerned with the business logic the later handles all the functionality concerned with the transmission of XML messages.

Continued on next page

SafeSeaNet Functional Services

The SafeSeaNet functional services that are related to the XML messaging mechanism can be divided into 2 groups:

- Notifications
- Information Requests

These 2 groups of functional services are described in the following pages.

Contents

This chapter contains the following sections describing the processes:

Definition of a *Data Provider*

Introduction

In SafeSeaNet, a *Data Provider* is a Member State holding some information about vessels and incidents, making it available to *Data Requesters* by sending notifications to SafeSeaNet and responding to requests for detailed information.

This map explains the responsibilities of a *Data Provider* and how it may interact with the SafeSeaNet system.

Responsibilities

The responsibility of a *Data Provider* is twofold. It must:

- Send notifications to SafeSeaNet about vessels and incidents, indicating it holds some detailed information about these notifications which is made available on request.
- Respond to SafeSeaNet's requests (on behalf of *Data Requesters*) for detailed information about notifications.

SafeSeaNet Supplied Interfaces for *Data Provider*

SafeSeaNet provides two different interfaces to enable *data providers* to send notifications to the central SafeSeaNet system:

- the browser-based web interface,
- the XML message-based interface.

However, to respond to SafeSeaNet's requests for detailed information about notifications, SafeSeaNet only provides the XML message-based interface (see below for more details).

Continued on next page

Definition of a Data Provider, Continued

Data Provider capabilities

The *Data Provider* is the one who has sent a notification to SafeSeaNet telling it holds some kind of information, and is ready to share it. But sharing the information can be done in 3 different ways depending on the capabilities of the *data provider*:

- If the *data provider* does not have any application server nor web server to serve detailed information, then SafeSeaNet will merely send back the *data provider* contact details (contact person name, phone, fax and email as defined in the central SafeSeaNet configuration database or supplied in the notification message) in the response to the *data requester*.
- If the *data provider* does not have an application server (talking XML) but has a local (national) web server where it may store documents (pdf, doc,… format) corresponding to the detailed information it holds (note that the url of the document must have been given in the notification message), then SafeSeaNet will fetch the document from the web server and:
  - In case of a response to Hazmat or Incident request from the *data requester* will send it back, Base64-encoded,
  - In case of a response to a ShipCall request the central SSN system will mask the URL provided in the data provider's notification and replace it with a surrogated SSN URL (hosted by EMSA).
- If the *data provider* has implemented the SafeSeaNet XML messages specifications (as described in this document), then SafeSeaNet will ask the *data provider* to send back the detailed information in XML format. SafeSeaNet will then send back the XML response to the *data requester*.

Browser-based Web Interface for *Data Provider*

In terms of *data provider*'s responsibilities, the browser-based web interface enables *data providers* to send notifications to SafeSeaNet right out-of-the-box, i.e. without implementing anything. Obviously, such browser-based web interface implies user interaction in terms of keying in information and reading displayed information, and, therefore, cannot be used to communicate automatically and programmatically with the SafeSeaNet system.

For small entities putting their detailed information as documents on a national web server, the browser-based web interface allows them, when sending a notification, to give the url where they have previously stored the document containing the detailed information of the notification.

Continued on next page

Definition of a Data Provider, Continued

XML Message-based Interface for *Data Provider*

The XML message-based interface supplied by SafeSeaNet enables automated communication between a national SSN system and the central SSN system. The XML message-based interface consists of a set of XML messages fulfilling the needs of both *data requester* and *data provider*.

In terms of *data provider*'s responsibilities, the XML message-based interface provides XML messages enabling a national SSN system (acting as *Data Provider*) to:

- Send notifications to the central SafeSeaNet system
- Respond to SafeSeaNet's requests (on behalf of *Data Requesters*) for detailed information about notifications

Obviously, such interface requires some development effort in terms of implementing the set of XML messages described in this document. Nevertheless, for *data providers* already equipped with central stores, automating the *data provider* services using this XML message-based interface can quickly provide benefits like sending notifications faster, reducing the risk of typo error (no need for manual typing).

The XML messages related to the *data provider*'s responsibilities are easily identified through the following naming convention:

- The *data provider* sends ***MS2SSN_<SSN_Tx_Type>_Not*** XML notification message to SafeSeaNet and receives ***SSN_Receipt*** XML message back as confirmation.
- The *data provider* receives ***SSN2MS_<SSN_Tx_Type>_Req*** XML request message from SafeSeaNet (on behalf of a *data requester*'s request) and sends back ***MS2SSN_<SSN_Tx_Type>_Res*** XML response message to SafeSeaNet.The *data provider* receives ***SSN_Receipt*** XML message back as confirmation.

In the case of the SOAP variant of the messaging mechanism the above mentioned messages are inserted in the SOAP body of a SOAP compliant message.

Please refer to "Chapter 3 - SafeSeaNet XML Messages" at page 41 for more details.

Definition of a *Data Requester*

Introduction

In SafeSeaNet, a *data requester* is a Member State asking SafeSeaNet to get information about a port, a vessel or incidents in an area. A *data requester* can be also SafeSeaNet asking HAZMAT details to the actual data provider on behalf of a third requesting NCA. Essentially, this information is based on previous notifications sent by the *data providers*. When detailed information about a notification is requested by a *data requester*, SafeSeaNet will ask the corresponding *data provider* to get the detailed information and send it back to the *data requester*.

This map explains how a *data provider* may interact with the SafeSeaNet system.

SafeSeaNet Supplied Interfaces for *Data Requester*

SafeSeaNet provides two different interfaces to enable *data requesters* to ask information to the central SafeSeaNet system:

- the browser-based web interface,
- the XML message-based interface.

Browser-based Web Interface for *Data Requester*

In terms of *data requester* needs, the browser-based web interface provides *data requesters* with a rich interface for getting detailed information about any of the sent notifications (provided they have been granted access to) right out-of-the-box, i.e. without implementing anything. Obviously, such browser-based web interface implies user interaction in terms of keying in information and reading displayed information, and, therefore, cannot be used to communicate automatically and programmatically with the SafeSeaNet system.

XML Message-based Interface for *Data Requester*

- The XML message-based interface supplied by SafeSeaNet enables automated communication between a national SSN system and the central SSN system. The XML message-based interface consists of a set of XML messages fulfilling the needs of both data requester and data provider.
- Although the browser-based web interface offers out-of-the-box a richer interface, some Member States might be tempted to implement the XML message-based interface to build their own data requester application. Obviously, such interface requires some development effort in terms of implementing the set of XML messages described in this document.
- The XML messages related to the data requester needs are easily identified through the following naming convention:
- The data requester sends MS2SSN_<SSN_Tx_Type>_Req XML message to SafeSeaNet and receives SSN_Receipt XML message back as confirmation
- The data requester receives back SSN2MS_<SSN_Tx_Type>_Res XML message from SafeSeaNet

Please refer to “Chapter 3 - SafeSeaNet XML Messages” at page 41 for more details.

Description of the “Send Notifications” process

Purpose

This process outlines the flow of activities performed when a Member State (acting as *Data Provider*) sends a notification to SafeSeaNet. Notifications aim at telling SafeSeaNet that a Member Stateholdssome kind of information about a vessel or about an incident.

Notification Types

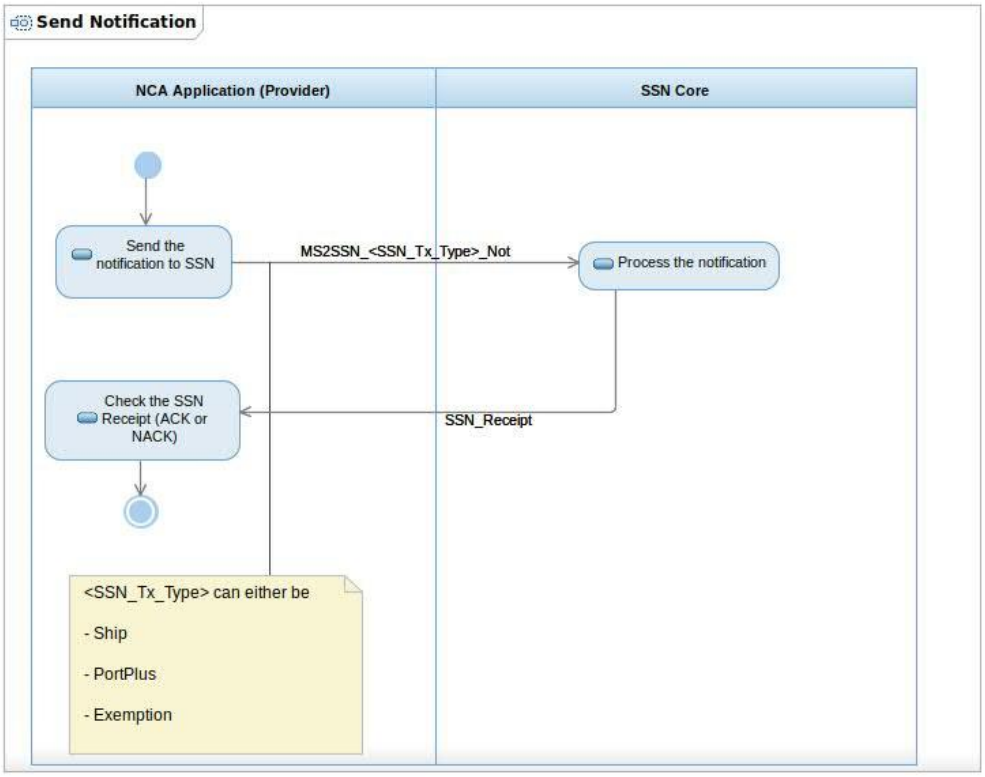
Notifications can be of 3different types:

Type	Description
Ship	Used to notify SafeSeaNet about a ship’s position, identity, voyage and cargo information. A ship notification is essentially based on either an MRS or AIS message.
PortPlus	Used to notify SafeSeaNet in cases of: ▪ Pre-arrival notification of information at least 72 hours before the ship’s arrival in a EU port whenever the ship is eligible for an expanded PSC inspection; ▪ Pre-arrival notification of information at least 24 hours before the ship’s arrival in a EU port; ▪ Arrival notification, upon actual ship’s arrival; ▪ Departure notification, upon actual ship’s departure; ▪ Notification of dangerous and polluting goods carried onboard a ship leaving or bound for an EU port (HAZMAT); ▪ Pre-arrival notification of security information at least 24 hours before the ship’s arrival in a EU port; ▪ Pre-arrival notification of waste and cargo residues at least 24 hours before the ship’s arrival in a EU port; ▪ Nofication of bunkers carried onboard a ship leaving or bound for an EU port (reported separately from the notification of dangerous or polluting goods). This notification is to be made available via SSN by Member States that require that information on bunkerson boardis reported in their National Single Window using FAL 3 - Ship’s Store Declaration.
Exemption	Used to notify SafeSeaNet about an exemption granted to a ship

Continued next page

Description of the “Send Notifications” process, Continued

Flow



As mentioned earlier, the browser-based web application that SafeSeaNet will provide could act as the national SSN system in the figure above.

Continued on next page

Description of the "Send Notifications" process, Continued

Description of the flow

Step	Action
1	The national SSN system prepares the ***MS2SSN_<SSN_Tx_Type>_Not*** XML message corresponding to the type of the notification and sends it to SafeSeaNet.
2	SafeSeaNet logs and validates the notification message. ▪ If valid, it stores the notification information in its index database, and sends back the ***SSN_Receipt*** XML message with a positive status code as response (synchronous connection). ▪ If invalid or any problem during the processing of the notification, it sends back the ***SSN_Receipt*** XML message with a negative status code as response (synchronous connection).
3	The national SSN system analyzes the received XML response and processes it accordingly.

XML messages For more details about the XML messages used by this process, see "Send Notifications" at page 64.

PortPlus Notification Message Consolidation into a Voyage process

Applicable definitions:	1. Voyage: ship passage from the port of departure to the port of arrival to which the hazmat information applies, if any. Voyages are created in the ssn database based on the information provided by the port of destination or the port of departure or both. 2. Data correlation: is the integration of the set of data applicable to a single voyage provided in different notifications and from different senders. Correlation shall be attempted using the meaningful operational data provided in the notifications by MS. 3. European voyage duration (EVD) is a configurable parameter (to be set e.g. in 15 days) identifying a maximum duration for a ship voyage between two European ports. This parameter will be used for identifying if one or more estimated times in notifications concerning a voyage between two European ports must be considered "dummy (ies)" and, so, to be ignored by the SSN central system in the data correlation process. 4. World voyage duration (WVD) is a configurable parameter (to be set e.g. in 30 days) identifying a maximum duration for a ship voyage between a world (Non SSN participant port) to a EU port. This parameter will be used for identifying if one or more estimated times in notifications concerning a voyage between a world port and European ports must be considered "dummy (ies)" and, so, to be ignored by the SSN central system in the data correlation process. 5. Active Hazmat (EU departure): A Hazmat EU departure is considered "active" from the ATD (or in case of non-

	availability of ATD such in the case of SSN V1 Hazmat notifications, the ETD) provided by the departing port: • Until an ATA Port of Call notification will be received for the ship "in the future" with respect to the ATD (ETD) from the port of departure, or • Until a new Hazmat declaration for the ship will become active, or • Until the period [ATD (ETD) from departure port+EVD] is elapsed if vessel is heading towards a European destination • Until the period [ATD (ETD) from departure port+WVD] is elapsed if vessel is heading towards a non-EU port or unknown destination. 6. Active Hazmat (Non EU Departure): A Hazmat Non EU departure is considered "active" for a period: • From ETD port of departure (if available) until ATA (ETA) port of Call, or • From its registration (defined by the SentAt) to the system and until the ATA (or in case of non-availability of ATA, the ETA Port of Call). Conditions are: o [ATA (ETA) port of call) - SentAt timestamp] <= WVD (proposed 30 days) o In case this condition is not met the notification is active for a maximum period defined by [ATA (ETA) port of call) – WVD (planned 30 days)]

The primary scope of the voyage consolidation is to identify all the notifications transmitted to EIS that refer to the same ship call (defined in SSN as a voyage). PortPlus notifications sent with the same ShipCallID are parts of the same voyage. However, a voyage may include notifications sent by more than one data provider and therefore different ShipCallID. A voyage of the same vessel may be reported by the arrival port (as PortOfCall) and by the departure port (as LastPort) if next port is reported.

The consolidation process, which takes place at the time of registration of a notification in the system and needs to check if the incoming notification will cause update of an existing voyage that is previously reported by a MS or shall create a new one, follows a set of guidelines defined hereunder:

- Check/ Retrieve a voyage from SSN attempting to match ShipCallIds in the incoming notification and a voyage recorded in SSN.
- If the no voyage is found using the ShipCallId, the system will retrieve voyages based on the reported Ports and Times of arrival and departure from them.
- Following the retrieval of a voyage, the "matching process" should initiate to check if the data in the voyage retrieved from SSN could be correlated with the data reported in the notification. For the voyage matching process, the rules applicable are defined in the paragraph "matching voyage sub-process" rules, here-below.
- There is a possibility to check an incoming notification against a number of voyages in SSN, a new voyage could be created only after the completion of the matching procedure.
- Should the result of the process would be the creation of a new voyage with ETAPortOfCall "closer" in the future with regards the ETAPortOfCall reported in the voyage that at the "receivedAt" has status "on-going", there is a clear indication that the destination of the ship has been altered. In this case the system shall initiate the relevant process of re-assign the Hazmat that is "active" at "receivedAt of the notification", if exists, to the new voyage.

The following table defines the rules of voyage retrieval that are used during the "matching" process. More specificallythe 2nd column defines the rules based on which SSN decides which voyage has to be retrieved from SSN for the reported vessel (if exists) and action to be taken in case the Notification does not report the ShipCallId.They are used to decide if there is a voyage in SSN whose data could be correlated with the data reported in the incoming notification.

The voyage selection criteria make reference to the voyage status indicator defined further under.

Notification reports	**Voyage selection criteria**
ATDPortOfCall voyage closed	Fetch the most recently "closed" status voyage, if exists, and initiate the voyage matching process. If no match is to be found fetch the voyage with status "at port", if exists and try to resolve the notification with it. If no match found fetch the most recently created voyage" with status unknown and try to match. If not a match found create a new voyage in SSN with the data in the notification.
ATAPortOfCall vessel at port	Retrieve the voyage with status "at port" for the vessel, if exists. If no match is found fetch the voyage with status "on-going" and start the matching process. If no match is found fetch the most recent voyage with status unknown for the ship and start the matching process. If no match is found create a new voyage based on the data in the notification.
ETAToPortOfCall on-going voyage	Retrieve the voyage with status "on-going" for the vessel, if exists. If no match is found fetch the voyage with status "at port", if exists, and start the matching process. If no match is found fetch the most recent voyage with status unknown for the ship and start the matching process. If no match is found create a new voyage.
ETAToPortOfCall future voyage	Check if there exists a future voyage where the ETAPortOfCall of the voyage in SSN is closest in the future with respect to the ETDLastPort reported in the notification and start the matching process. If no match found retrieve and fetch, if exists, the ["Unknown" voyage with ETAPortOfCall in the future] where the ETAPortOfCall of the voyage in the database is closest in the future with respect to the ETDLastPort reported in the notification and start the matching process. If no match found create a new voyage.
ETAToPortOfCall unknown voyage with ETA in the future	Retrieve the voyage with status "on-going" from the database, if exists, and try to resolve. If no match found fetch the most recently created voyage with status "unknown", if exists, and try to resolve the vessel. If a match is not found create a new voyage in the database.
ETAToPortOfCall unknown voyage with ETA in the past	Retrieve the most recently created voyage with unknown status from the same data provider, if exists, and cancel it. If a Hazmat was linked to the voyage that is cancelled the process of matching the Hazmat with another voyage in the

	database should initiate again because this is one of the change of destination cases.
PortOfCall = "ZZCAN" reported with a PortPlus notification. Voyage is cancelled.	Caution is taken for the case of change of destination. Fetch the voyage with the same ShipCallId and cancel it. The Hazmat linked to the voyage is not cancelled and should be linked with another voyage recorded in SSN for the given vessel. Following the cancellation of the ship call SSN will check again the current status of voyage as reported by the notification that initially included the Hazmat information. Re-initiate the process of voyage retrieval. Based on the status of the voyage as reported in the notification and on the processes highlighted above, for retrieving a voyage recorded in SSN, identify the voyage where the Hazmat info has to be linked.
An update of a PortPlus message reporting Hazmat EU departure where the data provider changed the HazmatYesNo attribute value from "Yes" to No.	Retrieve the voyage with the Hazmat ShipCallId pointing to the notification that included the changed HazmatYesNo attribute change and update the voyage. A Hazmat EU notification previously sent with a PortPlus message is ignored. Should for the voyage to the NextPort a PortPlus from the Port of arrival has been received, the voyage cannot be cancelled.

The following table defines the rules based on which a voyage is perceived to be at a given status at a given point in time (e.g. of the notification processing).

Status	Rules
On going	A. The voyage has an ATDFromLastPort, AND, the voyage has no ATAPortofCall, or B. The voyage has no ATDFromLastPort, AND, the voyage has an ETDFromLastPort in the past, AND, the voyage has no ATAPortofCall.
At port	A. The voyage has an ATAPortofCall, AND, the voyage has no ATDPortofCall.
Closed	A. The voyage has an ATDPortofCall, or B. The voyage has an ATAPortofCall, AND, the voyage has no ATDPortOfCall, AND, the voyage has an ETDFromLastPort two years in the past, or C. The voyage has no ATAPortofCall, AND, the voyage has no ATDPortofCall, AND, the voyage has an ETAPortofCall before the configurable archival period (i.e. 60 days).
"Dummy"	Case 1: case covering on-going dummy voyages A. The [ETAPortofCall + [a configurable parameter, ETA_MARGIN e.g. 2 hours]] is in the past, AND, the voyage has no ATAPortOfCall, AND, there is at least one voyage to another port with an ATAPortOfCall later that the voyage's ETAToPortOfCall, or Case 2: case covering on-going to non-EU port dummy voyages B. The [ETAPortofCall + [a configurable parameter, ETA_MARGIN e.g. 2 hours]] is in the past, AND, the voyage has no ATAPortOfCall, AND, the voyage's PortOfCall is non-EU, or Case 3: case covering at port dummy voyage

	C. The voyage has an ATAPortofCall, AND, the voyage has no ATDPortofCall, AND, there is at least one voyage to another port with an ATAPortOfCall later that the voyage's ATAPortofCall.
Future	A. The voyage has no ATDFromLastPort, AND, the voyage has an ETDFromLastPort in the future, AND, ETAPortOfCall is in the future.
Cancelled	Receipt of ZZCAN for the port call reported via PortPlus.

"Matching voyage" sub-process. Following the retrieval of a potentially "matching" voyage from the SSN central's database the correlation sub-process will attempt to determine if the data reported in the notification could be consolidated with those in the existing voyage in the database based on the following rules.	
1	The correlation process considers the following operational data: • LOCODE of the departure port reported in notifications; • ATD (or in case of absence of ATD, the ETD) reported from departure port in the notifications; • LOCODE of the Port of Call reported in notifications; • ATA (or in case of absence of ATA, the ETA) to Port of Call reported in the notifications;
2	The correlation process ignores non meaningful data (unknown port of call, dummies ETA port of Call, ETD port of Call or ETD last port) quoted within notifications.
3	The correlation process also ignores the ETA Port of Call information, even if it is not dummy, included in the notification provided by the departure port. It gives preference to the ATA quoted from the port of Call or, in case of absence of the ATA, to the ETA from port of departure quoted by the arrival port.
4	The correlation process is successful (that is ship call information provided by different providers is merged to a single voyage) in the case the SSN central application can safely determine that: • in the notifications provided by different providers the information related to departure and arrival ports locations match to each other, or at least; • in the notifications provided by different providers the location of the port of departure as declared by the port of destination is in the same country with the departure location declared in the port of departure notification.
5	If notifications sent by the departure port concerning EU departures quote an unknown destination and the Hazmat declaration associated to the notification becomes active, SSN shall link the Hazmat declaration associated to the notification to the ship voyage with the closest ETA in the future.
6	If: • notifications sent by the departure port concerning EU departures quote as prospective port of call a known destination, and • the Hazmat declaration associated to the notification becomes active, SSN shall link the Hazmat declaration to the ship voyage with the closest ETA in the future (with respect to the ATD, or in case of ATD absence, the ETD from port of call). For the correlation will be considered the notification from arrival port (PortPlus) which either:

	a) Identifies as last port, the port that provided the Hazmat EU departure notification or, b) Does not include any information on last port. If the port of call (in the ship call notification with nearest ETA in the future) differs from the one identified within the notification provided by the departure port, preference is given to the port of call information as defined in the notification (PortPlus) sent by the Port of Call. That is, in such a case the next port of arrival information provided by the port of departure is ignored.
7	In the event that there exist (in the system) an active Hazmat notification Hazmat1 which is linked to a voyage1 with an ETA1 to Port of Call and at a certain point in time this ETA1 is elapsed by at least 2 hourswithout prior registration in the system of a new Hazmat notification Hazmat2 for the vessel, the Hazmat1 notification will be linked to the next available (in the system) Ship Call with nearest ETA in the future. This will happen for as long an ATA for the vessel is not provided and until the expiration of the Hazmat1 been active. i. SSN will never attempt to correlate a Hazmat EU departure to a ShipCall that reports an arrival with Hazmat from a Non-EU Port. ii. If for a ship the following exist in the system: a) A Hazmat EU departure destination towards non EU country b) A Hazmat Non-EU departure with last port = non EU country and their “active” period is “overlapping” the end-active date for Hazmat EU departure declaration and start-active date for Hazmat non EU declaration the following adjustment will be made: – If the Hazmat EU departure notification provides a “not dummy” ETA to destination port and the Hazmat non EU departure notification provides a “not dummy” ETD from the Non EU port , the ETA to destination port is ignored and system will consider [EndActiveDateTime for Hazmat EU departure]=[ETD from Non EU port declared in Hazmat Non EU departure notification]= [StartActiveDateTime for Hazmat Non EU departure notification] – If the Hazmat EU departure notification provides a “not dummy” ETA to destination port and there is no ETD from the Non EU port declared in the Hazmat non EU departure notification the system will consider [EndActiveDateTime for Hazmat EU departure]=[ETA to destination declared in Hazmat EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification] – If both estimated times are missing or are considered dummies the system will consider [EndActiveDateTime for Hazmat EU departure]=[SentAt of Hazmat non EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification] iii. If for a ship exists the following co-exist in the system: a) A Hazmat EU departure destination towards non EU country where the ETA to destination (ETA1) is provided and is not dummy b) A Hazmat Non-EU departure with last port = non EU country where the ETD from departure port (ETD1) is provide and it is not dummy c) There is a logical relationship between ETA1 and ETD1 (ETA1<ETD1)

	Then the active period for the Hazmat EU departure notification and Hazmat non EU departure notification will be set as follows. iv. Active period Hazmat EU departure notification : From ATD (or in case of ATA absence the ETD) from port of departure to ETA1 v. Active period Hazmat non EU departure notification: From ETD1 to ATA (in case of absence ETA+2hours) to destination vi. If for a ship exists the following co-exist in the system: a) An "active" Hazmat EU departure declaration with ZZUKN quoted as destination b) An active Hazmat Non-EU departure declaration provided by the port of Call with no information on the last port (no ETD from departure port) SSN will consider the "unknown" destination of the ship, declared in the EU departure notification actually as a non-EU port (provided that no further ship calls are found in the system with an ETA in the future quoting as last port the sender of the above notification.). In such a case the system will consider that the date/ time the Hazmat EU declaration stops to be active will be the data that the Hazmat Non EU declaration will become active (SentAt of the Hazmat Non EU Departure).

Notes on voyage consolidation rules:
1. Based on the applicable rules, the NextPort is not mandatory in case of HazmatNotificationInfoEUDepartures with HazmatOnBoardYorN="Y".However, in order to be able to cancel the Hazmat in the corresponding voyage towards e.g. Port A the NextPort=" Port A " is required in order SSN central system to determine the voyage for which the Hazmat was initially reported and is now canceled.

Description of the “Information Requests” process

Purpose

This process outlines the flow of activities performed when a Member State requests to SafeSeaNet some detailed information about a notification. Requesting information implies a *data requester* (the Member State requesting the information), the *SafeSeaNet* system (acting as yellow pages and information broker) and a *data provider* (the Member State holding the information and having told this to SafeSeaNet through a previous notification).

Information Request Types

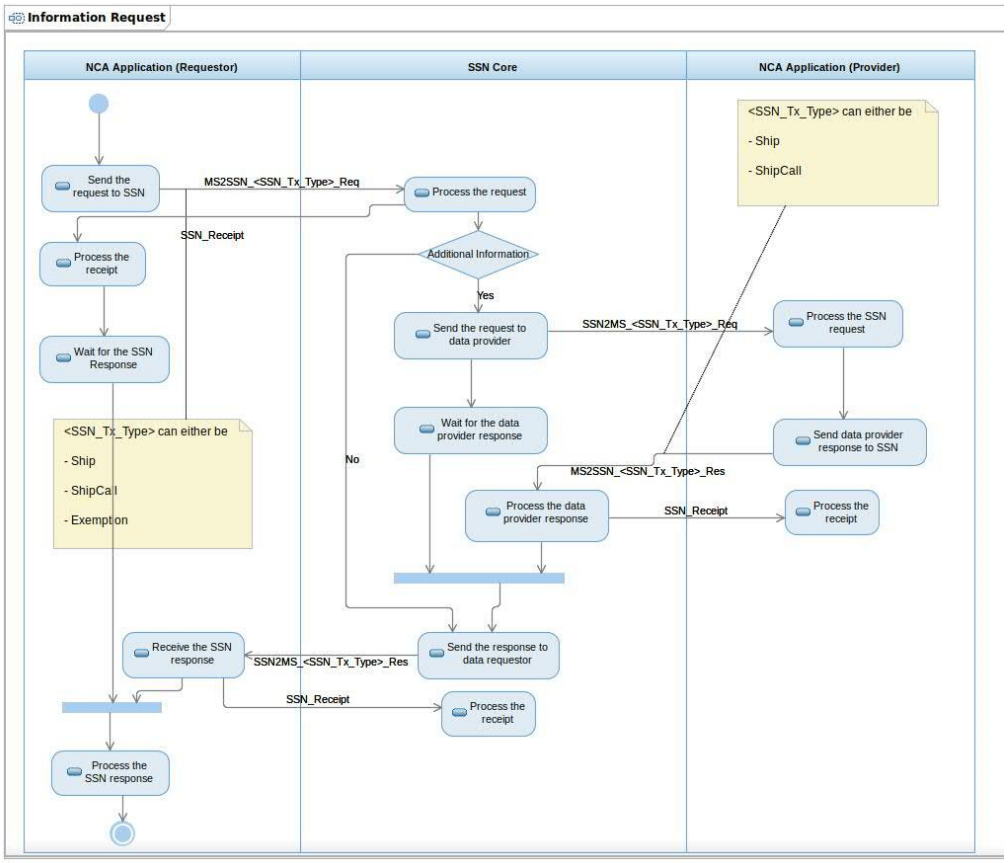
Information requests can be of 3different types:

Type	Description
Ship	Used to get detailed information about a given ship notification. Upon receiving such request, SafeSeaNet will ask the actual *data provider* to send him the detailed information. SafeSeaNet will then send it back to the *data requester*.
ShipCall	Used to get details from PortPlus notifications regarding a ship or calls in a port. Search parameters give the possibility to request PortPlus notification details at various stages of a ship call (expected ship call, most recent arrival, most recent departure, completed ship calls, active situation of a ship etc…). Users may request additional detailed information regarding dangerous and polluting goods (Hazmat), bunkers, or security information, as is stored in the national SSN System of the relevant MS. Request results may consist in a unique ship call or in a list of ship calls. Detailed information can only be requested of a unique ship calls (not provided for list of ship calls).
Exemption	Used to get details from active Exemptions reported to central SSN system regarding a given ship, issued by a country, applied in a port or of a specific type. Search parameters give the possibility to include a combination of the multiple criteria. In addition, there is also the possibility to request the list of all active exemptions.

Continued on next page

Description of the "Information Requests" process, Continued

Flow



The process flow illustrates the case where the *data provider* can talk XML with SafeSeaNet.

As mentioned earlier, the browser-based web application that SafeSeaNet will provide could act as the national SSN system (*DataRequester* part only) in the figure above.

Continued on next page

Description of the "Information Requests" process, Continued

Description of the flow

Step	Action
1	The national SSN system (*data requester*) prepares the MS2SSN_<SSN_Tx_Type>_Req XML message corresponding to the type of the information request and sends it to SafeSeaNet. ▪ Contrary to the notification principle, the communication is now asynchronous. Therefore, upon receiving the synchronous transport acknowledgement (HTTP return code 202 and SSN_Receipt message with StatusCode='OK', meaning request accepted), the national SSN system should wait for receiving asynchronously the SSN2MS_<SSN_Tx_Type>_Res XML response from SafeSeaNet.
2	SafeSeaNet logs and validates the received ***MS2SSN_<SSN_Tx_Type>_Req*** XML message. ▪ If well-formatted (XML compliant) or valid (compliant to corresponding XSD), an SSN_Receipt message with StatusCode='OK' is sent synchronously. It then looks in its index database to find out who's the holder of the requested information. Assuming the *data provider* is able to talk XML with SafeSeaNet (see above for more details about *data provider* capabilities), SafeSeaNet will send a ***SSN2MS_<SSN_Tx_Type>_Req*** XML message asking the data provider to send the requested detailed information and wait for receiving asynchronously the ***MS2SSN_<SSN_Tx_Type>_Res*** XML response from the *data provider*. ▪ If any problem during the processing of the *data requester* request, it sends back to the *data requester* the ***SSN2MS_<SSN_Tx_Type>_Res*** XML message with a negative status code as response. ▪ If the ***MS2SSN_<SSN_Tx_Type>_Req*** XML message is not well-formatted (not XML compliant) or not valid (not compliant to corresponding XSD), an SSN_Receipt message is sent synchronously containing the error message generated by the parser.
3	The national SSN system (*data provider*) should log and validate the received ***SSN2MS_<SSN_Tx_Type>_Req*** XML message. ▪ If valid, it searches for the requested detailed information and sends it back to SafeSeaNet in the ***MS2SSN_<SSN_Tx_Type>_Res*** XML message. ▪ If invalid or any problem during the processing of the request, it sends back to SafeSeaNet the ***MS2SSN_<SSN_Tx_Type>_Res*** XML message with a negative status code as response.
4	SafeSeaNet logs and validates the received ***MS2SSN_<SSN_Tx_Type>_Res*** XML messageand sends ***SSN_Receipt*** XML message back as confirmation (synchronous connection). It then prepares and sends back to the *data requester* the ***SSN2MS_<SSN_Tx_Type>_Res*** XML message with the requested detailed information asynchronously.
5	The national SSN system (*data requester*) should log and validate the received ***SSN2MS_<SSN_Tx_Type>_Res*** XML message and process it

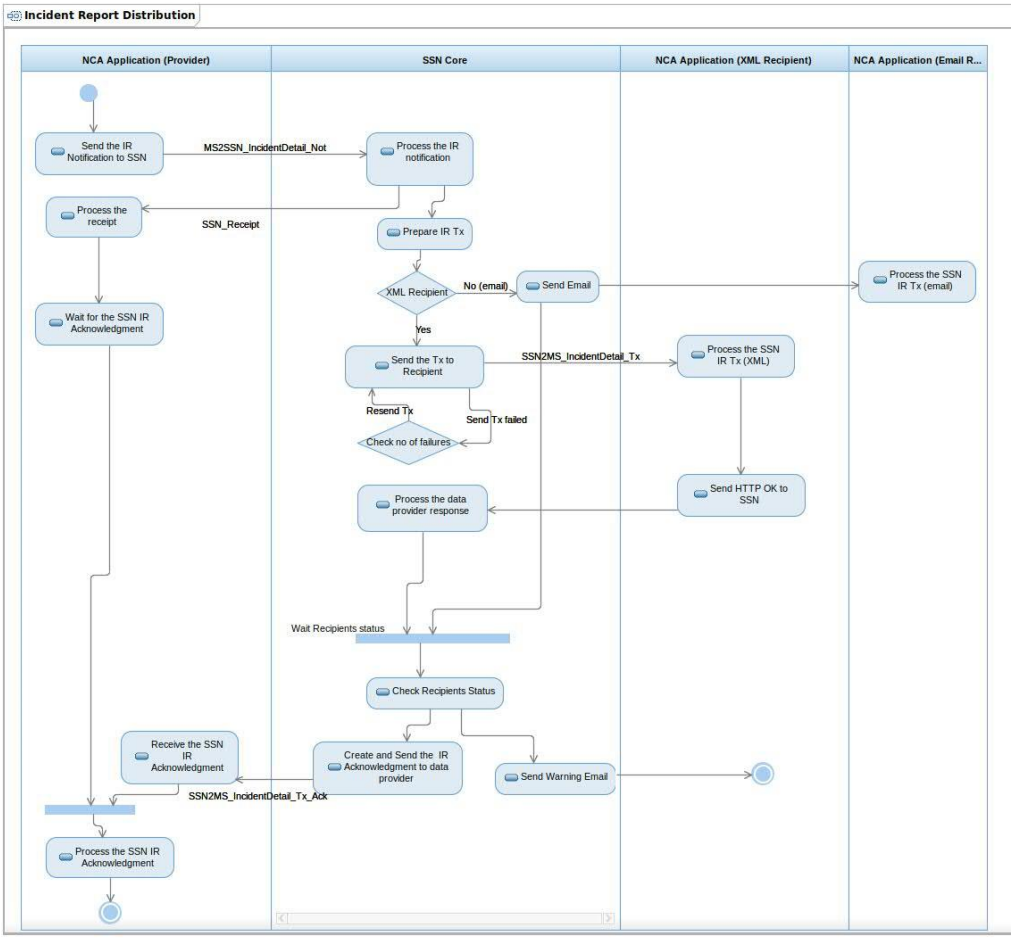
XML messages For more details about the XML messages used by this process, see "Chapter 3 - SafeSeaNet XML Messages" at page 41.

Description of the “Incident Report Distribution” process

Purpose

This process outlines the flow of activities performed when a Member State (acting as *Data Provider*) sends an IncidentDetail notification to SafeSeaNet with an indication that the incident report should be distributed to a list of recipient Member States.

Flow



The process flow illustrates the case of distribution of the Incident Report by XML.

Continued on next page

Description of the "Incident Report Distribution" process, Continued

Description of the flow

Step	Action
1	The national SSN system of the Data Provider prepares the ***MS2SSN_IncidentDetail_Not*** XML notification message and sends it to SafeSeaNet. The notification message includes the indication of the recipient MS which the incident report must be distributed to. The notification contains information regarding a new Incident Report, updates of an existing Incident Report, a feedback on actions performed after reception of an Incident Report, or an update of a feedback.
2	SafeSeaNet logs and validates the notification message. ▪ If valid, SafeSeaNet stores the notification information in its index database, consolidates the information with the relevant information on the same incident report that it already handles, and sends back the ***SSN_Receipt*** XML message with a positive status code as response (synchronous connection). ▪ If invalid or any problem during the processing of the notification, SafeSeaNet sends back the ***SSN_Receipt*** XML message with a negative status code as response (synchronous connection). This puts an end to the process.
3	For each recipient MS: ▪ If the recipient MS has implemented the XML distribution mechanism, SafeSeaNet sends the ***SSN2MS_IncidentDetail_Tx*** XML notification message. ▪ If the recipient MS has not implemented the XML distribution mechanism, SafeSeaNet send an e-mail notification to the 24/7 NCA and to other preselected recipients. The possibility to receive both XML and emails is also envisaged.
4	Each recipient MS which has received the ***SSN2MS_IncidentDetail_Tx*** XML notification message sends back to SafeSeaNet the ***SSN_Receipt*** XML notification message (synchronous connection).

Continued on next page

Description of the "Incident Report Distribution" process, Continued

5	In case of a failure in the distribution of an Incident Report to a recipient MS, SafeSeaNet initiates a failure management process, where it sends a warning e-mail to the 24/7 NCA. The distribution is considered as having failed if: ▪ In the case of XML distribution: o The ***SSN_Receipt*** notification sent by the recipient MS contains a negative status code, o No ***SSN_Receipt*** notification is received from the recipient MS after 3 attempts of distribution of the ***SSN2MS_IncidentDetail_Tx*** notification, ▪ In the case of e-mail distribution: o A non-delivery notification is received from the mail server(s) of the recipient MS, o No acknowledgment message is received from the mail server of the recipient MS after 3 attempts of distribution of the Incident Report by e-mail.
6	SafeSeaNet sends a consolidated ***SSN2MS_IncidentDetail_Tx_Ack*** XML notification message to the Data Provider, indicating the consolidated status of the distribution.

XML messages For more details about the XML messages used by this process, see "Chapter 3 - SafeSeaNet XML Messages" at page 41.

Chapter 3 - SafeSeaNet XML Messages

Section 3.1 - Overview

Introduction

SafeSeaNet aims at exchanging, between Member States, maritime data related to vessels and alerts. Such exchange of information will be ensured through the use of XML messages.

The exchange of data required by the different processes will be performed using XML messages (see the services described in chapter "Chapter 2 - SafeSeaNet Functional Services Overview" on page 19). These different XML messages are gathered into the following so-called SafeSeaNet XML transactions:

- Notifications (used by *data providers* and the central SafeSeaNet system)
  - Send Ship Notification
  - Send PortPlus Notification
  - Send Exemption Notification
  - Send Incident Details Notification

- Information Requests (used by *data requesters*, the central SafeSeaNet system and *data providers*)
  - Get Ship Notification Details
  - Get PortPlus Notification Details
  - Get Incident Report Notification Details
  - Get ExemptionNotification Details

This chapter describes the XML messages exchanged between SafeSeaNet and the Member States to support the SafeSeaNet functional services.

Contents

This chapter contains the following sections:

Section 3.2 - Conventions

Overview

Introduction

The section presents the conventions used for improving the understanding the description of the XML messages.

Contents

This section contains the following topics:

Conventions used in this chapter

Introduction

The tables used to describe the XML messages provide the following information:

- Item
- Occ (Occurrence)
- Type
- Len
- Description

This information is described in the next information blocks of this topic.

Item

It indicates the item name.

- An ***XML element*** is indicated in bold & italic.
- An attribute is indicated by a normal appearance.

Occ

The column indicates the occurrence of the element or attribute

The value	indicates
1	a mandatory item
1-n	a mandatory item. The item may also appear more than once
1-∞	a mandatory item. The item may also appear more than once without any amount limit
0-1	an optional item but if present, the item must be unique
0-n	an optional item. When present, it may appear more than once
0-∞	an optional item. When present, it may appear more than once without any amount limit

Type

This column indicates the data type of the attribute.

The type	indicates
Text	A sequence of characters (string).
DT	Date and Time in UTC format (Coordinated Universal Time) - ISO 8601 Format “YYYY-MM-DDThh:mm:ssTZD” where TZD = time zone designator (Z or +hh:mm or -hh:mm)
Date	Date as ‘*YYYY-MM-DD*’
Decimal	Represents a subset of real numbers, which can be represented by decimal numerals. The maximum number of decimal digits may be specified between brackets in the column “Len”.
ENUM	Enumeration giving the list of possible values. The possible values will be listed in **bold**.
Int	Integer value between -2147483648 and 2147483647.Use of dots and commas is prohibited
Uri	Uniform Resource Identifier reference.
Base64	Indicates the attribute contains base64-encoded value.

Continued on next page

Conventions used in this chapter, Continued

Len	This column indicates the length of the attribute. ▪ ‘n’ indicates a fixed length where ‘n’ the number of characters ▪ ‘m-n’ indicates a variable length where “m” is the minimum and “n” is the maximum
Description	This column describes the items and the possible values of the attribute.

Conventions for naming the XML messages

Root element

The root element of each XML message gives the name of the message and must then be used to identify whether the message is a notification, an information request or a response to an information request, and the type of the notification or information request (PortPlus, ship, …).

Naming convention

The name of the message is always built as follows (except for the special *SSN_Receipt* XML message):

<Direction>_<SSN_Tx_Type>_<MsgType>

Name part	Possible values	Description
<Direction>	MS2SSN	Message sent by a national SSN system to the central SafeSeaNet system.
	SSN2MS	Message sent by the central SSN system to a national SSN system.
<SSN_Tx_Type>	Ship	Ship Notification, Request and response messages
	PortPlus	PortPlus Notification
	ShipCall	Request and response messages for retrieving information notified through PortPlus
	Exemption	Notification of information on exemptions
	IncidentDetail	IncidentDetail Notification, Distribution and Consolidated receipt messages
	IncidentReport	IncidentReport Request and Response messages
	Not	The message consists of a notification
<MsgType>	Req	The message consists of a request for notification details
	Res	The message consists of a response to a request for notification details
	Tx	The message consists of a distribution of an IncidentDetail message
	Tx_Ack	The message consists of the consolidated distribution receipts of an IncidentDetail message

Member States acting as *Data requesters* should send or receive (process) the following XML messages (only if they do not want to use the SSN browser-based web interface but implement their own interface):

- MS2SSN_<SSN_Tx_Type>_Req (send request to SSN)
- SSN_Receipt (receive the receipt upon sending the MS2SSN_<SSN_Tx_Type>_Req)
- SSN2MS_<SSN_Tx_Type>_Res (receive response from SSN)

Member States acting as *Data providers* should receive (process) or send the following XML messages:

- MS2SSN_<SSN_Tx_Type>_Not (send notification to SSN)
- SSN_Receipt (receive the receipt upon sending the MS2SSN_<SSN_Tx_Type>_Not)
- SSN2MS_<SSN_Tx_Type>_Req (receive request from SSN)
- MS2SSN_<SSN_Tx_Type>_Res (send response to SSN)

Additional to the aforementioned messages, Member States that implement the IncidentDetail distribution should receive (process) or send the following XML messages:

- SSN2MS_<SSN_Tx_Type>_Tx (receivedistributed IncidentDetail from SSN)
- SSN_Receipt (send receipt to SSN following reception of SSN2MS_<SSN_Tx_Type>_Tx)
- SSN2MS_<SSN_Tx_Type>_Tx_Ack (receive consolidated receipt from SSN)

XML Structure and Schema Definition (XSD)

General structure of the XML Messages

The general structure of every XML message is the following:
<*root element* xmlns="urn:eu.emsa.ssn">
<Header .../>
<Body>...</Body>
</*root element*>

Element or node	Description
Root element	Gives the name of the XML message (see Naming convention above for more details)
Header	There is always a *Header* node giving "non business" information about the current SafeSeaNet transaction (such as reference id for correlation, sending and expiration DateTimeUTC, global status code and status message…).
Body	There is always a *Body* node giving the "business" information of the current SafeSeaNet transaction. Such "business" information consists of one or more node element(s) containing different attributes. Exceptions: the *Body* node is omitted in case of 1. The *SSN_Receipt* XML message. 2. When a XML response must be sent corresponding to a request which format was invalid.

XSD of the XML messages

The XML Schema Definition (XSD) of all the XML messages will be supplied separately in an electronic format. The official namespace of the SafeSeaNet XSD specifications is "*urn:eu.emsa.ssn*" and must be specified as *xmlns* attribute value of the root element of every XML message.

XSD (XML Schema Definition), a Recommendation of the World Wide Web Consortium (W3C), specifies how to formally describe the elements in an Extensible Markup Language (XML) document.

***From* and *To* attributes**

The *From* and *To* attributes of the *Header* element node of every XML message is used to identify the sender and the recipient of the message. SafeSeaNet will use the following convention as internal identification of the SafeSeaNet stakeholders:

- The central SafeSeaNet system will be identified under the name '**SSN'**.
- Every SafeSeaNet entity (Coastal station, port, PSC, NCA) using the XML message-based interface will be assigned one or more user identifications. The role played by the entity along with its access rights in SafeSeaNet will be centrally managed by the SSN Administrator or the NCA Administrator. The user identifications do not have to reflect the location code and are definitely not the location code of the entity itself to which the user reports. The user id could however reflect the location code but that depends entirely on the entity creating and assigning the user ids.
- Each SSN user has an account which is mainly described by the UserId and the password. Each SSN user has a role, one that could be shared by others. Each SSN user is known by its location (and location code), one that could be shared by others.

XML Structure and Schema Definition (XSD), Continued

***TestId* attribute**	The *TestId* attribute of the *Header* element is only useful for testing purposes in order to identify a particular test case (see Test Plan for more details). It must be ignored otherwise.
Versioning	The official version of the XML specifications will be specified through the *Version* attribute of the *Header* element of any XML message. The version number ('n.m') will be defined as fixed value in every release of the XML Schema Definition file (.xsd). The current version number is '2.0'. SafeSeaNet (and the Member States) will only support the latest version of the XML specifications. That means that, prior to using a new version of the XML specifications, all Member States must agree upon a date when everyone will switch from the previous version to the new version of the XML specifications.
***TimeoutValue* attribute**	The *TimeoutValue* attribute of the *Header* element node of every XML request message should be used to specify a timeout value (in seconds) indicating when the request should be considered as expired and no longer be processed (*Timeout* status code) if its corresponding XML response has not yet been sent back. The recommended timeout value is between 45 and 60 seconds. Anyway, these timeout value recommendations will be determined more accurately during the SafeSeaNet testing and pilot phase.
SafeSeaNet speaks English	All the information (vessel, alert, DG, …) transmitted as attributes values of the XML messages must be in English.

Validation of the XML messages

Validation principle

When receiving an XML message, the SafeSeaNet central system and the national SSN systems must check whether it is a "Well Formed" XML document (i.e. a document that conforms to the XML syntax rules) and must validate it against its XML Schema definition (XSD).

If an error is detected, an '*InvalidFormat*' status code (in the *StatusCode* attribute of the *Header* element node) must be returned within the XML message that should normally follow in the flow of the transaction.

The *StatusMessage* attribute of the *Header* element node can also be used to communicate more information about the error (see example below).

Invalid Notification, Request or Response

Whenever an XML Notification (MS2SSN_<SSN_Tx_Type>__Not) or XML request (<Direction>_<SSN_Tx_Type>_Req) or XML response (<Direction>_<SSN_Tx_Type>_Res) validation failed, a *SSN_Receipt* XML message must be sent back to the caller

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN_Receipt xmlns="urn:eu.emsa.ssn">
    <Header Version="3.0" SentAt="2015-09-13T23:59:54Z" From="SafeSeaNet" To="N/A" MSRefId="
StatusCode="InvalidLocation" StatusMessage="Invalid location."/>
</SSN_Receipt>
```

Invalid XML message

Sometimes an *SSN_Receipt* XML message doesn't fully respect the XML schema. This could occur in case of messages that cannot be parsed against the ssn.xsd schema:

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN_Receipt xmlns="urn:eu.emsa.ssn">
    <Header Version="3.0" SentAt="2015-09-13T23:59:54Z" From="SafeSeaNet" To="N/A" MSRefId="
StatusCode="InvalidFormat" StatusMessage="The message doesn't comply to the XML specification.'
</SSN_Receipt>
```

ID Correlation between the XML messages in a transaction

Header Attributes

Knowing that the many exchanges of XML messages between the national SSN systems and SafeSeaNet are asynchronous, two special attributes have been defined in the *Header* element node of the XML messages to allow the correlation between Request and Response.

- *SSNRefId* given by the SafeSeaNet central system
- *MSRefId* given by the national SSN systems

Both attributes are not always present in every message

SSNRefId

It consists of a Universal Unique Identifier (uuid) generated by the central SafeSeaNet system for identifying a transaction initiated by an incoming *MS2SSN_<SSN_Tx_Type>_Req* XML message).

It is internally used by the central SafeSeaNet system for correlating to the transaction when XML responses are received later on from the national SSN systems.

This uuid is specified by SafeSeaNet in the *SSNRefId* attribute of every XML message dealing with the current transaction it sent to the national SSN systems.

The national SSN systems must send back this uuid in the *SSNRefId* attribute of every XML message dealing with the current transaction they send to the central SafeSeaNet system

MSRefId

It consists of a unique identifier (which format is free to choose provided it's XML compliant) generated by a national SSN system for identifying a transaction.

It is inserted in the *MSRefId* attribute of the *Header* element node of the initial *MS2SSN_<SSN_Tx_Type>_Req* XML message.

It is used internally by the national SSN system for correlating to the transaction when the final XML response is received later on from the central SafeSeaNet system.

This transaction identifier is specified by a national SSN system in the *MSRefId* attribute of every XML message dealing with the current transaction it sent to the central SafeSeaNet application.

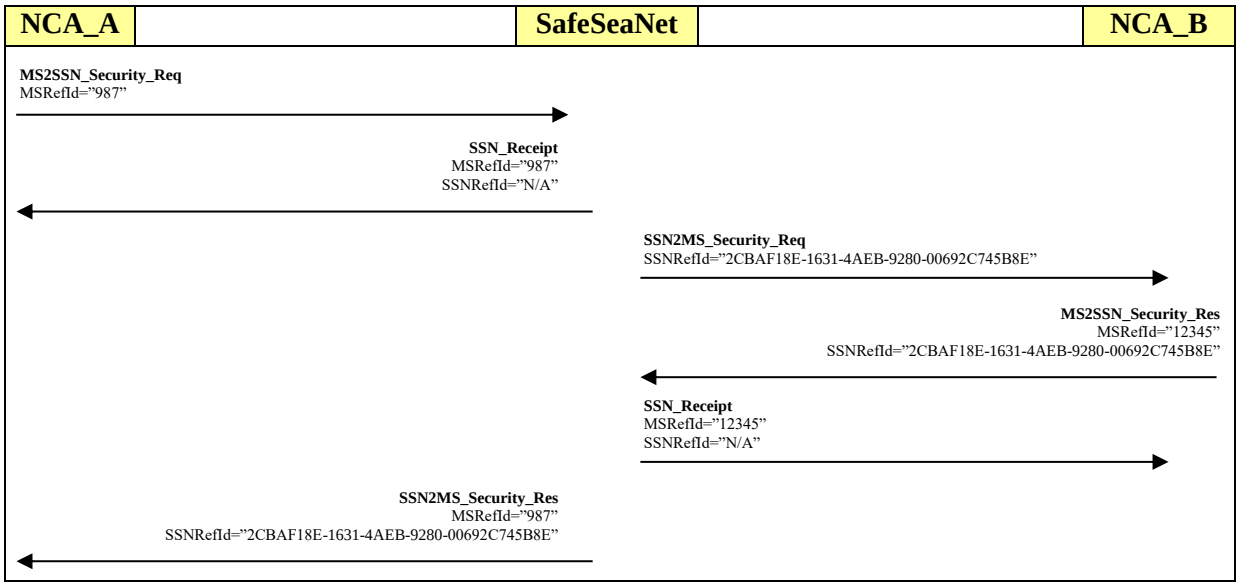
The central SafeSeaNet system must send back this national SSN system's transaction identifier in the *MSRefId* attribute of every XML message dealing with the current transaction they send to the national SSN systems.

Continued on next page

ID Correlation between the XML messages in a transaction, Continued

Example

The following example aims at explaining how the *SSNRefId* and *MSRefId* attributes should be used within a SafeSeaNet transaction (e.g. Security Notification Details request):



Location codes

Introduction

Port of departure and port of destination in some notification messages are also defined using location codes.

This map gives some explanations about the format of a location code.

Format of a location code

A location code is a standard way for representing locations in transportation sectors (rail, maritime, …). The list of location codes is managed by the UNECE (http://www.unece.org/cefact/locode/service/main.htm). It consists of a 2 alpha-letter country code (according to ISO 3166) followed by a three characters city code that may include digits from 2 to 9.

Exhaustive list of European maritime location codes

The Member States should provide their list of maritime authorities that will deal with SafeSeaNet and associated roles (see p.55 for more details) as well as their list of location codes (and geographical coordinates in terms of latitude and longitude). The list of all gathered location codes will be the official list supported by SafeSeaNet.

In addition, there is a list of "way points" for ships leaving port where the next port of call is defined only in regional terms (LOCODEs Guidelines, Annex 1, page 14)

Example of location codes

The following table gives some examples of location codes involved in SafeSeaNet:

Location Code	Description
BEANR	Antwerpen (Belgium)
BEZEE	Zeebrugge (Belgium)
FRDKK	Dunkerque (France)
FRLEH	Le Havre (France)
LVRIX	Riga (Latvia)
NLAMS	Amsterdam (Netherlands)
NLRTM	Rotterdam (Netherlands)
PTLIS	Lisboa (Portugal)

Vessel Identification

Introduction

The vessel identification element node contains five attributes:

- IMONumber
- MMSINumber
- CallSign
- ShipName
- Flag (only in the PortPlus)

This section gives some explanations about the format of the vessel identification attributes. The detailed definition of the attributes is included in the Annex A of this document.

IMO Number format

A 7-digit unique code. The IMO ship identification number is a permanent number assigned to each qualifying ship for identification purposes (reference www.imo.org).

MMSI Number format

A Maritime Mobile Service Identity (MMSI) is a series of nine digits:

- Pos 1->3: Maritime identification digits (MID) always starting with a digit from 2 to 7. One or more MID have been allocated to each country and can be used to determine the flagstate when displaying. Reference:www.itu.int, MARS database.
- Pos 4->9: Maritime mobile number, is a free numeric field.

Call Sign format

A unique designation for a transmitting station up to 7 characters long. The structure is defined by the International Telecommunication Union(ITU).

Ship Name format

No specific structure. Up to 35 characters long. Structure: [a..z][A..Z][0..9]Additional characters allowed are dots ".", dashes "-" and single apostrophe " ' ".

Flag

The Alpha-2 code (two-digits flag code) in accordance with the standard ISO 3166-1.

Example of vessels

The following table gives some examples of vessels involved in SafeSeaNet:

IMO Number	MMSI Number	Call Sign	Ship Name	Flag
7203637	249678000	9HAM5	IONIS	MT
7400833	636005943	ELPV	STOLT INTEGRITY	LI
9000247	257769000	LANC4	TRANS SCANDIC	NO
9200330	477675000	VRVY8	FEDERAL OSHIMA	HK
9007453	308851000	C6LA2	'SVANEN	PA

Continued next page

Vessel Identification, continued

Test vessels

The following table gives the details of the two (2) vessels defined in SSN for testing purposes only. The vessel with IMO Number = “9999999” is for use by the Member States while the vessel with IMO Number = “0000000” is for use by EMSA.

It is important to note that the two test vessels do not undergo the vessel definition validity checks and their details can not be updated.

IMO Number	MMSI Number	Call Sign	Ship Name	Flag
0000000	000000000	TEST	TEST SHIP SAFESEANET	--
9999999	999999999	SSNTEST	TEST SHIP SAFESEANET for MS	--

SafeSeaNet Roles

Introduction

Every SafeSeaNet user identification is assigned a role in SafeSeaNet. This map aims at describing the roles supported in SafeSeaNet.

List of supported roles

Roles will be centrally managed by SSN in order to assign the corresponding access rights. The following table lists a non-restrictive set of roles supported by SafeSeaNet:

Role Code	Description
POR	Used to identify a Port Authority
CST	Used to identify a Coastal Station
PSC	Used to identify a Port State Control
NCA	Used to identify a National Competent Authority
OTH	Used to identify a maritime entity that's not yet covered by the above roles
SSN	Used to identify a SSN Administrator
SEC	Used to identify a competent authority for maritime security, as defined in Art. 2.7 of Regulation (EC) No 725/2004
WAS	Used to identify an authority or body performing functions under Directive 2000/59/EC (on port reception facilities for ship-generated waste and cargo residues) as mentioned in Article 12.b
SW	Used to identify a competent authority or body designated by a Member State to implement the provisions of Directive 2010/65/EU, in particular, with the responsibility for overseeing the setting up and operation of the Single Windows as envisaged for the purposes of the latter directive

Base64 Encoding and Decoding

Introduction

As explained earlier (see "Data Provider capabilities" at page 23), detailed information about a notification could be provided by the *data provider* as a document (pdf, doc,… format) on a local (national) web server. In such a case, when a *data requester* asks SafeSeaNet for getting the notification details, SafeSeaNet will download the document from the web server and send it back, Base64-encoded, along with the document type in the corresponding XML response to the *data requester*. The *data requester* has just to decode the Base64 string of characters to be able to view it in its original format.

The maximum size of the document must be 10 Mb.

What is Base64?

The Base64 encoding, specified in RFC 2045 - MIME (Multipurpose Internet Mail Extensions), is designed to represent arbitrary sequences of octets in a form that need not be humanly readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be represented per printable character.

The encoding and decoding algorithms are simple (and already supplied as method calls in Java and .NET environments). The encoded data are consistently only about 33 percent larger than the unencoded data.

Example of a Base64 value

The following lines gives an example of an Hazmat details base64-encoded in the XML response (*Base64Content* attribute) sent back by SafeSeaNet to the *data requester*:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Hazmat_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="5851917322644400" MSRefId="REQ-Test-0123XY" Version="2.0"
      To="NCATEST1" SentAt="2008-02-24T11:15:16Z" From="SSN" />
  - <Body>
      <SearchCriteria MMSINumber="246361000" IMONumber="9315006" />
    - <NotificationDetails SentAt="2008-02-20T04:47:55" From="ncaplgdy1">
        <VesselIdentification ShipName="OOCL ST.PETERSBURG" CallSign="PHCZ" IMONumber="9315006" />
        <VoyageInformation ETD="2008-02-21T05:00:00Z" TotalPersonsOnBoard="10"
          NextPortOfCall="PLNOW" ETA="2008-02-20T05:00:00Z" />
        <Base64Details DocType="XML"
          Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iQDQo=" />
      </NotificationDetails>
    </Body>
  </SSN2MS_Hazmat_Res>
```

URL Masking

Introduction

An alternative to Base64 approach for providing downloadable documents is introduced in the SSN2MS_ShipCall_Res message (refer to page152). In case of a request, the system provides a URL to the *data requestor*. This URL would point to the *data provider* server where the document is actually stored, the *data requestor* would use it to download the document directly from the *data provider's* server.

However, the configuration of the *data provider* or the *data requestor* system (or both) may prevent the direct communication between the SSN national systems (e.g. due to the implementation of IP filtering in one or both systems)

To enable serving the request under any circumstances, the SSN system uses a re-direction mechanism based on the "masking" of the URL provided by the *data provider* with an SSN central system URL.

The method is compatible with document download via S-TESTA or Internet.

SSN does not store/cache the documents. Upon receipt, by SSN, of the request from the *data requestor*, SSN will download the document from the *data provider* and provide it to the *data requestor*.

The maximum size of the document that can be downloaded using the URL masking mechanism is 10 Mb.

Technical approach for URL masking

The SSN central system creates the SSN2MS_ShipCall_Res message with UrlDetails > Url attributes set to the new SSN Urls respectively.

The new Urls contain the SSN domain (different in case of internet or S-TESTA), the MsRefId value of the corresponding SSN2MS_ShipCall_Res message plus an indicator of the type of details being HazmatNotification (1) or CargoManifest (2). The Url (in the case of internet, differs in the case of S-TESTA) will be in the form: https://safeseanet.emsa.eu:448/ssn-xmlprotocol-web/ssndocuments.do?&msRefId=123441

The following status Codes are used in case of document unavailability:

- HTTP StatusCode = 202; //SC_NO_CONTENT;
    - response.setHeader("SsnStatus", "NotAvailable"): the document is not available;
    - response.setHeader("SsnStatus", "NotFound"): the msRefId does not exist;
    - response.setHeader("SsnStatus", "AccessDenied"): the data requestor is not allowed to retrieve the document.

Section 3.3 - SSN_Receipt XML message

Overview

Introduction

The goals of the **SSN_Receipt.xml** message receipt are the following:

- It must be sent by SafeSeaNet as the confirmation message (indicating whether the notification message is compliant to the corresponding XSD and has been successfully validated and processed, or not) to every notification message (MS2SSN_*<SSN_Tx_Type>*_Not) received from the Member States.
- It must be sent by SafeSeaNet as the confirmation message (indicating whether the request message is compliant to the corresponding XSD, or not) to every request message (MS2SSN_<SSN_Tx_Type>_Req) received from the Member States.
- It must be sent by SafeSeaNet as the confirmation message (indicating whether the response message is compliant to the corresponding XSD, or not) to every response message received by SafeSeaNet (MS2SSN_<SSN_Tx_Type>_Res).
- It must be sent by the Member State as the confirmation message (indicating whether the Incident Report distributed message is compliant to the corresponding XSD, or not) as an acknowledgemnt of receipt to every IncidentDetail message (SSN2MS_IncidentDetail_Tx).
- In the case that any of the aforementioned messages is compliant to the corresponding XSD or the notification message has been successfully validated and processed, the SSN_Receipt message Status Code will be set to 'OK'.
- In the case that any of the aforementioned messages is not compliant to the corresponding XSD or the notification is invalid, the SSN_Receipt message Status Code will be set to 'InvalidFormat'.

Status Codes and Status Messages

Introduction

Every SafeSeaNet XML response/receipt message (*MS2SSN_<SSN_Tx_Type>_Res*, *SSN2MS_<SSN_Tx_Type>_Res*, and *SSN_Receipt* XML messages) includes attributes for setting the status code and the status message. These status code and status message are used to give the result of the processing of a SafeSeaNet XML request/notification message (*MS2SSN_<SSN_Tx_Type>_Not*, *MS2SSN_<SSN_Tx_Type>_Req* and *SSN2MS_<SSN_Tx_Type>_Req* XML messages). These are outlined below.

Status Code

A status code is defined in every SafeSeaNet XML response/receipt message. It is defined as the *StatusCode* attribute of the *Header* element with the following enumerated set of values:

Attribute value	Description
InvalidFormat	The corresponding XML request/notification/response message was not valid (see p.49 for more details)
Timeout	The corresponding XML request/notification message has not been processed within time (according to the *TimeoutValue* attribute). This value may only be used by SSN-EIS in an XML response message.

Attribute value	Description
ServerError	The corresponding XML request/notification message has not been successfully processed due to a server problem (e.g. connection problem, database problem, application problem, …).
OK	The notification has been successfully processed or the request message has been successfully received or the notification details requested in the corresponding XML request message has been found (response messages). When an update on a PortPlus notification is sent without the initial PortPlus with UpdateStatus="N" for the same ShipCallId, a warning is appended in the *StatusMessage: "Warning: The original PortPlus notification must be send*". When a notification has been sent for a banned vessel a warning is appended in the *StatusMessage:"Warning: The vessel is currently banned from Community ports and anchorages pursuant to Art.16 or Art. 21.4 of Directive 2009/16/EC of 23 April 2009 on port State control. If you need further information please contact your National Competent Authority".* When a notification has been sent for a single hull tanker a warning is appended in the *StatusMessage:"Warning: The reported vessel is Single Hull Tanker*". When a notification has been sent and the ship identification does not match with the information in the SSN list of ships a warning is appended in the *StatusMessage: "Warning: the vessel identification elements in SSN Ship Database are IMONumber:[], MMSINumber:[], CallSign, ShipName:".* When a notification has been sent and the ship identification MID digits included in the MMSI do not match with the information reported in the flag attribute a warning is appended in the *StatusMessage:"Warning: The MID digits included in the reported MMSI refer to a different country from the one reported with the flag attribute".* When a notification has been sent and the reported LoCode although technically correct is not registered in UNECE a warning is appended in the *StatusMessage:"Warning: The location code [XXYYY] is not registered in UNECE".* When a notification has been sent with ATA or ATD in the future (ATA or ATD > SentAt + 3h), a warning is appended in the StatusMessage: "*Warning: ATA or ATD > SentAt + 3h. The notification will not be considered by THETIS*".

Attribute value	Description
	When a notification has been sent where the Locode of Port of Call does not exist in THETIS, a warning message is appended in the StatusMessage: "*Warning: Locode of Port of Call is unknown to THETIS. The notification will not be considered by THETIS*". When a Ship MRS notification has been sent where the CST identification for does not exist in list of codes in SafeSeaNet, a warning message is appended in the StatusMessage: *"WARNING: the Coastal Station (attribute CSTIdentification) is unknown to the system"*
NotFound	The notification details requested in the corresponding XML request message does not exist. This value may only be used by SSN-EIS in an XML response message. *Attribute value not available for MS2SSN_messages*
NotAvailable	The data provider system is temporarily unavailable (e.g. due to planned and announced maintenance). *Attribute value not available for MS2SSN_messages*
AccessDenied	The user (identified via the *From* attribute of the *Header* element) is not allowed to send the corresponding XML request/notification or doesn't exist.
Deleted	The notification details requested in the corresponding XML message have been deleted.

Status Message

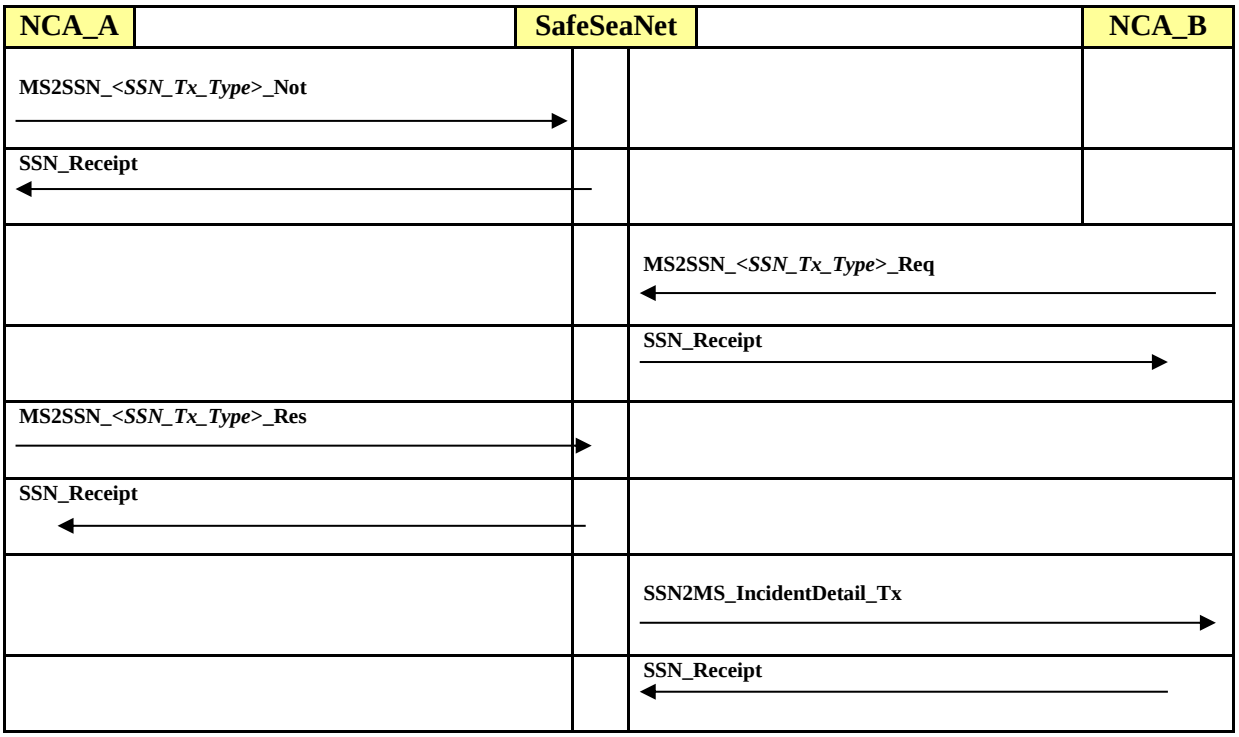
Next to the *StatusCode* attribute, there's always a corresponding *StatusMessage* attribute that might be used to specify an optional message giving more detailed information about the status code value.

As that status message (free text) could be useful for debugging purpose, it is recommended to insert message in English.

Please refer to the description of the XML messages for more details.

When to send this message?

The following figure illustrates the cases when this message must be sent:



Continued on next page

Message description

The following table describes the XML message used for the transaction.

Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1

Business Rules

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

Item	Occ	Description
Header	**1**	**Header Node**
Version	1	none
TestId	0-1	none
MSRefId	1	The MSRefId must be unique
SSNRefId	1	The SSNRefId must be unique
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm)
From	1	none
To	1	none
StatusCode	1	none
StatusMessage	0-1	none

Continued on next page

Example of receipt confirming a successful PortPlus notification

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN_Receipt xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-01-26T11:03:39Z" From="SafeSeaNet"
        To="GRPIR01" MSRefId="MS2SSN_PP_S1_01a01aad" SSNRefId="2263022"
        StatusCode="OK" StatusMessage="The message processed successfully." />
</SSN_Receipt>
```

Example of receipt with *InvalidFormat* error

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN_Receipt xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-01-22T12:51:45Z" From="SafeSeaNet"
        To="GRPIR01" MSRefId="MS2SSN_S1603_2a" SSNRefId="2261585" StatusCode="InvalidFormat"
        StatusMessage="The message identified by MSRefId [MS2SSN_S1603_2a] has already been registered in SSN (sent by [GRPIR01])" />
</SSN_Receipt>
```

Invalid notification, request or response

Sometimes the Notification, Request or ResponseXML message doesn't fully respect the XML schema.

```
<SSN_Receipt xmlns="urn:eu.emsa.ssn">
    <Header From="SafeSeaNet" MSRefId="N/A" SSNRefId="2270885"
        SentAt="2018-02-09T15:25:37Z" StatusCode="InvalidFormat"
        StatusMessage="
Exception Description: An error occurred unmarshalling the document Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4;
columnNumber: 31; cvc-complex-type.4: Attribute 'UpdateStatus' must appear on element 'ssn:NotificationStatus'."
        To="NotAvailable" Version="4.0" />
</SSN_Receipt>
```

Section 3.4 - Send Notifications

Overview

Introduction

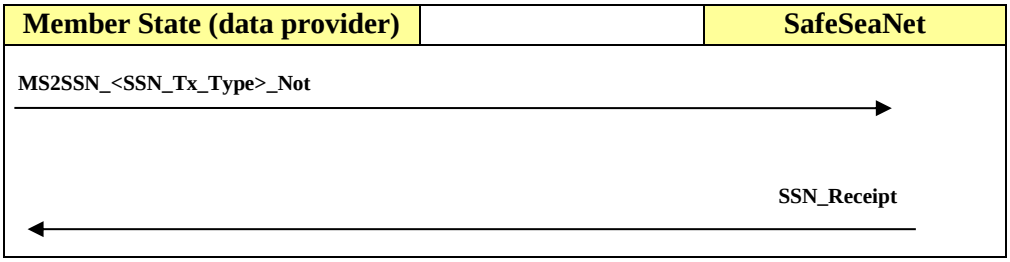
This section describes the different XML messages that must be used by a Member State (acting as *Data Provider*) to notify SafeSeaNet that the Member State holds some kind of information. Such XML messages include theNotifications of type:

- Ship
- PortPlus
- Exemption

Introduced in XML RG v2.08 a Member State (acting as *Data Provider*) may use, on a voluntary basis, the new type of IncidentDetails message to notify SafeSeaNet that in turn will distribute to the recipient Member States information about a specific incident type. The new IncidentDetails message shall be used as an alternative to the Alert notifications. The flow of the IncidentDetails XML messages is described in the section Send IncidentDetail Notifications.

General flow of the XML messages

The following figure outlines the expected **synchronous** flow of XML messages related to every SafeSeaNet XML notification. A ***SSN_Receipt*** XML message (see p.57) will always be returned as response to a notification.



The different types of notifications (<*SSN_Tx_Type*>) are:

- Ship
- PortPlus
- Exemption

Continued on next page

Contents This section contains the following topics:

MS2SSN_Ship_Not.xml message

Introduction

The **MS2SSN_Ship_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet about a vessel's voyage and cargo information. The ship notification can be originally captured via a MRS or AIS signal.

Notification details

Please refer to "Get Ship Notification Details" at page 127 for more details about how to request / provide the detailed information about this notification

Message description

The following table describes the XML message used for the transaction.

Continued on next page

MS2SSN_Ship_Not.xml message, Continued

MS2SSN_Ship_Not - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	From	1
	To	1
Body		1
AISNotification		***0-1***
VesselIdentification		**1**
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
VoyageInformation		***1***
	NextPortOfCall	1
	ETA	0-1
ShipPosition		***1***
	Longitude	1
	Latitude	1
	Timestamp	1
MRSNotification		0-1
MRSInformation		1
	MRSIdentification	1
	CSTIdentification	0-1
VesselIdentification		***1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
VoyageInformation		***1***
	NextPortOfCall	1
	ETA	0-1
	TotalPersonsOnBoard	1
	AnyDG	1
ShipPosition		***1***
	Longitude	1
	Latitude	1
	ReportingDateAndTime	1

Business Rules

The following rules apply to the Ship Notification message:

No.	General rules applicable to the MS2SSN_Ship_Not.xml message
1	The data provider is allowed to send notification only for a MRS under its responsibility (e.g. a MS not managing WETREP shall be prevented from sending such a notification) unless there is a specific agreement between the countries involved.See Table 1for the access right policy. Lists of "MRS", "CST" and "Report type" are maintained by EMSA.
2	Details for both MRS and AIS notification can be provided only via XML.

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Ship_Not - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	
To	1	
Body	**1**	
AISNotification	**0-1**	***AISNotification* element node. Not allowed if *MRSNotification* specified**
…		▪
MRSNotification	**0-1**	***MRSNotification* element node. Not allowed if *AISNotification* specified**
…		▪

***AISNotification* element**

The following table describes the *AISNotification* element that must be used when the notification is of type AIS. The details of the AIS notification can only be provided as an XML message (see "MS2SSN_Ship_Res.xml message" at page 133) and not as a document on a web server.

MS2SSN_Ship_Not - Item	Occ	Description
AISNotification	**0-1**	**Not allowed if *MRSNotification* specified**
VesselIdentification	**1**	No checking rules to be applied in the AIS notification to keep the original information and no reject messages.
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	
ShipName	0-1	

MS2SSN_Ship_Not - Item	Occ	Description
VoyageInformation	**1**	
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown. Considering the actual situation with the vast majority of the AIS messages include the actual name and not the LoCode described in many different ways, the SSN Group decided not to reject notifications containing more than 5 characters in this attribute. Member States requesting through the web will receive the original content of the attribute. Member States when requesting through the XML these messages will receive ZZUKN.
ETA	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the estimated time of arrival at next port of call. The national SSN systemshould convert the AIS date format (MMDDHHMM) into the ISO format. As an example it could be done the following way: – SS should be 00 – YYYY should be the year the message was sent provided the day/month are greater than the day/month of the timestamp. Otherwise it will be YYYY+1. – Default values are month MM = 0 day DD = 0, hour HH = 24, minutes MM = 60 are not compatible with ISO standards Proposal: – If MM or DD has default value, ETA shouldn't be provided If HH or MM has default value, for the ETA the following dummy has to be employed: 23:59:59.
ShipPosition	**1**	
Longitude	1	
Latitude	1	
Timestamp	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the ship position reporting.

***MRSNotification* element**

The following table describes the *MRSNotification* element that must be used when the notification is of type MRS. The details of the MRS notification can only be provided as an XML message (see "MS2SSN_Ship_Res.xml message" at page 133) and not as a document on a web server.

MS2SSN_Ship_Not - Item	Occ	Description
MRSNotification	**0-1**	**Not allowed if *AISNotification* specified**
MRSInformation	**1**	
MRSIdentification	1	The Central SSN will validate the content of the string. The message will be accepted only if the text string value complies with the list of codes for MRSIdentification.
CSTIdentification	0-1	The Central SSN will validate the content of the string. The message will be accepted by SSN even in case the text string value does not comply with the list of codes for CSTIdentification. In such a case a warning message is appended in the StatusMessage in the SSN_Receipt.xml.
VesselIdentification	**1**	The message identifier attributes (IMO number, MMSI, Call Sign, ship name) have to be checked against a reference ship database.
IMONumber	0-1	Mandatory if *MMSINumber* not given. Has to be checked if not existing in the reference database.

MS2SSN_Ship_Not - Item	Occ	Description
MMSINumber	0-1	Mandatory if *IMONumber* not given.. Has to be checked if not existing in the reference database.
CallSign	0-1	
ShipName	0-1	
VoyageInformation	**1**	
NextPortOfCall	1	Location code of next port of call. The MRS message has to comply with the UN LoCode list or with the agreed list of waypoints (described in the LOCODEs Guidelines, Annex 1).
ETA	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the estimated time of arrival at next port of call. Only optional if vessel's destination (NextPortOfCall) is a waypoint, but mandatory for destinations inside EU waters.
TotalPersonsOnBoard	1	99999 if actually unknown.
AnyDG	1	It is referred to any dangerous / polluting goods on board the ship. Possible values: "Y" or "N"
ShipPosition	**1**	
Longitude	1	This corresponds to the given position at the time of reporting.
Latitude	1	This corresponds to the given position at the time of reporting.
ReportingDateAndTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and Time of MRS reporting. This corresponds to the MRS position time of reporting.

Table 1- Access rights for MRS data providers as per MSC circulars (*)

ID	MRS	Member States entitled to provide MRS information
1	ADRIREP	Croatia, Italy, Slovenia
2	BELTREP	Denmark
3	BONIFREP	France, Italy
4	CALDOVREP	France, UK
5	CANREP	Spain
6	COPREP	Portugal
7	FINREP	Spain
8	GDANREP	Poland
9	GIBREP	Spain
10	GOFREP	Estonia, Finland
11	GREENPOS	Greenland (so far out of scope of SSN reporting)
12	MANCHREP	France
13	OUESSREP	France
14	SOUNDREP	Denmark, Sweden
15	TRANSREP	Iceland
16	WETREP	Belgium, France, Ireland, Portugal, Spain, UK
17	BAREP	Norway

(*) This table can be revised in light of a specific agreement between tye countries involved in a MRS.

Example of an AIS ship notification

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
    <Header From="thanosId" MSRefId="MS2SSN_Ship_Not_20171_3"
        SentAt="2017-12-28T09:54:24" To="SafeSeaNet" Version="4.0" />
    <Body>
        <AISNotification>
            <VesselIdentification IMONumber="9134256"
                MMSINumber="564621000" ShipName="EVER DELUXE" />
            <VoyageInformation ETA="2018-01-01T09:54:24"
                NextPortOfCall="GRLAV">
                <ShipPosition Latitude="20135500" Longitude="-39432000"
                    Timestamp="2016-01-15T10:00:24Z" />
            </VoyageInformation>
        </AISNotification>
    </Body>
</MS2SSN_Ship_Not>
```

Note that the AIS notification details can be requested by SSN to the data provider only via the *SSN2MS_Ship_Req.xml* message.

Examples of an MRS ship notification

The following example illustrates a MRS notification which details can be requested by SSN to the data provider via the *SSN2MS_Ship_Req.xml* message:

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
    <Header From="thanosId" MSRefId="MS2SSN_Ship_Not_20171228_5"
        SentAt="2017-12-28T09:54:24" To="SafeSeaNet" Version="4.0" />
    <Body>
        <MRSNotification>
            <MRSInformation CSTIdentification="IT_TriesteMRSC"
                MRSIdentification="ADRIREP" />
            <VesselIdentification CallSign="9V7953"
                IMONumber="9134256" MMSINumber="564621000" ShipName="EVER DELUXE" />
            <VoyageInformation AnyDG="Y" ETA="2018-01-01T09:54:24"
                NextPortOfCall="GRLAV" TotalPersonsOnBoard="13">
                <ShipPosition Latitude="20135500" Longitude="-39432000"
                    ReportingDateAndTime="2015-01-15T09:54:24" />
            </VoyageInformation>
        </MRSNotification>
    </Body>
</MS2SSN_Ship_Not>
```

MS2SSN_PortPlus_Not.xml message

Introduction

The PortPlus message is used by a Member State (acting as Data Provider) to reportto the Central SafeSeaNet system information related to a ship call in one of its ports, as received according the following notifications:

- Pre-arrival notification of information at least 72 hours before the ship's arrival in a EU port whenever the ship is eligible for an expanded PSC inspection (according to Article 9 of Directive 2009/16/EC);
- Pre-arrival notification of information at least 24 hours before the ship's arrival in a EU port (according to Article 4 of Directive 2002/59/EC as amended);
- Pre-arrival notification of security information at least 24 hours before the ship's arrival in a EU port (according to Article 6.2 of Regulation EC 725/2004);
- Pre-arrival notification of waste and cargo residues at least 24 hours before the ship's arrival in a EU port (according to Article 6 of Directive 2000/59/EC as amended);
- Arrival notification, upon actual ship's arrival in a EU port (according to Article 24.2 of Directive 2009/16/EC);
- Departure notification, upon actual ship's departure in a EU port (according to Article 24.2 of Directive 2009/16/EC);
- Notification of dangerous and polluting goods carried onboard a ship leaving or bound for an EU port(HAZMAT)(according to Article 13 of Directive 2002/59/EC as amended)
- Nofication of bunkers carried onboard a ship leaving or bound for an EU port(reported separately from the notification of dangerous or polluting goods). This notification is to be made available via SSN by Member States that requirethat information on bunkerson board is reported in their National Single Window usingFAL 3 - Ship's Store Declaration.

Message description

The following table describes the XML message used for the transaction.

Continued on next page

MS2SSN_PortPlus_Not - Elements	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	From	1
	To	1
Body		1
NotificationStatus		1
	UpdateStatus	1
UpdateNotifications		0-99
	UpdateMSRefId	1
	DeleteHazmatNotificationInfoNonEUDepartures	0-1
	DeleteHazmatNotificationInfoEUDepartures	0-1
	DeleteWasteNotification	0-1
	DeleteSecurityNotification	0-1
	DeleteBunkersNotificationTowardsPortOfCall	0-1
	DeleteBunkersNotificationTowardsNextPort	0-1
Notification		1
VesselIdentification		1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
VoyageInformation		1
	ShipCallId	1
	LastPort	0-1
	PortOfCall	1
	PositionInPortOfCall	0-1
	PortFacilityLocode	0-1
	PortFacility	0-1
	ETDFromLastPort	0-1
	ETAToPortOfCall	0-1
	ETDFromPortOfCall	0-1
	NextPort	0-1
	ETAToNextPort	0-1
	BriefCargoDescription	0-1
PurposeOfCall		0-9
	CallPurposeCode	1
VesselDetails		0-1
	GrossTonnage	0-1
	ShipType	0-1
InmarsatCallNumber		0-5
	Inmarsat	1
CertificateOfRegistry		0-1
	IssueDate	0-1
	CertificateNumber	0-1
PortOfRegistry		0-1
	LoCode	0-1
	LocationName	0-1

MS2SSN_PortPlus_Not - Elements	Attributes	Occ
Company		0-1
	CompanyName	0-1
	IMOCompanyNr	0-1
PreArrival3DaysNotificationDetails		0-1
	PossibleAnchorage	0-1
	PlannedOperations	0-1
	PlannedWorks	0-1
	ShipConfiguration	0-1
	CargoVolumeNature	0-1
	ConditionCargoBallastTanks	0-1
PreArrival24HoursNotificationDetails		0-1
	POBVoyageTowardsPortOfCall	1
ArrivalNotificationDetails		0-1
	ATAPortOfCall	1
	Anchorage	0-1
DepartureNotificationDetails		0-1
	ATDPortOfCall	0-1
	POBVoyageTowardsNextPort	0-1
HazmatNotificationInfoNonEUDepartures		0-1
HazmatCargoInformation		1
	HazmatOnBoardYorN	1
	INFShipClass	0-1
DG		0-99
	DGClassification	1
CargoManifest		0-1
UrlDetails		0-1
	Url	1
	DocType	1
ContactDetails		0-1
	LastName	0-1
	FirstName	0-1
	LoCode	0-1
	Phone	1
	Fax	0-1
	EMail	0-1
HazmatNotificationInfoEUDepartures		0-1
HazmatCargoInformation		1
	HazmatOnBoardYorN	1
	INFShipClass	0-1
DG		0-99
	DGClassification	1
CargoManifest		0-1
UrlDetails		0-1
	Url	1
	DocType	1
ContactDetails		0-1
	LastName	0-1
	FirstName	0-1
	LoCode	0-1
	Phone	1
	Fax	0-1
	EMail	0-1

MS2SSN_PortPlus_Not - Elements	Attributes	Occ
WasteNotification		0-1
	LastPortDelivered	0-1
	LastPortDeliveredDate	0-1
	WasteDeliveryStatus	1
WasteDetails		0-1
	Source	1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
	WasteItem	0-∞
	PortDeliveryRemainingWaste	0-1
	WasteType	1
	WasteCode	1
	WasteDescription	0-1
	ToBeDelivered	1
	UnitOfMeasurement	1
	Quantity	1
	MaxStorage	0-1
	UnitOfMeasurement	1
	Quantity	1
	RetainedOnBoard	0-1
	UnitOfMeasurement	1
	Quantity	1
	EstimateGenerated	0-1
	UnitOfMeasurement	1
	Quantity	1
	DeliveredAtLastPort	1
	UnitOfMeasurement	1
	Quantity	1
SecurityNotification		0-1
	CurrentSecurityLevel	1
AgentInPortAtArrival		0-1
	AgentName	1
	Phone	0-1
	Fax	0-1
	EMail	0-1
BunkersNotificationTowardsPortOfCall		0-1
	BunkersReportedYorN	1
BunkersNotificationTowardsNextPort		0-1
	BunkersReportedYorN	1

Business rules The following rules apply to the PortPlus message:

No.	General Rule applicable to the PortPlus message
1	A PortPlus message should be sent to the Central SSN system each time information from the notifications,as presented in the introduction above,is received by the National SSN system.
2	The PortPlus message contains limited information; the remaining information is made available on request by the National SSN system (i.e. details regarding hazmat, security and waste).

3	A PortPlus message can be sent to cancel or update another PortPlus.
4	All PortPlus messages for a ship port call must be associated to an identifier of the ship call: the ShipCallId (in element “VoyageInformation”). The value ofShipCallId is defined by the NCA. The NCA guarantees that the ShipCallId value is unique for each call in a port of a MS.
5	Information from notification is reported per “data groups”. The PortPlus message may contain several data groups. Data groups can be reported in distinct PortPlus messages for the same ship call. This applies also to updates (there is no need to repeat data groups already provided in previous messages, but this is permitted). Data groups are the following: o VesselIdentification o VoyageInformation o VesselDetails o PreArrival3DaysNotificationDetails o PreArrival24HoursNotificationDetails o ArrivalNotificationDetails o DepartureNotificationDetails o HazmatNotificationInfoNonEUDepartures o HazmatNotificationInfoEUDepartures o WasteNotification o SecurityNotification o BunkersNotificationTowardsPortOfCall o BunkersNotificationTowardsNextPort Each data group corresponds to an element of the “Notification” element of the PortPlus message. Data groups “VesselIdentification” and “VoyageInformation” are mandatory and have therefore to be always provided. Once provided, data groups “ArrivalNotificationDetails” and “DepartureNotificationDetails” have to be repeated in updates messages.
6	The Central SSN system consolidates the information received through the PortPlus messages related to the same ship call. Consolidation is based on the ShipCallId value. All PortPlus messages received with the same ShipCallId value are merged. Content of the data groupsreceived from a message overwrites the information previously received. Data groups not provided in a message do not delete the corresponding data groups previously received (there is no need to repeat data groups already provided in previous messages).
7	The Central SSN system does not control the timeliness of information provided. The Central SSN systemdoes not reject information which is provided late. But it may apply controls for eaxample regarding ATA or ATD provided in the future (ATA or ATD > SentAt + 3h). In these cases, a warning message is sent in the Receipt message.
8	Cancellation of a ship call can be reported (through a PortPlus message) until an arrival notification is provided (data group “ArrivalNotificationDetails”). When receiving a cancellation PortPlus message, Central SSN system discards all PortPlus messages previously received for the same ship call (i.e. SSN will not process the information any further).

9	The PortPlus message does not support the deletion of a ship call. In the situation where a ship call needs to be deleted (when wrong information has been provided by mistake and cannot be corrected by a PortPlus message), a request must be sent to the EMSA MSS.
10	To delete a data group previously reported, the notification shall quote the specific attributes in the ***UpdateNotifications*** element. This is only possible for the following data groups: o HazmatNotificationInfoNonEUDepartures o HazmatNotificationInfoEUDepartures o WasteNotification o SecurityNotification o BunkersNotificationTowardsPortOfCall o BunkersNotificationTowardsNextPort
11	At reception of a PortPlus message, the Central SSN system controls if it complies with the structure, format and business rules. If one control fails, the whole message is rejected. Acceptance and rejection are indicated in the receipt message, as well as details of rejected elements.
12	The vessel identification attributes (IMO number, MMSI, Call Sign, ship name) must be checked by NCA against a ship reference database or the ship database of SSN.
13	The archiving of Ship calls is implemented as follows: o Ship call records are archived 60 days after the "ATD". o Ship call records with no "ATA" to be archived 30 days after the "ETA". The archiving is executed by Central SSN system every day at 3:00 a.m. Following the archival of a ship call, subsequent updates are rejected by SSN with the following message *"The Port Plus notification having PortOfCall = ' ' and shipCallId [ ] is invalid because no voyage was found with the specified shipCallId"*

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_PortPlus_Not - Item	Occ	Business rules
Header	1	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique per MS. If the MSRefId was already used in a message sent by the MS to the Central SSN System, the message is rejected.
SentAt	1	
From	1	
To	1	
Body	1	
NotificationStatus	1	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
UpdateStatus	1	- May be either “N” or “U”. - “N” means that this is the first PortPlus message for a ship call.“U” means that this is an update. - If a PortPlus message with UpdateStatus = “U” is received before the message it is meant to update is received(e.g. due to some error or technical delay), SSN Central System will nevertheless accept it, and will register and process it (consolidate). In such situation: - The receipt message will contain a warning message, - An e-mail warning will be sent to the 24/7 NCA to request the NCA to send the original message as soon as possible. - If a PortPlus message with UpdateStatus = “N” is received with a ShipCallId already registered in the Central SSN System, it is rejected.
UpdateNotifications	0–99	- Mandatory if UpdateStatus=”U” (update). - Used to identify previous message(s) sent for this ship call. The message(s) containing information to be updated are identified by their MSRefId(s) quoted as value of the UpdateMSRefId attribute
UpdateMSRefId	1	
DeleteHazmatNotificationInfoNonEUDepartures	0-1	
DeleteHazmatNotificationInfoEUDepartures	0-1	
DeleteWasteNotification	0-1	
DeleteSecurityNotification	0-1	
DeleteBunkersNotificationTowardsPortOfCall	0-1	
DeleteBunkersNotificationTowardsNextPort	0-1	
Notification	1	
VesselIdentification	1	- The identification of the ship must be equal in all PortPlus messages related to the same ship call. This is enforced as follows: - If the IMO number is provided in a PortPlus message, it has to be provided in all further PortPlus messages for the same ship call and it cannot be modified. - In the case where the IMO number is not provided, then the rule applies to the MMSI number, until an IMO number is provided.
IMONumber	0-1	Mandatory if MMSINumber is not provided.
MMSINumber	0-1	Mandatory if IMONumber is not provided.
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
VoyageInformation	1	
ShipCallId	1	
LastPort	0-1	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
PortOfCall	1	- The PortOfCall value notified within a new notification (UpdateStatus="N") must not be changed in any of the update messages (UpdateStatus="U"), unless the updated value remains among the permitted locations of the nothifying Authority. Otherwise the message is rejected. - Use value “ZZCAN” to report a cancelation of a ship call. This is only allowed with UpdateStatus = “U” and if element ArrivalNotificationDetails is not provided (e.g. before the arrival of the ship).
PositionInPortOfCall	0-1	
PortFacilityLocode	0-1	
PortFacility	0-1	Mandatory if PortFacilityLocode provided
ETDFromLastPort	0-1	
ETAToPortOfCall	0-1	- Must be < ETDFromPortOfCall - Mandatory unless: o PortOfCall = “ZZCAN”, or o ATAPortOfCall is provided. - In the cases above, if a value is provided, it is ignored.
ETDFromPortOfCall	0-1	- Must be >ETAToPortOfCall. - Mandatory if: o ATDPortOfCall is not provided, and o PortOfCall is not "ZZCAN", and o One of the following elements is provided: PreArrivalNotification24HoursDetails, or HazmatNotificationInfoEUDepartures, or PreArrival3DaysNotificationDetails, or WasteNotification. - In the cases where PortOfCall = “ZZCAN” or ATDPortOfCall is provided, the ETDFromPortOfCall value will be ignored.
NextPort	0-1	- Use “ZZUKN” if next port is unknown at the time of the report - Use “XZOFF” if ship is bound to an offshore location. - Mandatory if HazmatNotificationInfoEUDepartures with HazmatOnBoardYorN = “Y” orBunkersNotificationTowardsNextPort with BunkersReportedYorN = “Y” are provided.
ETAToNextPort	0-1	- Must be > ETDFromPortOfCall - Mandatory if HazmatNotificationInfoEUDepartures with HazmatOnBoardYorN = “Y” orBunkersNotificationTowardsNextPort with BunkersReportedYorN = “Y” are provided, unless NextPort=ZZUKN. - If NextPort=ZZUKN, value is ignored if provided.
BriefCargoDescription	0-1	
PurposeOfCall	0-9	
CallPurposeCode	1	
VesselDetails	0-1	Recommendation: should be provided if Security information element is provided
GrossTonnage	0-1	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
ShipType	0-1	
InmarsatCallNumber	0-5	Note: the same Inmarsat number can only be reported once
Inmarsat	1	
CertificateOfRegistry	0-1	
IssueDate	0-1	
CertificateNumber	0-1	
PortOfRegistry	0-1	
LoCode	0-1	Mandatory if LocationName is not provided
LocationName	0-1	Mandatory if LoCode is not provided
Company	0-1	
CompanyName	0-1	Mandatory if IMOCompanyNr is not provided.
IMOCompanyNr	0-1	Mandatory if CompanyName is not provided.
PreArrival3DaysNotificationDetails	0-1	- To be provided, at least three days from expected arrival to the Port of Call for shipseligible to an expanded inspection according to the PSC Directive 2009/16/EC and if MS does not have in place other arrangements to provide this information directly to PSC officers. Otherwise optional. - At least one of itsattributes below must be provided.
PossibleAnchorage	0-1	
PlannedOperations	0-1	
PlannedWorks	0-1	
ShipConfiguration	0-1	Recommendation: should be provided in the case of tankers
CargoVolumeNature	0-1	Recommendation: should be provided in the case of tankers
ConditionCargoBallastTanks	0-1	Recommendation: should be provided in the case of tankers
PreArrival24HoursNotificationDetails	0-1	- Mandatory if element HazmatNotificationInfoNonEUDepartures is provided. - May also be used to update the POBVoyageTowardsPortOfCall information upon the actual arrival of the vessel to the port of call.
POBVoyageTowardsPortOfCall	1	“99999” if actually unknown
ArrivalNotificationDetails	0-1	- Once provided, to be repeated in all update messages. - Mandatory if DepartureNotificationDetails is provided.
ATAPortOfCall	1	- Must be < ATDPortOfCall if provided. - Cannot be older than 1 year from the moment when the notification is received by Central SSN System (ATAPortOfCall > moment when the notification is received – 1 year), unless provided in an update notification with the same value as already stored in the Central SSN System. (e.g which is used to report other information, such as the ATD).
Anchorage	0-1	
DepartureNotificationDetails	0-1	Once provided, to be repeated in all update messages.
ATDPortOfCall	0-1	Must be > ATAPortOfCall

MS2SSN_PortPlus_Not - Item	Occ	Business rules
POBVoyageTowardsNextPort	0-1	Mandatory if HazmatNotification InfoEUDepartures provided
HazmatNotificationInfoNonEUDepartures	0-1	Refers to DPG Cargo only, Bunkers are to be reported separately in ***BunkersNotificationTowardsPortOfCall***
HazmatCargoInformation	1	
HazmatOnBoardYorN	1	- Must be “Y” or “N” - “N” may be used to discard previously provided HazmatNotificationInfoNonEUDepartures.
INFShipClass	0-1	The INF class of the ship has to be reported only if the ship is carrying any of the materials covered by The International Code for the Safe Carriage of Packaged Irradiated Nuclear Fuel, Plutonium and High-Level Radioactive Wastes on Board Ships (INF Code). For further guidance refer to SSN Guidelines on Reporting HAZMAT.
DG	0 - 99	Provides the indication of the types of dangerous and polluting goods on board.For guidance refer to the SSN Guidelines on Reporting HAZMAT.
DGClassification	1	
CargoManifest	0-1	Indicates where detailed information on the dangerous and polluting goods is made available. This is either as a document on a web server (UrlDetails must then be specified) or via a phone/fax/e-mail (ContactDetails must then be specified).
UrlDetails	0-1	- Indicates the type and the URL of the document containing the detailed information on the dangerous and polluting goods. - Not allowed if ContactDetails is provided.
Url	1	Must start with “https://”
DocType	1	Extensions are case insensitive.
ContactDetails	0-1	- Indicates the contact details of the person from whom detailed information on the dangerous and polluting goods can be obtained. - Not allowed if UrlDetails is provided.
LastName	0-1	
FirstName	0-1	
LoCode	0-1	Location code of the contact person. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	0-1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	
HazmatNotificationInfoEUDepartures	0-1	Refers to DPG Cargo only, Bunkers are to be reported separately in ***BunkersNotificationTowardsNextPort***
HazmatCargoInformation	1	
HazmatOnBoardYorN	1	- Must be “Y” or “N” - “N” may be used to discard previously provided HazmatNotification InfoEUDepartures.

MS2SSN_PortPlus_Not - Item	Occ	Business rules
INFShipClass	0-1	Recommendation: This is to be provided only if ship carries class 7 cargo.
DG	0 - 99	
DGClassification	1	
CargoManifest	0-1	Indicates where detailed information on the polluting and dangerous cargo is made available. This is either as a document on a web server (UrlDetails must then be specified) or via a phone/fax/e-mail (ContactDetails must then be specified).
UrlDetails	0-1	- Indicates the type and the URL of the document containing the detailed information on the polluting and dangerous cargo - Not allowed if ContactDetails is provided.
Url	1	Must start with “https://”
DocType	1	Extensions are case insensitive.
ContactDetails	0-1	- Indicates the contact details of the person from which detailed information on the polluting and dangerous cargo can be obtained. - Not allowed if UrlDetails is provided.
LastName	0-1	
FirstName	0-1	
LoCode	0-1	Location code of the contact person. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	0-1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	
WasteNotification	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
WasteDetails	0-1	During V3-V4 transition period: If using V3, requests will be used to get the waste details; if using V4, no requests will be done.
Source	1	This is the source of the latest update of Waste information registered in the NCA database
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
WasteItem	0-∞	One WasteItem per Waste Type on board.
PortDeliveryRemainingWaste	0-1	Recommendation: should be provided if WasteDeliveryStatus = "Some" or "None" for the specific WasteItem
WasteType	1	
WasteCode	1	
WasteDescription	0-1	Recommendation: should be provided for some WasteCode as specified in the table in Annex B (indicated in column “Free text description needed”)
ToBeDelivered	1	
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**” Following V3-V4 transition period, only “**M3**” will be allowed

MS2SSN_PortPlus_Not - Item	Occ	Business rules
Quantity	1	Zero (‘0’) must be used for waste types for which nothing will be delivered.
MaxStorage	0-1	Recommendation: To be provided if WasteDeliveryStatus = "Some" or "None"
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**” Following V3-V4 transition period, only “**M3**” will be allowed
Quantity	1	
RetainedOnBoard	0-1	Recommendation: To be provided if WasteDeliveryStatus = "Some" or "None".
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**” Following V3-V4 transition period, only “**M3**” will be allowed
Quantity	1	Zero (‘0’) must be used for waste types for which nothing will be kept onboard.
EstimateGenerated	0-1	Recommendation: To be provided if WasteDeliveryStatus = "Some" or "None"
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**” Following V3-V4 transition period, only “**M3**” will be allowed
Quantity	1	
DeliveredAtLastPort	1	
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**” Following V3-V4 transition period, only “**M3**” will be allowed
Quantity	1	Zero (‘0’) must be used for waste types for which nothing was delivered in last port.
SecurityNotification	0-1	
CurrentSecurityLevel	1	
AgentInPortAtArrival	0-1	
AgentName	1	
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email) Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	0-1	At least one contact detail must be provided (Phone, Fax or Email) Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	At least one contact detail must be provided (Phone, Fax or Email)
BunkersNotificationTowardsPortOfCall	0-1	
BunkersReportedYorN	1	Must be “Y” or “N”
BunkersNotificationTowardsNextPort	0-1	
BunkersReportedYorN	1	Must be “Y” or “N”

Example of a PortPlus notification

PreArrival3Days notification example:

```
<?xml version="1.0" encoding="UTF-8"?>
  <ssn:MS2SSN_PortPlus_Not xmlns:ssn="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
     <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_01a01aad" SentAt="2018-05-18T14:27:26Z" To="SafeSeaNet" Version="4.0"/>
     <ssn:Body>
        <ssn:NotificationStatus UpdateStatus="N"/>
        <ssn:Notification>
           <ssn:VesselIdentification IMONumber="9332511"/>
           <ssn:VoyageInformation PortOfCall="GRPIR" ETAToPortOfCall="2018-02-02T12:00:00Z"
           ETDFromPortOfCall="2018-02-03T12:00:00Z" PositionInPortOfCall="MARINE"
           ShipCallId="shipCallIdTESTa01ad" ETAToNextPort="2018-02-03T22:00:00Z"
           LastPort="PTLIS" NextPort="BEOST" ETDFromLastPort="2018-02-01T12:00:00Z"/>
           <ssn:PreArrival3DaysNotificationDetails CargoVolumeNature=" fuel"
            ConditionCargoBallastTanks="inerted" PlannedWorks="Maintenance"
            PlannedOperations="unloading" PossibleAnchorage="Y" ShipConfiguration="SHT"/>
        </ssn:Notification>
     </ssn:Body>
  </ssn:MS2SSN_PortPlus_Not>
```

PreArrival24hours and HazmatNotificationInfoNonEUDepartures notification example:

```
<?xml version="1.0" encoding="UTF-8"?>
    <ssn:MS2SSN_PortPlus_Not xmlns:ssn="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
     <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_1602_05ph" SentAt="2018-05-21T14:27:26Z" To="SafeSeaNet" Version="4.0"/>
     <ssn:Body>
        <!--<ssn:NotificationStatus UpdateStatus="N">-->
        <ssn:NotificationStatus UpdateStatus="U">
           <ssn:UpdateNotifications UpdateMSRefId="MS2SSN_PP_S1_1602_05n"/>
        </ssn:NotificationStatus>
        <ssn:Notification>
           <ssn:VesselIdentification IMONumber="9332511"/>
           <ssn:VoyageInformation PortOfCall="GRPIR" ETAToPortOfCall="2018-07-28T12:00:00Z" ETDFromPortOfCall="2018-07-29T12:00:00Z"
           PositionInPortOfCall="MARINE" ShipCallId="shipCallIdTEST01c6" ETAToNextPort="2018-07-29T22:00:00Z"
           LastPort="PTLIS" NextPort="BEOST" ETDFromLastPort="2018-07-27T12:00:00Z"/>
           <ssn:PreArrival3DaysNotificationDetails CargoVolumeNature="fossil fuel" ConditionCargoBallastTanks="full"
           PlannedWorks="Maintenance" PlannedOperations="unloading" PossibleAnchorage="Y" ShipConfiguration="SHT"/>
           <ssn:PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="20"/>
           <ssn:HazmatNotificationInfoNonEUDepartures>
              <ssn:HazmatCargoInformation HazmatOnBoardYorN="Y">
                 <ssn:DG DGClassification="IMDG"/>
              </ssn:HazmatCargoInformation>
              <ssn:CargoManifest>
                 <ssn:ContactDetails LoCode="GRPIR" Fax="21012563467" Phone="2101233465"/>
              </ssn:CargoManifest>
           </ssn:HazmatNotificationInfoNonEUDepartures>
        </ssn:Notification>
     </ssn:Body>
  </ssn:MS2SSN_PortPlus_Not>
```

Arrival notification example:

```
<?xml version="1.0" encoding="UTF-8"?>
    <ssn:MS2SSN_PortPlus_Not xmlns:ssn="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
     <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_1602_05ph" SentAt="2018-05-21T14:27:26Z" To="SafeSeaNet" Version="4.0"/>
     <ssn:Body>
        <!--<ssn:NotificationStatus UpdateStatus="N">-->
        <ssn:NotificationStatus UpdateStatus="U">
           <ssn:UpdateNotifications UpdateMSRefId="MS2SSN_PP_S1_1602_05n"/>
        </ssn:NotificationStatus>
        <ssn:Notification>
           <ssn:VesselIdentification IMONumber="9332511"/>
           <ssn:VoyageInformation PortOfCall="GRPIR" ETAToPortOfCall="2018-07-28T12:00:00Z" ETDFromPortOfCall="2018-07-29T12:00:00Z"
           PositionInPortOfCall="MARINE" ShipCallId="shipCallIdTEST01c7" ETAToNextPort="2018-07-29T22:00:00Z"
           LastPort="PTLIS" NextPort="BEOST" ETDFromLastPort="2018-07-27T12:00:00Z"/>
           <ssn:PreArrival3DaysNotificationDetails CargoVolumeNature="fossil fuel" ConditionCargoBallastTanks="full"
           PlannedWorks="Maintenance" PlannedOperations="unloading" PossibleAnchorage="Y" ShipConfiguration="SHT"/>
           <ssn:PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="20"/>
           <ssn:ArrivalNotificationDetails ATAPortOfCall="2017-04-21T18:27:27Z"/>
           <ssn:HazmatNotificationInfoNonEUDepartures>
              <ssn:HazmatCargoInformation HazmatOnBoardYorN="Y">
                 <ssn:DG DGClassification="IMDG"/>
              </ssn:HazmatCargoInformation>
              <ssn:CargoManifest>
                 <ssn:ContactDetails LoCode="GRPIR" Fax="21012563467" Phone="2101233465"/>
              </ssn:CargoManifest>
           </ssn:HazmatNotificationInfoNonEUDepartures>
        </ssn:Notification>
     </ssn:Body>
  </ssn:MS2SSN_PortPlus_Not>
```

Waste and Security information example:

```
<?xml version="1.0" encoding="UTF-8"?>
 <ssn:MS2SSN_PortPlus_Not xmlns:ssn="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_1602_08" SentAt="2018-05-21T14:27:26Z" To="SafeSeaNet" Version="4.0"/>
    <ssn:Body>
       <!--<ssn:NotificationStatus UpdateStatus="N">-->
       <ssn:NotificationStatus UpdateStatus="U">
          <ssn:UpdateNotifications UpdateMSRefId="MS2SSN_PP_S1_1602_05n"/>
       </ssn:NotificationStatus>
       <ssn:Notification>
          <ssn:VesselIdentification IMONumber="9332511"/>
          <ssn:VoyageInformation PortOfCall="GRPIR" ETAToPortOfCall="2018-07-28T12:00:00Z" ETDFromPortOfCall="2018-07-29T12:00:00Z"
           ShipCallId="shipCallIdTEST01c6"  LastPort="PTLIS" NextPort="BEOST" ETDFromLastPort="2018-07-27T12:00:00Z"/>
          <ssn:PreArrival3DaysNotificationDetails  PossibleAnchorage="Y" />
          <ssn:PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="20"/>
          <ssn:ArrivalNotificationDetails ATAPortOfCall="2018-04-21T18:27:27Z"/>
          <ssn:HazmatNotificationInfoNonEUDepartures>
             <ssn:HazmatCargoInformation HazmatOnBoardYorN="Y">
                <ssn:DG DGClassification="IMDG"/>
             </ssn:HazmatCargoInformation>
             <ssn:CargoManifest>
                <ssn:ContactDetails LoCode="GRPIR" Fax="21012563467" Phone="2101233465"/>
             </ssn:CargoManifest>
          </ssn:HazmatNotificationInfoNonEUDepartures>
          <ssn:WasteNotification LastPortDelivered="PTLIS" LastPortDeliveredDate="2018-07-27" WasteDeliveryStatus="All"/>
         <ssn:SecurityNotification CurrentSecurityLevel="SL2"/>
           <AgentInPortAtArrival AgentName="John" Phone="2101234567"
       </ssn:Notification>
    </ssn:Body>
 </ssn:MS2SSN_PortPlus_Not>
```

Departure and HazmatNotificationInfoEUDepartures notification example:

```
<?xml version="1.0" encoding="UTF-8"?>
 <ssn:MS2SSN_PortPlus_Not xmlns:ssn="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_1602_10" SentAt="2018-05-21T10:27:26Z" To="SafeSeaNet" Version="4.0"/>
    <ssn:Body>
       <!--<ssn:NotificationStatus UpdateStatus="N">-->
       <ssn:NotificationStatus UpdateStatus="U">
          <ssn:UpdateNotifications UpdateMSRefId="MS2SSN_PP_S1_1602_05n"/>
       </ssn:NotificationStatus>
       <ssn:Notification>
          <ssn:VesselIdentification IMONumber="9332511"/>
          <ssn:VoyageInformation PortOfCall="GRPIR" ETAToPortOfCall="2018-07-28T12:00:00Z" ETDFromPortOfCall="2018-07-29T12:00:00Z"
           ShipCallId="shipCallIdTEST01c6"  LastPort="PTLIS" NextPort="BEOST" ETDFromLastPort="2018-07-27T12:00:00Z"/>
          <ssn:PreArrival3DaysNotificationDetails  PossibleAnchorage="Y" />
          <ssn:PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="20"/>
          <ssn:ArrivalNotificationDetails ATAPortOfCall="2018-04-21T18:27:27Z"/>
          <ssn:DepartureNotificationDetails ATDPortOfCall="2018-01-19T10:06:56Z" POBVoyageTowardsNextPort="18"/>
              <ssn:HazmatNotificationInfoEUDepartures>
             <ssn:HazmatCargoInformation HazmatOnBoardYorN="Y">
                <ssn:DG DGClassification="IMDG"/>
             </ssn:HazmatCargoInformation>
             <ssn:CargoManifest>
                <ssn:ContactDetails LoCode="GRPIR" Fax="2101234567" Phone="2101234567"/>
             </ssn:CargoManifest>
          </ssn:HazmatNotificationInfoEUDepartures>
          <ssn:WasteNotification LastPortDelivered="PTLIS" LastPortDeliveredDate="2018-07-27" WasteDeliveryStatus="All"/>
         <ssn:SecurityNotification CurrentSecurityLevel="SL2"/>
           <AgentInPortAtArrival AgentName="John" Phone="2101234567"
       </ssn:Notification>
    </ssn:Body>
 </ssn:MS2SSN_PortPlus_Not>
```

WasteInformationDetailsexample:

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <Header Version="4.0" SentAt="2018-04-20T23:55:30.8427687Z" From="GRPIR01" To="SafeSeaNet" MSRefId=
        "MS2SSN_S1602-10eNS6"/>
    <Body>
        <NotificationStatus UpdateStatus="U">
            <UpdateNotifications UpdateMSRefId="MS2SSN_S1602-10e"/>
        </NotificationStatus>
        <Notification>
            <VesselIdentification IMONumber="9332511"/>
            <VoyageInformation ShipCallId="46450" PortOfCall="GRPIR" ETAToPortOfCall="2018-04-21T07:50:00" NextPort=
                "BEOST" ETAToNextPort="2018-04-24T19:15:00" ETDFromPortOfCall="2018-04-21T12:00:00" PositionInPortOfCall=
                "MARINE" LastPort="PTLIS" ETDFromLastPort="2018-04-18T12:00:00"/>
            <PreArrival3DaysNotificationDetails CargoVolumeNature="fossil fuel" ConditionCargoBallastTanks="full"
                PlannedOperations="unloading" PlannedWorks="Maintenance" PossibleAnchorage="Y" ShipConfiguration="SHT" />
            <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="20"/>
            <ArrivalNotificationDetails ATAPortOfCall="2018-04-21T07:50:00"/>
            <DepartureNotificationDetails POBVoyageTowardsNextPort="100" ATDPortOfCall="2018-04-21T12:00:00"/>
            <WasteNotification LastPortDelivered="PTLIS" LastPortDeliveredDate="2018-04-17" WasteDeliveryStatus="All">
                <WasteDetails>
                    <Source ProviderOfLastUpdate="GRPIR01" LastUpdateReceivedAt="2018-04-20T23:55:30.8711979Z"/>
                    <WasteItem PortDeliveryRemainingWaste="BEOST">
                        <WasteType WasteCode="2100" WasteDescription="Food waste"/>
                        <ToBeDelivered UnitOfMeasurement="M3" Quantity="1.00"/>
                        <MaxStorage UnitOfMeasurement="M3" Quantity="3.00"/>
                        <RetainedOnBoard UnitOfMeasurement="M3" Quantity="0.00"/>
                        <EstimateGenerated UnitOfMeasurement="M3" Quantity="1.00"/>
                        <DeliveredAtLastPort UnitOfMeasurement="M3" Quantity="1.00"/>
                    </WasteItem>
                    </WasteDetails>
            </WasteNotification>
            <SecurityNotification CurrentSecurityLevel="SL2"/>
            <BunkersNotificationTowardsPortOfCall BunkersReportedYorN="Y"/>
            <BunkersNotificationTowardsNextPort BunkersReportedYorN="Y"/>
        </Notification>
    </Body>
</MS2SSN_PortPlus_Not>
```

MS2SSN_Exemption_Not.xml message

Introduction

This section describes the ExemptionNotification XML message that may be used by a Member State (acting as *Data Provider*) to report to the Central SafeSeaNet System details regarding an exemption granted to a ship concerning:

- Pre-arrival notifications (article 4 of Directive 2002/59/EC),
- Notifications of dangerous or polluting goods carried on board (article 13 of Directive 2002/59/EC),
- Notifications of security information (article 6 of Regulation (EC) No 725/2004).
- Notification of waste and residues (article 6 of Directive 2000/59/EC)

As an alternative to this XML message, Member Statesmay report information on exemptions using the web interface ofthe Central SSN System.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_Exemption_Not - Elements	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	From	1
	To	1
Body		1
Exemption		1

MS2SSN_Exemption_Not - Elements	Attributes	Occ
	ExemptionID	1
	UpdateStatus	1
VesselIdentification		0-1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
ExemptionDetails		0-1
	ExemptionType	1
	CompanyName	1
	DateFrom	1
	DateTo	1
Route		1-∞
	Port	1
ExemptedWasteTypes		0-∞
	WasteCode	1
	WasteDescription	0-1
ExemptionAppliesTo		0-∞
	Port	1
ExemptedPortFacilities		0-∞
	PortFacilityLocode	1
	PortFacility	1
Authority		1
	Country	1
	AuthorityType	1
	AuthorityName	1
Contact24/7		1
	FirstName	0-1
	LastName	0-1
	LoCode	0-1
	Phone	0-1
	Fax	0-1
	EMail	0-1

Business rules The following rules apply to the Exemption message:

No.	General Rule applicable to the Exemption message
1	AnExemption message should be sent to the Central SSN system each time an exemption is granted to a ship and each time changes are applied to an exemption (this may be a modification or a deletion).
2	An exemption as reported to SafeSeaNet applies to a single ship. A ship may be subject to several exemptions of the same type.

3	An exemption is associated to an identifier (ExemptionID). The value of ExemptionIDis defined by the NCA and the NCA guarantees that the value is unique within the MS. Note: When the information on exemption is provided through the Web Interface, the Central SSN System defines the value of ExemptionID.
4	When receiving an exemption message for an already existing exemption (same ExemptionID and UpdateStatus=”U”), the Central SSN System replaces the existing information with the information received in the message.

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Exemption_Not- Item	Occ	Business rules
Header	1	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique per MS. If the MSRefId was already used in a message sent by the MS to the Central SSN System, the message is rejected.
SentAt	1	
From	1	
To	1	
Body	1	
Exemption	1	
ExemptionID	1	
UpdateStatus	1	- May be “N” or “U” or “D”. - “N” means that this is to create an exemption. “U” means that this is an update on an existing exemption. “D” means that this is to delete an existing exemption. - If a message with UpdateStatus = “U”or “D” is received with an ExemptionID which is not registered in the Central SSN System, it is rejected. - If a message with UpdateStatus = “N” is received with anExemptionID already registered in the Central SSN System, it is rejected.
VesselIdentification	0-1	Mandatory if UpdateStatus = “N” or “U”.
IMONumber	0-1	Mandatory if MMSINumber is not provided.
MMSINumber	0-1	Mandatory if IMONumber is not provided.
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
ExemptionDetails	0-1	Mandatory if UpdateStatus = “N” or “U”.
ExemptionType	1	
CompanyName	1	
DateFrom	1	Indicates the validity period of the Exemption.
DateTo	1	
Route	1-∞	
Port	1	

MS2SSN_Exemption_Not- Item	Occ	Business rules
ExemptedWasteTypes	0-∞	Recomendation: Should be provided for ExemptionType = “Waste Notification”, “Waste Delivery” and “Waste Fees”
WasteCode	1	At least one waste type, or the indication of “all waste types” (code “**0000**”), must be provided.
WasteDescription	0-1	Recommendation: should be provided for some WasteCode as specified in the table in Annex B (indicated in column “Free text description needed”)
ExemptionAppliesTo	0-∞	Following V3-V4 transition period, at least one port should be identified
Port	1	Only ports of the same country to which the reporting authority belongs to.
ExemptedPortFacilities	0-∞	Recomendation: Should be provided for ExemptionType = “Security”
PortFacilityLocode	1	
PortFacility	1	
Authority	1	
Country	1	Only authorities of the same country to which the reporting authority belongs to.
AuthorityType	1	
AuthorityName	1	
Contact24/7	1	
FirstName	0-1	
LastName	0-1	
LoCode	0-1	
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email) Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	0-1	At least one contact detail must be provided (Phone, Fax or Email) Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	At least one contact detail must be provided (Phone, Fax or Email)

Example of a Exemption notification

```
<?xml version="1.0" encoding="UTF-8"?>
 <ssn:MS2SSN_Exemption_Not xmlns:ssn="urn:eu.emsa.ssn">
    <ssn:Header From="GRPIR01" MSRefId="MS2SSN_PP_S1_1903-EM17"
    SentAt="2018-07-31T10:00:00Z" To="SafeSeaNet" Version="4.0"/>
    <ssn:Body>
       <ssn:Exemption ExemptionID="EUhtUBIBj1212ae" UpdateStatus="N">
          <ssn:VesselIdentification IMONumber="8829127" MMSINumber="261000130"/>
          <ssn:ExemptionDetails CompanyName="ii" DateFrom="2018-07-18"
          DateTo="2018-07-19" ExemptionType="Pre-Arrival">
             <ssn:Route Port="BE111"/>
             <ssn:Route Port="BE888"/>
             <ssn:ExemptedWasteTypes WasteCode="0000"/>
             <ssn:ExemptionAppliesTo Port="BE888">
             <ssn:ExemptedPortFacilities PortFacilityLocode="BE888" PortFacility="1234"/>
            </ssn:ExemptionAppliesTo>
             <ssn:Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="BE"/>
             <ssn:Contact247 EMail="aggelos.argyropoulos@intrasoft-intl.com" Fax="+351211209415"
             FirstName="SafeSeaNet" LastName="EMSA" LoCode="EUCOM" Phone="+351211209415"/>
          </ssn:ExemptionDetails>
       </ssn:Exemption>
    </ssn:Body>
 </ssn:MS2SSN_Exemption_Not>
```

Section 3.5 - Send IncidentDetail Notifications

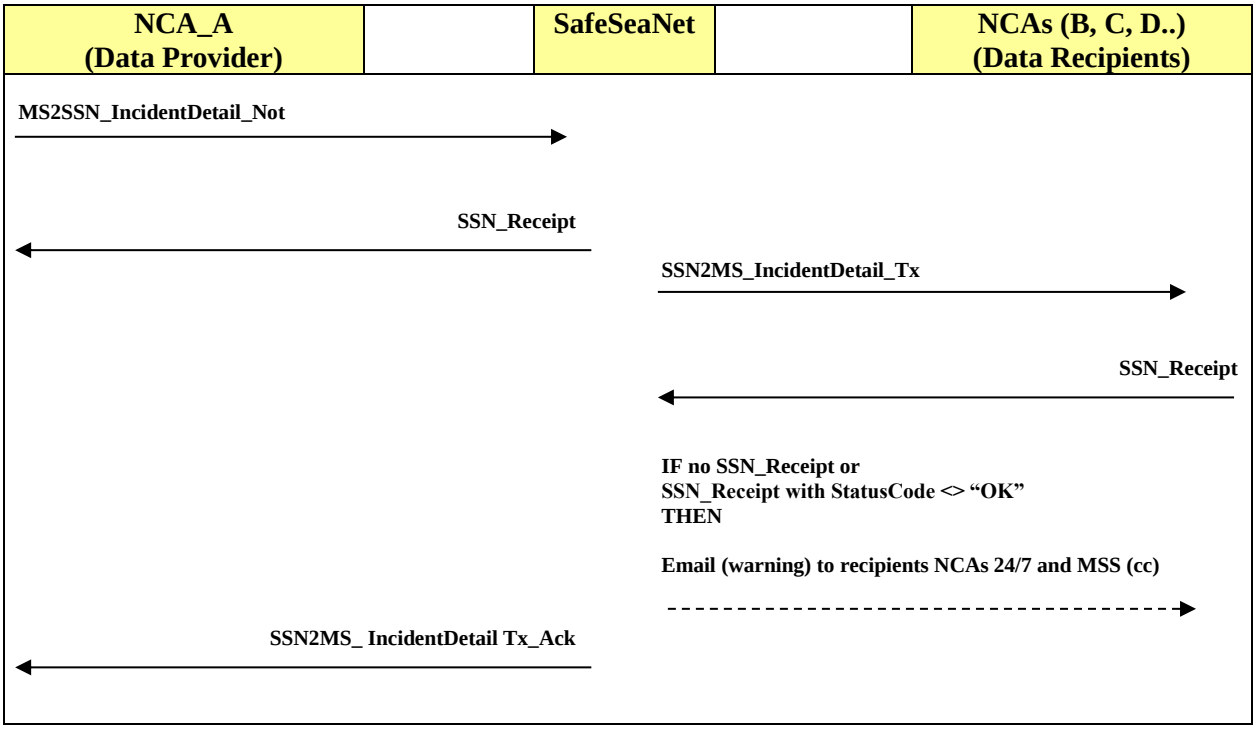
Overview

Introduction

This section describes the different XML messages a Member State (acting as *Data Provider*) may use, on a voluntary basis, the new type of IncidentDetails message to notify SafeSeaNet that in turn will distribute to the recipient Member States information about a specific incident type. The flow of the IncidentDetails XML messages is described in the following sub-section.

Flow of the IncidentDetail XML messages

The following figure outlines the expected **asynchronous** flow (except the SSN_Receipts which are **synchronous** flows) of XML messages specific to the distribution of the IncidentDetails XML notification details to the Member State recipients upon receipt of the *MS2SSN_IncidentDetail_Not* from the Data Provider.



Contents

This section contains the following topics:

MS2SSN_IncidentDetail_Not.xml message

Introduction

The **MS2SSN_IncidentDetail_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet that in turn will distribute to the recipient Member States information about a specific incident type.

Types of Incident

The following types of incidents are supported by SafeSeaNet:

Incident Type	Description
Waste	Waste reporting Incident
SITREP	Situation report
POLREP	Pollution report
Lost/found Containers	Reporting containers or packages drifting at sea
FailedNotification	Failed Notification report
VTSRulesInfringement	VTS Rules Infringement report
BannedShip	Banned Ship report
InsuranceFailure	InsuranceFailure report
PilotOrPortReport	Pilot orPort report
Other	Any other one not in the above list

MS2SSN_ IncidentDetail_Not Message description

The following table describes the MS2SSN_IncidentDetail_Not XML message used for the transaction.

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	From	1
	To	1
Body		***1***
Notification		***1***
Incident		***0-1***
IncidentIdentification		***1***
	Type	1
	IncidentID	1
	ReportSequence	0-1
AssociatedIncidentReport		0-99
	AssociatedIncidentID	1
IncidentNotificationStatus		***1***
	UpdateStatus	1

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
UpdateNotifications		0-99
	UpdateMSRefId	1
IRDistributionDetails		***1***
	DistributionIR_yes_no	1
	IRDistributionToFlagState	0-1
IRRecipient		0-99
	RecipientCountry	1
	ActionRequestedDetail	0-1
IRVesselIdentificationList		***0-1***
IRVesselIdentification		***1-99***
IRVessel_IdentityVerified		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
IRVessel_IdentityNotFullyVerified		***0-1***
	DescribeVessel	1
IRVoyageInformation		***0-1***
	PortofDeparture	0-1
	PortOfDestination	0-1
	TotalPersonsOnBoard	0-1
CargoManifest		***0-1***
UrlDetails		***0-1***
	Url	1
	DocType	1
ContactDetails		***0-1***
	LastName	0-1
	FirstName	0-1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1
ShipPositionAtTimeOfIncident		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
ShipPositionAtTimeOfReporting		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
AuthorityReportingIncident		***1***
SSNUserIdentifier		0-1
	SSNUserID	1
IdentificationOfAuthority		0-1
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1
IncidentDetailsDocument		***0-1***
Base64Details		***1***
	DocType	1
	Base64Content	1
IncidentDetails		***0-1***
WasteIncidentInformation		***0-1***
NonComplianceInformation		***1***
	WasteDeliveryDuePort	1
	ETD	1
	InspectionReason	1
InspectionInformation		***0-1***
	Deficiencies	1
	ActionTaken	1
InspectionAuthority		***1***
	Name	1
	Phone	1
	Fax	0-1

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
	EMail	0-1
SITREPIncidentInformation		***0-1***
SITREPInformation		***1***
C_Situation		***1***
	MessageType	1
	NotifiedAt	1
	Nature	1
	D_NumberOfPersonsAtRisk	0-1
	E_AssistanceRequired	0-1
	F_CoordinatingAuthority	0-1
	G_CasualtyDescription	0-1
	H_WeatherOnScene	0-1
	J_InitialActionTaken	1
	K_SearchArea	0-1
	L_CoordinatingInstructions	0-1
	M_FuturePlans	0-1
	N_AdditionalInformation	0-1
POLREPIncidentInformation		***0-1***
POLREPInformation		***1***
POLWARN		***0-1***
P1_DateTime		1
P3_Incident		0-1
P4_Outflow		0-1
P5_Acknowledge		0-1
P2_Position		***1***
GeoCoordinates		0-1
	Longitude	1
	Latitude	1
Area		0-1
	GeographicalArea	1
BearingDistance		0-1
	Bearing	1
	Distance	1
	Mark	1
POLINF		***0-1***
P40_DateTime		0-1
P41_PollutionPosition		0-1
P42_PollutionChars		0-1
P43_PollutionSource		0-1
P44_Wind		***0-1***

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
	Speed	1
	Direction	1
P45_Tide		***0-1***
	Speed	1
	Direction	1
P46_SeaState		***0-1***
	WaveHeight	1
	Visibility	0-1
P47_PollutionDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
P48_PollutionEffectForecast		0-1
P49_ObserverIdentity		***0-99***
	Name	1
	HomePort	0-1
	Flag	0-1
	CallSign	0-1
P50_ActionTaken		1
P51_Photographs		0-1
P52_InformedStateOrg		***0-99***
	Name	1
P53_OtherInformation		0-1
P60_Acknowledge		0-1
POLFAC		***0-1***
P80_DateTime		0-1
P81_RequestForAssistance		0-1
Assistance		***0-1***
	P82_Cost	0-1
	P83_PreArrangements	0-1
	P84_Delivery	0-1
P85_InformedStateOrg		***0-99***
	Name	1
P86_ChangeOfCommand		0-1
P87_ExchangeOfInformation		0-1
P88_OtherInformation		0-1
P99_Acknowledge		0-1
LostFoundObjectIncidentInformation		***0-1***
LostFoundObjectInformation		***1***
	DateTimeReportLostFoundObject	1

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
	P1_ReportType	1
P2_ShipOrObserverIdentification		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
	Other	0-1
ObjectInformation		***1***
P3_ObjectPosition		***1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
ObjectDetails		**0-1**
	P4_NumberOfObjects	0-1
	P5_TypeOfGoods	0-1
Object		***0-99***
	Description	1
	CargoLeaking	0-1
Wind		***0-1***
	Speed	1
	Direction	1
Tide		***0-1***
	Speed	1
	Direction	1
SeaState		***0-1***
	WaveHeight	1
	Visibility	0-1
ObjectDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
FailedNotificationIncidentInformation		***0-1***

MS2SSN_IncidentDetail_Not - Elements	Attributes	Occ
Description		***1***
<TBD>		
VTSRulesInfringementIncidentInformation		***0-1***
Description		***1***
<TBD>		
BannedShipIncidentInformation		***0-1***
Description		***1***
<TBD>		
InsuranceFailureIncidentInformation		***0-1***
Description		***1***
<TBD>		
PilotOrPortReportIncidentInformation		***0-1***
Description		***1***
<TBD>		
OtherIncidentInformation		***0-1***
Description		***1***
<TBD>		
<TBD>		
Feedback		***0-1***
FeedbackIdentification		***1***
	FeedbackID	1
	IncidentID	1
FeedbackNotificationStatus		***1***
	UpdateStatus	1
UpdateNotifications		0-99
	UpdateMSRefId	1
FeedbackDistribution		***1***
	DistributionFeedback_yes_no	1
	FeedbackDistributionToFlagState	0-1
FeedbackRecipient		0-99
	RecipientCountry	1
AuthorityReportingAction		***1***
SSNUserIdentifier		0-1
	SSNUserID	1
IdentificationOfAuthority		0-1
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1

MS2SSN_IncidentDetail_Not - Elements			Attributes	Occ
		ReportActionDocument		***0-1***
		Base64Details		1
			DocType	1
			Base64Content	1
		ReportActionDetails		***0-1***
			DateTimeReportAction	1
			Details	1
		<TBD>		-

MS2SSN_ IncidentDetail_ Not Business Rules

The following table describes the MS2SSN_IncidentDetail_Not XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
Header	***1***	**Header Node**
Version	1	none
TestId	0-1	none
MSRefId	1	The MSRefId must be unique
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	none
To	1	none
Body	***1***	**Body Node**
Notification	***1***	**Notification Node**
Incident	***0-1***	**Incident Node.** **Not allowed if Feedback element is provided**
IncidentIdentification	***1***	**Incidentidentification Node**
Type	1	The same “type” should be maintained during the overall updating process
IncidentID	1	The IncidentID must be unique per national SSN system (e.g. after an event such as a collision a SITREP and a POLREP are issued by a MS. The two IRs will have two different IncidentID). Updates of information related to the same incident report message must be sent with the same IncidentID of the original message (e.g. after the collision, the reporting authority sends an update for the SITREP. In such a case the update will quote the same IncidentID of the original SITREP).
ReportSequence	0-1	none
AssociatedIncidentReport	***0-99***	**AssociatedIncidentReport Node**
AssociatedIncidentID	1	none
IncidentNotificationStatus	***1***	**IncidentNotificationStatus element node**
UpdateStatus	1	Values of UpdateStatus are “N” for new incident reports, “U” for updates of incident reports, and “D” for deletion of incident reports.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
		The first message regarding an incident must have UpdateStatus="N" (New). All messages with UpdateStatus=”N” with an IncidentID already registered in SSN are rejected. **The following rules should be considered whenever a message is sent with UpdateStatus="U" (Update):** 1. An update message should always include all the details of the Incident Report: -Elements to be updated with theirattributes, - Additional elements, - Elements previously provided with their attributes. 2.Non updated elements andattributes will be kept unchanged in the SSN database. 3. To remove a non-mandatory text attribute, an empty string must be quoted (“”). 4.If an update message is received by SSN before the original message has been registered in SSN (e.g. due to some error or technical delay), SSN nevertheless registers the update message and keeps it in its database. A warning is sent by e-mail to the 24/7 NCA. 5. UpdateStatus="U" can only be used by theoriginator (attribute “From” of Header) of the Incident Report. StatusReason="D" (delete) can only be used by the originator (attribute “From” of Header) of the Incident Report. IncidentID of a deleted message cannot be reused. A “Deletion” of a previously sent message is distributed. If “D” is provided, SSN will automatically forward it to the recipients of the last update.
UpdateNotifications	0-99	Mandatory in case of UpdateStatus=”U” (update) or "D" (delete). Used to identify the list of message(s) that were previously sent regarding that Incident Report (same IncidentID).
UpdateMSRefId	1	None
IRDistributionDetails	***1***	**DistributionDetails element node.**
DistributionIR_yes_no	1	2 values “Y” or “N”. If "Y" is quoted then IRDistributionToFlagState and/or at least one IRRecipient must be quoted.
IRDistributionToFlagState	0-1	If “Y”, SSN automatically distributes the incident report to the flag States ofships involved in the incident and flying the flag of a SSN participant (SSN uses the Flag attribute in IRVessel_IdentityVerified).
IRRecipient	0-99	None
RecipientCountry	1	None
ActionRequestedDetail	0-1	Content of the action requested.
IRVesselIdentificationList	***0-1***	**IRVesselIdentificationList element node.** **To be providedif one or several ships are involved in the incident.** **Mandatory if Incident Type is:** **- WasteIncident** **- FailedNotification** **- VTSRulesInfringement** **- BannedShip** **- InsuranceFailure** **- PilotOrPortReport**

MS2SSN_IncidentDetail_Not - Item	Occ	Description
IRVesselIdentification	***1-99***	**IRVesselIdentification element node. To be used to identify a single ship.**
IRVessel_IdentityVerified	***0-1***	**IRVessel_IdentityVerified element node. Mandatory if IRVessel_IdentityNotFullyVerified not provided. Not accepted if IRVessel_IdentityNotFullyVerified provided.**
IMONumber	0-1	Mandatory if MMSINumber or IRNumber_FishingVessel not given.
MMSINumber	0-1	Mandatory if IMONumber or IRNumber_FishingVessel not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
IRNumber_FishingVessel	0-1	Mandatory if IMONumber or MMSINumber not given.
IRVessel_IdentityNotFullyVerified	***0-1***	**IRVessel_IdentityNotFullyVerified element node. Mandatory if IRVessel_IdentityVerified not provided. Not accepted if IRVessel_IdentityVerified provided. If only one ship is identified in the Incident Report and if IRVessel_IdentityNotFullyVerified, the Incident Report will be recorded in SSN as Incident Report with non identified vessel.**
DescribeVessel	1	
IRVoyageInformation	***0-1***	**VoyageInformation element node.**
PortofDeparture	0-1	none
PortOfDestination	0-1	none
TotalPersonsOnBoard	0-1	none
CargoManifest	***0-1***	**CargoManifest element node**
UrlDetails	***0-1***	**UrlDetails element node. Mandatory if ContactDetails not provided**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	***0-1***	**ContactDetails element node. Mandatory if UrlDetails not provided.**
LastName	0-1	none
FirstName	0-1	none
LoCode	1	Location code of the Maritime Authority. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
ShipPositionAtTimeOfIncident	***0-1***	**ShipPositionAtTimeOfIncident element node. Mandatory for Incident type is SITREP with vessel identified (element IRVessel_IdentityVerified is provided)**
GeoCoordinates	***0-1***	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided.**
Longitude	1	none
Latitude	1	none
Area	***0-1***	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
BearingDistance	***0-1***	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
ShipPositionAtTimeOfReporting	***0-1***	**ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTimeOfIncident**
GeoCoordinates	***0-1***	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	***0-1***	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	***0-1***	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
AuthorityReportingIncident	***1***	**Defines the authority responsible for the reporting of theIncident Report (e.g. VTS, MRCC etc…). Recommendation: Identification should preferably be done with the SSNUserID.**
SSNUserIdentifier	***0-1***	SSN user identification. Not allowed if IdentificationOfAuthority is provided.
SSNUserID	1	The authority ID or web-user ID as defined by the data provider in the SSN central management console.
IdentificationOfAuthority	0-1	Identification of authority. Not allowed if SSNUserIdentifier is provided.
AuthorityName	1	None
LoCode	1	None
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
IncidentDetailsDocument	***0-1***	**IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as complementary information of IncidentDetails.**
Base64Details	***1***	Base64Details element node. Indicates the document containing the notification details.
DocType	1	Extensions are not case sensitive
Base64Content	1	none
IncidentDetails	***0-1***	**IncidentDetails element node. Only 1 child element is allowed. Mandatory if IncidentDetailsDocument not provided.**
WasteIncidentInformation	***0-1***	**WasteIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="Waste".**
NonComplianceInformation	***1***	**NonComplianceInformation element node.**
WasteDeliveryDuePort	1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
ETD	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
InspectionReason	1	none
InspectionInformation	***0-1***	**InspectionInformation element node.**
Deficiencies	1	none
ActionTaken	1	none
InspectionAuthority	***1***	**InspectionAuthority element node.**
Name	1	none
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	0-1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
SITREPIncidentInformation	***0-1***	**SITREPIncidentInformation element node, child of IncidentDetails.** **Not allowed if another child element of IncidentDetails is specified.** **Only valid if IncidentIdentification / Type="SITREP".**
SITREPInformation	***1***	**SITREPInformation element node**
C_Situation	***1***	**C_Situation element node**
MessageType	1	none
NotifiedAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
Nature	1	none
D_NumberOfPersonsAtRisk	0-1	Can be 'zero' when SITREP refers to a vessel that has been fully evacuated. If the number of persons at risk is unknown, the dummy value "99999" should be used.
E_AssistanceRequired	0-1	none
F_CoordinatingAuthority	0-1	If "AuthorityReportingIncident" is quoted then "F_CoodinatingAuthority" is not mandatory.
G_CasualtyDescription	0-1	none
H_WeatherOnScene	0-1	none
J_InitialActionTaken	1	none
K_SearchArea	0-1	none
L_CoordinatingInstructions	0-1	none
M_FuturePlans	0-1	none
N_AdditionalInformation	0-1	none
POLREPIncidentInformation	***0-1***	**POLREPIncidentInformation element node, child of IncidentDetails.** **Not allowed if another child element of IncidentDetails is specified.** **Only valid if IncidentIdentification / Type="POLREP".**
POLREPInformation	***1***	**POLREPInformation element node.** At Least one of the three elements POLWARN, POLINF or POLFAC has to be provided.
POLWARN	***0-1***	**POLWARN element node.** Initial notice (a first information or a warning of a casualty or the presence of oil slicks or harmful substances. Mandatory if POLINF or POLFAC not provided.
P1_DateTime	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
P3_Incident	0-1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
P4_Outflow	0-1	none
P5_Acknowledge	0-1	none
P2_Position	***1***	**P2_Position element node. Indicates the main position of the pollution.**
GeoCoordinates	0-1	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided.**
Longitude	1	none
Latitude	1	none
Area	0-1	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	0-1	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
POLINF	***0-1***	**POLINF element node. Detailed supplementary report.** Mandatory if POLWARN or POLFAC not provided.
P40_DateTime	0-1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
P41_PollutionPosition	0-1	Non-mandatory only if "P2_Position" is quoted
P42_PollutionChars	0-1	none
P43_PollutionSource	0-1	none
P44_Wind	***0-1***	**Wind element node.**
Speed	1	Indicates wind speed in m/sec.
Direction	1	The direction always indicates from where the wind is blowing.
P45_Tide	***0-1***	**Tide element node.**
Speed	1	Indicates current speed of the tide in knots and tenths of knots.
Direction	1	The direction always indicates the direction in which the current tide is flowing.
P46_SeaState	***0-1***	**SeaState element node.**
WaveHeight	1	none
Visibility	0-1	none
P47_PollutionDrift	***0-1***	**PollutionDrift element node.**
DriftCourse	1	Indicates the drift course of pollution in degrees
DriftSpeed	1	Indicates the drift speed of pollution in knots and tenths of knots. In cases of air pollution (gas cloud), drift speed should be indicated in m/sec
P48_PollutionEffectForecast	0-1	none
P49_ObserverIdentity	***0-99***	**ObserverIdentity element node.** Identifies who has reported the incident. If it is a ship, name, home port, flag and call sign must be given. Ships on-scene could also be indicated under this item by name, home port, flag and call sign, especially if the polluter cannot be identified and the spill is considered to be of recent origin.
Name	1	none
HomePort	0-1	none
Flag	0-1	none
CallSign	0-1	none
P50_ActionTaken	1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
P51_Photographs	0-1	none
P52_InformedStateOrg	***0-99***	**InformedStateOrg element node.**
Name	1	Name of other states and organisations informed
P53_OtherInformation	0-1	none
P60_Acknowledge	0-1	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority
POLFAC	***0-1***	**POLFAC element node. For requests for assistance from other Contracting Parties, as well as for operational matters in the assistance situation.** **Mandatory if POLWARN or POLINF not provided.**
P80_DateTime	0-1	If it varies from POLWARN and POLINF. Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
P81_RequestForAssistance	0-1	none
Assistance	***0-1***	**Assistance element node. If "Assistance" is quoted then at least one of the 3 attributes ("P82_Cost", "P83_PreArrangements", "P84_Delivery") is mandatory**
P82_Cost	0-1	none
P83_PreArrangements	0-1	none
P84_Delivery	0-1	none
P85_InformedStateOrg	***0-99***	**InformedStateOrg element node. Only if different from POLINF**
Name	1	Name of other states and organisations informed
P86_ChangeOfCommand	0-1	none
P87_ExchangeOfInformation	0-1	none
P88_OtherInformation	0-1	none
P99_Acknowledge	0-1	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority
LostFoundObjectIncidentInformation	***0-1***	**LostFoundObjectIncidentInformation element node, child of IncidentDetails.** **Not allowed if another child element of IncidentDetails is specified.** **Only valid if IncidentIdentification / Type="LostFoundContainers".**
LostFoundObjectInformation	***1***	**LostFoundObjectInformation element node.**
DateTimeReportLostFoundObject	1	none
P1_ReportType	1	none
P2_ShipOrObserverIdentification	***0-1***	**P2_ShipOrObserverIdentification element node.**
IMONumber	0-1	At least one of IMONumber, MMSINumber, CallSign, ShipName, IRNumber_FishingVessel or Other must be provided.
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
IRNumber_FishingVessel	0-1	
Other	0-1	
ObjectInformation	***1***	**ObjectInformation element node.**
P3_ObjectPosition	***1***	**P3_ObjectPosition element node.** Last seen position of the object at sea, or last position of ship when the object has presumably been lost
GeoCoordinates	***0-1***	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided.**
Longitude	1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
Latitude	1	none
Area	***0-1***	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	***0-1***	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark.
Distance	1	Indicated in nautical miles.
Mark	1	none
ObjectDetails	***0-1***	**ObjectDetails element node**
P4_NumberOfObjects	0-1	
P5_TypeOfGoods	0-1	none
Object	***0-99***	**Object element node.**
Description	1	none
CargoLeaking	0-1	none
Wind	***0-1***	**Wind element node.**
Speed	1	Indicates wind speed in m/sec.
Direction	1	The direction always indicates from where the wind is blowing.
Tide	***0-1***	**Tide element node.**
Speed	1	Indicates current speed of the tide in knots and tenths of knots.
Direction	1	The direction always indicates the direction in which the current tide is flowing.
SeaState	***0-1***	**SeaState element node.**
WaveHeight	1	none
Visibility	0-1	none
ObjectDrift	***0-1***	**ObjectDrift element node.**
DriftCourse	1	Indicates the drift course of containers in degrees
DriftSpeed	1	Indicates the drift speed of containers in knots and tenths of knots. In cases of air pollution (gas cloud), drift speed should be indicated in m/sec
FailedNotificationIncidentInformation	***0-1***	**FailedNotificationIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="FailedNotification".**
Description	***1***	Description of the incident (free text)
<TBD>		
VTSRulesInfringementIncidentInformation	***0-1***	**VTSRulesInfringementIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="VTSRulesInfringement".**
Description	***1***	Description of the incident (free text)
<TBD>		
BannedShipIncidentInformation	***0-1***	**BannedShipIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="BannedShip".**
Description	***1***	Description of the incident (free text)
<TBD>		

MS2SSN_IncidentDetail_Not - Item	Occ	Description
InsuranceFailureIncidentInformation	***0-1***	**InsuranceFailureIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="InsuranceFailure".**
Description	***1***	Description of the incident (free text)
<TBD>		
PilotOrPortReportIncidentInformation	***0-1***	**PilotOrPortReportIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="PilotOrPortReport".**
Description	***1***	Description of the incident (free text)
<TBD>		
OtherIncidentInformation	***0-1***	**OtherIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="Others".**
Description	***1***	Description of the incident (free text)
<TBD>		
<TBD>		
Feedback	***0-1***	**Feedback element node. Not allowed if Incidentelement is provided.**
FeedbackIdentification	***1***	**FeedbackIdentification element node.**
FeedbackID	1	The FeedbackID must be unique per national SSN system.
IncidentID	1	Feedback of information related to an incident report message must be sent with the IncidentID of the original Incident.
FeedbackNotificationStatus	***1***	**FeedbackNotificationStatus element note.**
UpdateStatus	1	Values of UpdateStatus are “N” for new feedback, “U” for updates of feedback, and “D” for deletion of feedback. The first message regarding a feedback must have the UpdateStatus="N" (New). All messages with UpdateStatus=”N” with a FeedbackID already registered in SSN are rejected. **The following rules should be considered whenever a message is sent with UpdateStatus="U" (Update)** 1. An update message should always include all the details of the feedback: -Elements to be updated with their attributes, - Additional elements, - Elements previously provided with their attributes. 2. Non updated elements and attributes will be kept unchanged in the SSN database. 3. To remove a non-mandatory text attribute, an empty string must be quoted (“”). 4. If an update message is received by SSN before the original message has been registered in SSN (e.g. due to some error or technical delay), SSN nevertheless registers the update message and keeps it in its database. A warning is sent by e-mail to the 24/7 NCA. 5. UpdateStatus="U" can only be used by the originator (attribute “From” of Header) of the Feedback.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
		StatusReason="D" (delete) can only be used by the originator (attribute “From” of Header) of the Feedback. The deletion of a feedback does not delete the original Incident Report and its updates. FeedbackID of a deleted message cannot be reused.
UpdateNotifications	0-99	Mandatory in case of UpdateStatus=”U” (update) or "D" (delete). Used to identify the list of message(s) that were previously sent regarding that Feedback (same FeedbackID).
UpdateMSRefId	1	None
FeedbackDistribution	***1***	FeedbackDistribution element node.
DistributionFeedback_yes_no	1	2 values Y or N. If "Y" is quoted then FeedbackDistributionToFlagState and/or at least one FeedbackRecipient must be quoted.
FeedbackDistributionToFlagState	0-1	If “Y”, SSN automatically distributes the incident report to the flag States of ships involved in the incident and flying the flag of a SSN participant (SSN uses the Flag attribute in IRVessel_IdentityVerified from the Incident element).
FeedbackRecipient	0-99	None
RecipientCountry	1	None
AuthorityReportingAction	***1***	**Defines the authority responsible for the reporting of thefeedback.** **Recommendation: identification should preferably be done with the SSNUserID.**
SSNUserIdentifier	***0-1***	SSN user identification. Not allowed if IdentificationOfAuthority is provided.
SSNUserID	1	The authority ID or web-user ID as defined by the data provider in the SSN central management console.
IdentificationOfAuthority	0-1	Identification of authority. Not allowed if SSNUserIdentifier is provided.
AuthorityName	1	none
LoCode	1	Location code of the Maritime Authority. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
Fax	1	Only numbers and the symbol “+” are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
ReportActionDocument	***0-1***	**ReportActionDocument element node**
Base64Details	***1***	Base64Details element node. Indicatesthe location of the document containing the details.
DocType	1	Extensions are not case sensitive
Base64Content	1	none
ReportActionDetails	***0-1***	**ReportActionDetails element node**
DateTimeReportAction	1	none
Details	1	Description of the reported action (free text)
<TBD>		

Example of an IncidentDetail Notification

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <Header From="GRPIR01" MSRefId="MS2SSN_IR_Not_20180123_25"
        SentAt="2018-01-23T09:30:00Z" To="SafeSeaNet" Version="4.0" />
    <Body>
        <Notification>
            <Incident>
                <IncidentIdentification IncidentID="GRlnAmOB1u6l8Hpb9" Type="POLREP" />
                <IncidentNotificationStatus UpdateStatus="U">
                    <UpdateNotifications UpdateMSRefId="MS2SSN_IR_Not_20150605_08" />
                </IncidentNotificationStatus>
                <IRDistributionDetails DistributionIR_yes_no="Y"
                    IRDistributionToFlagState="Y">
                    <IRRecipient RecipientCountry="DE" />
                </IRDistributionDetails>
                <IRVesselIdentificationList>
                    <IRVesselIdentification>
                        <IRVessel_IdentityVerified CallSign="LMTR"
                            IMONumber="8022913" MMSINumber="258319000" ShipName="GAYSER SENIOR" />
                        <ShipPositionAtTimeOfIncident>
                            <GeoCoordinates Latitude="12" Longitude="12" />
                        </ShipPositionAtTimeOfIncident>
                    </IRVesselIdentification>
                </IRVesselIdentificationList>
                <AuthorityReportingIncident>
                    <SSNUserIdentifier SSNUserID="thanosId" />
                </AuthorityReportingIncident>
                <IncidentDetails>
                    <POLREPIncidentInformation>
                        <POLREPInformation>
                            <POLINF P50_ActionTaken="taken">
                                <P49_ObserverIdentity CallSign="csign1"
                                    Flag="GR" HomePort="port1" Name="name1" />
                                <P49_ObserverIdentity HomePort="port3"
                                    Name="name3" />
                                <P52_InformedStateOrg Name="1" />
                            </POLINF>
                        </POLREPInformation>
                    </POLREPIncidentInformation>
                </IncidentDetails>
            </Incident>
        </Notification>
    </Body>
</MS2SSN_IncidentDetail_Not>
```

SSN2MS_IncidentDetail_Tx.xml message

Introduction

The **SSN2MS_IncidentDetail_Tx** message is sent (distributed) by SafeSeaNet in accordance with the distribution list included in the MS2SNN_IncidentDetail notification.

The **SSN2MS_IncidentDetail_Tx** message contains the consolidated details regarding the Incident Report (Incident details and all feedbacks received).

Note: in the case where an incident report is deleted by the data provider (UpdateStatus = "D"), a **SSN2MS_IncidentDetail_Tx** message is distributed to all recipients which had received the Incident Report.

SSN2MS_ IncidentDetail_Tx Message description

The following table describes the SSN2MS_IncidentDetail_Tx XML message used for the transaction.

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
Body		***1***
DistributedDetails		***1***
Incident		***0-1***
IncidentIdentification		***1***
	Type	1
	IncidentID	1
	ReportSequence	0-1
AssociatedIncidentReport		0-99
	AssociatedIncidentID	1
IncidentNotificationStatus		***1***
	UpdateStatus	1
IRDistributionDetails		***0-1***
	IRDistributionToFlagState	0-1
IRRecipient		0-99
	RecipientCountry	1
	ActionRequestedDetail	0-1

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
IRVesselIdentificationList		***0-1***
IRVesselIdentification		***1-99***
IRVessel_IdentityVerified		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
IRVessel_IdentityNotFullyVerified		***0-1***
	DescribeVessel	1
IRVoyageInformation		***0-1***
	PortofDeparture	0-1
	PortOfDestination	0-1
	TotalPersonsOnBoard	0-1
CargoManifest		***0-1***
	Details	1
ShipPositionAtTimeOfIncident		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
ShipPositionAtTimeOfReporting		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
AuthorityReportingIncident		***1***
SSNUserIdentifier		0-1
	SSNUserID	1

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
IdentificationOfAuthority		0-1
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1
IncidentDetailsDocument		***0-1***
Base64Details		***1***
	DocType	1
	Base64Content	1
IncidentDetails		***0-1***
WasteIncidentInformation		***0-1***
NonComplianceInformation		***1***
	WasteDeliveryDuePort	1
	ETD	1
	InspectionReason	1
InspectionInformation		***0-1***
	Deficiencies	1
	ActionTaken	1
InspectionAuthority		***1***
	Name	1
	Phone	1
	Fax	0-1
	EMail	0-1
SITREPIncidentInformation		***0-1***
SITREPInformation		***1***
C_Situation		***1***
	MessageType	1
	NotifiedAt	1
	Nature	1
	D_NumberOfPersonsAtRisk	0-1
	E_AssistanceRequired	0-1
	F_CoordinatingAuthority	0-1
	G_CasualtyDescription	0-1
	H_WeatherOnScene	0-1
	J_InitialActionsTaken	1
	K_SearchArea	0-1
	L_CoordinatingInstructions	0-1
	M_FuturePlans	0-1
	N_AdditionalInformation	0-1

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
POLREPIncidentInformation		***0-1***
POLREPInformation		***1***
POLWARN		***0-1***
P1_DateTime		1
P3_Incident		0-1
P4_Outflow		0-1
P5_Acknowledge		0-1
P2_Position		***1***
GeoCoordinates		0-1
	Longitude	1
	Latitude	1
Area		0-1
	GeographicalArea	1
BearingDistance		0-1
	Bearing	1
	Distance	1
	Mark	1
POLINF		***0-1***
P40_DateTime		0-1
P41_PollutionPosition		0-1
P42_PollutionChars		0-1
P43_PollutionSource		0-1
P44_Wind		***0-1***
	Speed	1
	Direction	1
P45_Tide		***0-1***
	Speed	1
	Direction	1
P46_SeaState		***0-1***
	WaveHeight	1
	Visibility	0-1
P47_PollutionDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
P48_PollutionEffectForecast		0-1
P49_ObserverIdentity		***0-99***
	Name	1
	HomePort	0-1
	Flag	0-1

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
	CallSign	0-1
P50_ActionTaken		1
P51_Photographs		0-1
P52_InformedStateOrg		***0-99***
	Name	1
P53_OtherInformation		0-1
P60_Acknowledge		0-1
POLFAC		***0-1***
P80_DateTime		0-1
P81_RequestForAssistance		0-1
Assistance		***0-1***
	P82_Cost	0-1
	P83_PreArrangements	0-1
	P84_Delivery	0-1
P85_InformedStateOrg		***0-99***
	Name	1
P86_ChangeOfCommand		0-1
P87_ExchangeOfInformation		0-1
P88_OtherInformation		0-1
P99_Acknowledge		0-1
LostFoundObjectIncidentInformation		***0-1***
LostFoundObjectInformation		***1***
	DateTimeReportLostFoundObject	1
	P1_ReportType	1
P2_ShipOrObserverIdentification		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
	Other	0-1
ObjectInformation		***1***
P3_ObjectPosition		***1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
	Bearing	1
	Distance	1
	Mark	1
ObjectDetails		**0-1**
	P4_NumberOfObjects	0-1
	P5_TypeOfGoods	0-1
Object		***0-99***
	Description	1
	CargoLeaking	0-1
Wind		***0-1***
	Speed	1
	Direction	1
Tide		***0-1***
	Speed	1
	Direction	1
SeaState		***0-1***
	WaveHeight	1
	Visibility	0-1
ObjectDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
FailedNotificationtIncidentInformation		***0-1***
Description		***1***
<TBD>		
VTSRulesInfringementIncidentInformation		***0-1***
Description		***1***
<TBD>		
BannedShipIncidentInformation		***0-1***
Description		***1***
<TBD>		
InsuranceFailureIncidentInformation		***0-1***
Description		***1***
<TBD>		
PilotOrPortReportIncidentInformation		***0-1***
Description		***1***
OtherIncidentInformation		***0-1***
Description		***1***
<TBD>		
<TBD>		
FeedbackList		**0-1**
FeedbackInformation		***1-99***

SSN2MS_IncidentDetail_Tx - Elements	Attributes	Occ
FeedbackIdentification		***1***
	FeedbackID	1
	IncidentID	1
FeedbackNotificationStatus		1
	UpdateStatus	1
FeedbackDistribution		***0-1***
	FeedbackDistributionToFlagState	0-1
FeedbackRecipient		0-99
	RecipientCountry	1
AuthorityReportingAction		***1***
SSNUserIdentifier		***0-1***
	SSNUserID	1
IdentificationOfAuthority		***0-1***
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1
ReportActionDetails		***0-1***
	DateTimeReportAction	1
	Details	1
ReportActionDocument		***0-1***
Base64Details		***1***
	DocType	1
	Base64Content	1
<TBD>		

SSN2MS_ IncidentDetail_ Tx Business Rules

The following table describes the SSN2MS_IncidentDetail_Tx XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
Header	***1***	**Header Node**
Version	1	none
TestId	0-1	none
SSNRefId	1	The SSNRefId must be unique
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	none
To	1	none
Body	***1***	**Body Node**
DistributedDetails	***1***	**DistributedDetails Node**
Incident	***0-1***	**Incident Node**
IncidentIdentification	***1***	**Incidentidentification Node**
Type	1	From original MS2SSNIncidentDetail_Not
IncidentID	1	
ReportSequence	0-1	
AssociatedIncidentReport	0-99	
AssociatedIncidentID	1	
IncidentNotificationStatus	***1***	**IncidentNotificationStatus element note.**
UpdateStatus	1	From original MS2SSNIncidentDetail_Not.
IRDistributionDetails	***0-1***	**IRDistributionDetails element node.**
IRDistributionToFlagState	0-1	From original MS2SSNIncidentDetail_Not.
IRRecipient	***0-99***	
RecipientCountry	1	
ActionRequestedDetail	0-1	
IRVesselIdentificationList	***0-1***	From original MS2SSNIncidentDetail_Not
IRVesselIdentification	***1-99***	IR**VesselIdentification element node**. To be used to identify a single ship.
IRVessel_IdentityVerified	***0-1***	IRVessel_IdentityVerified element node. Mandatory if IRVessel_IdentityNotFullyVerified not provided. Not accepted if IRVessel_IdentityNotFullyVerified provided. The message identifier attributes (IMO number, MMSI, Call Sign, ship name) have to be checked against a reference ship database
IMONumber	0-1	From original MS2SSNIncidentDetail_Not
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
IRNumber_FishingVessel	0-1	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
IRVessel_IdentityNotFullyVerified	***0-1***	IR**Vessel_IdentityNotFullyVerified element node.** Mandatory if IRVessel_IdentityVerified not provided.
DescribeVessel	1	From original MS2SSNIncidentDetail_Not
IRVoyageInformation	***0-1***	**IRVoyageInformation element node.**
PortofDeparture	0-1	From original MS2SSNIncidentDetail_Not.
PortOfDestination	0-1	
TotalPersonsOnBoard	0-1	
CargoManifest	***0-1***	**CargoManifest element node**
Details	1	If CargoManifest element node provided in MS2SSN_IncidentDetail_Not, this information is only available upon request to the central SSN system. In this case, the filed will quote: "Cargo manifest available upon request to central SSN system"
ShipPositionAtTimeOfIncident	***0-1***	**ShipPositionAtTimeOfIncident. Mandatory for Incident type SITREP with vessel identified**
GeoCoordinates	***0-1***	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
Area	***0-1***	
GeographicalArea	1	
BearingDistance	***0-1***	
Bearing	1	
Distance	1	
Mark	1	
ShipPositionAtTimeOfReporting	***0-1***	**ShipPositionAtTimeOfReporting element node. Not provided if the position is the same as ShipPositionAtTimeOfIncident**
GeoCoordinates	***0-1***	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
Area	***0-1***	
GeographicalArea	1	
BearingDistance	***0-1***	
Bearing	1	
Distance	1	
Mark	1	
AuthorityReportingIncident	***1***	**AuthorityReportingIncident element node.**
SSNUserIdentifier	***0-1***	SSN user identification. If provided, IdentificationOfAuthority will not be provided.
SSNUserID	1	From original MS2SSNIncidentDetail_Not
IdentificationOfAuthority	0-1	Identification of authority. If provided, *SSNUserIdentifier* will not be provided.
AuthorityName	1	In case the Authority is defined by its UserID in the original IR notification , the attribute quotes the value registered in the SSN central system for the Authority
LoCode	1	In case the Authority is defined by its UserID in the original IR notification , the attribute quotes the value registered in the SSN central system for the Authority

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
Phone	1	Only numbers and the symbol "+" are allowed. No spaces allowed. In case the Authority is defined by its UserID in the original IR notification , the attribute quotes the value registered in the SSN central system for the Authority
Fax	1	Only numbers and the symbol "+" are allowed. No spaces allowed. In case the Authority is defined by its UserID in the original IR notification , the attribute quotes the value registered in the SSN central system for the Authority
EMail	0-1	Email address of the contact person. In case the Authority is defined by its UserID in the original IR notification , the attribute quotes the value registered in the SSN central system for the Authority
IncidentDetailsDocument	***0-1***	**IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as complementary information of IncidentDetails.**
Base64Details	***1***	Base64Details element node, child of IncidentDetailsDocument. Element indicating the document containing the notification details is embedded in the message in Base64Details.
DocType	1	From original MS2SSNIncidentDetail_Not
Base64Content	1	
IncidentDetails	***0-1***	**IncidentDetails element node. Only 1 element node might be given. Mandatory if IncidentDetailsDocument not provided.**
WasteIncidentInformation	***0-1***	**WasteIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
NonComplianceInformation	***1***	From original MS2SSNIncidentDetail_Not
WasteDeliveryDuePort	1	
ETD	1	
InspectionReason	1	
InspectionInformation	***0-1***	
Deficiencies	1	
ActionTaken	1	
InspectionAuthority	***1***	
Name	1	
Phone	1	
Fax	0-1	
EMail	0-1	
SITREPIncidentInformation	***0-1***	**SITREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
SITREPInformation	***1***	From original MS2SSNIncidentDetail_Not
C_Situation	***1***	
MessageType	1	
NotifiedAt	1	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
Nature	1	
D_NumberOfPersonsAtRisk	0-1	
E_AssistanceRequired	0-1	
F_CoordinatingAuthority	0-1	
G_CasualtyDescription	0-1	
H_WeatherOnScene	0-1	
J_InitialActionsTaken	1	
K_SearchArea	0-1	
L_CoordinatingInstructions	0-1	
M_FuturePlans	0-1	
N_AdditionalInformation	0-1	
POLREPIncidentInformation	***0-1***	**POLREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
POLREPInformation	***1***	From original MS2SSNIncidentDetail_Not
POLWARN	***0-1***	
P1_DateTime	1	
P3_Incident	0-1	
P4_Outflow	0-1	
P5_Acknowledge	0-1	
P2_Position	***1***	
GeoCoordinates	0-1	
Longitude	1	
Latitude	1	
Area	0-1	
GeographicalArea	1	
BearingDistance	0-1	
Bearing	1	
Distance	1	
Mark	1	
POLINF	***0-1***	
P40_DateTime	0-1	
P41_PollutionPosition	0-1	
P42_PollutionChars	0-1	
P43_PollutionSource	0-1	
P44_Wind	***0-1***	
Speed	1	
Direction	1	
P45_Tide	***0-1***	
Speed	1	
Direction	1	
P46_SeaState	***0-1***	
WaveHeight	1	
Visibility	0-1	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
P47_PollutionDrift	***0-1***	
DriftCourse	1	
DriftSpeed	1	
P48_PollutionEffectForecast	0-1	
P49_ObserverIdentity	***0-99***	
Name	1	
HomePort	0-1	
Flag	0-1	
CallSign	0-1	
P50_ActionTaken	1	
P51_Photographs	0-1	
P52_InformedStateOrg	***0-99***	
Name	1	
P53_OtherInformation	0-1	
P60_Acknowledge	0-1	
POLFAC	***0-1***	
P80_DateTime	0-1	
P81_RequestForAssistance	0-1	
Assistance	***0-1***	
P82_Cost	0-1	
P83_PreArrangements	0-1	
P84_Delivery	0-1	
P85_InformedStateOrg	***0-99***	
Name	1	
P86_ChangeOfCommand	0-1	
P87_ExchangeOfInformation	0-1	
P88_OtherInformation	0-1	
P99_Acknowledge	0-1	
LostFoundObjectIncidentInformation	***0-1***	**LostFoundObjectIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
LostFoundObjectInformation	***1***	From original MS2SSNIncidentDetail_Not
DateTimeReportLostFoundObject	1	
P1_ReportType	1	
P2_ShipOrObserverIdentification	***0-1***	
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
IRNumber_FishingVessel	0-1	
Other	0-1	
ObjectInformation	***1***	
P3_ObjectPosition	***1***	
GeoCoordinates	***0-1***	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
Longitude	1	
Latitude	1	
Area	***0-1***	
GeographicalArea	1	
BearingDistance	***0-1***	
Bearing	1	
Distance	1	
Mark	1	
ObjectDetails	***0-1***	
P4_NumberOfObjects	0-1	
P5_TypeOfGoods	0-1	
Object	***0-99***	
Description	1	
CargoLeaking	0-1	
Wind	***0-1***	
Speed	1	
Direction	1	
Tide	***0-1***	
Speed	1	
Direction	1	
SeaState	***0-1***	
WaveHeight	1	
Visibility	0-1	
ObjectDrift	***0-1***	
DriftCourse	1	
DriftSpeed	1	
FailedNotificationIncidentInformation	***0-1***	**FailedNotificationIncidentInformationelement node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	
VTSRulesInfringementIncidentInformation	***0-1***	**VTSRulesInfringementIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	
BannedShipIncidentInformation	***0-1***	**BannedShipIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	
InsuranceFailureIncidentInformation	***0-1***	**InsuranceFailureIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
PilotOrPortReportIncidentInformation	***0-1***	**PilotOrPortReportIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	
OtherIncidentInformation	***0-1***	**OtherIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
Description	***1***	From original MS2SSNIncidentDetail_Not
<TBD>	***-***	
<TBD>	***-***	
FeedbackList	***0-1***	FeedbackList element node.
FeedbackInformation	***1-99***	**Feedback element node. As result of RequestForAction="Y".**
FeedbackIdentification	***1***	**FeedbackIdentification element node.**
FeedbackID	1	Unique identifier of feedback
IncidentID	1	Feedback of information related to an incident report message must be sent with the IncidentID of the original Incident.
FeedbackNotificationStatus	***1***	**FeedbackNotificationStatus element node.**
UpdateStatus	1	From original MS2SSNIncidentDetail_Not.
FeedbackDistribution	***0-1***	**FeedbackDistribution element node.**
FeedbackDistributionToFlagState	0-1	From original MS2SSNIncidentDetail_Not
FeedbackRecipient	***0-99***	
RecipientCountry	1	
AuthorityReportingAction	***1***	**AuthorityReportingAction element node, child of Feedback.**
SSNUserIdentifier	***0-1***	SSN user identification. If provided, IdentificationOfAuthority will not be provided.
SSNUserID	1	From original MS2SSNIncidentDetail_Not
IdentificationOfAuthority	0-1	Identification of authority. If provided, *SSNUserIdentifier* will not be provided.
AuthorityName	1	From original MS2SSNIncidentDetail_Not
LoCode	1	
Phone	1	
Fax	1	
EMail	0-1	
ReportActionDetails	***0-1***	**ReportActionDetails element node**
DateTimeReportAction	1	From original MS2SSNIncidentDetail_Not
Details	1	From original MS2SSNIncidentDetail_Not
ReportActionDocument	***0-1***	**ReportActionDocument element node**
Base64Details	***1***	**Base64Details element node**.
DocType	1	From original MS2SSNIncidentDetail_Not
Base64Content	1	
<TBD>		

Example of an IncidentDetail distribution message

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_IncidentDetail_Tx xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-01-23T12:14:56Z" From="SafeSeaNet"
        To="yt1" SSNRefId="MS2SSN_IR_Not_20180123_25" />
    <Body>
        <DistributedDetails>
            <Incident>
                <IncidentIdentification Type="POLREP"
                    IncidentID="GRlnAmOB1u6l8Hpb9" />
                <IncidentNotificationStatus UpdateStatus="U" />
                <IRDistributionDetails
                    IRDistributionToFlagState="Y">
                    <IRRecipient RecipientCountry="EU" />
                    <IRRecipient RecipientCountry="DE" />
                </IRDistributionDetails>
                <IRVesselIdentificationList>
                    <IRVesselIdentification>
                        <IRVessel_IdentityVerified IMONumber="8022913"
                            MMSINumber="258319000" CallSign="LMTR" ShipName="GAYSER SENIOR" />
                        <ShipPositionAtTimeOfIncident>
                            <GeoCoordinates Longitude="12" Latitude="12" />
                        </ShipPositionAtTimeOfIncident>
                    </IRVesselIdentification>
                </IRVesselIdentificationList>
                <AuthorityReportingIncident>
                    <SSNUserIdentifier SSNUserID="thanosId" />
                </AuthorityReportingIncident>
                <IncidentDetails>
                    <POLREPIncidentInformation>
                        <POLREPInformation>
                            <POLINF P50_ActionTaken="taken">
                                <P49_ObserverIdentity Name="name1"
                                    HomePort="port1" Flag="GR" CallSign="csign1" />
                                <P49_ObserverIdentity Name="name3"
                                    HomePort="port3" />
                                <P52_InformedStateOrg Name="1" />
                            </POLINF>
                        </POLREPInformation>
                    </POLREPIncidentInformation>
                </IncidentDetails>
            </Incident>
        </DistributedDetails>
    </Body>
```

SSN2MS_IncidentDetail_Tx_Ack.xml message

Introduction

The **SSN2MS_IncidentDetail_Tx_Ack.xml** message is sent by SafeSeaNet to the data provider of the MS2SSN_IncidentDetail_Not as a receipt message indicating the consolidated status of the distribution to the list of recipient Member States.

SSN2MS_IncidentDetail_Tx_Ack.xml Message description

The following table describes the SSN2MS_IncidentDetail_Tx_Ack XML message used for the transaction.

SSN2MS_IncidentDetail_Tx_Ack - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
Body		***1***
IncidentReportAcknowledged		***1***
	IncidentID	1
	MsRefIDofIRupdate	0-1
IRorFeedbackRecipients_Ack_list		***1***
SSNparticipant_asIRorFeedbackRecipient		***1-99***
	RecipientCountry	1
SSN_AutorityXML		***0-1***
	SSN_ID_AuthorityXML	1
	RecipientXML_Ack	1
EmailUserslist_Recipient_list		***0-99***
	RecipientUser_Email	1
	RecipientEmail_Ack	1
IRorFeedbackFlagStateRecipient_Ack_list		***0-1***
SSNparticipant_asIRorFeedbackRecipient		***1-99***
	RecipientCountry	1
SSN_AutorityXML		***0-1***
	SSN_ID_AuthorityXML	1
	RecipientXML_Ack	1
EmailUserslist_Recipient_list		***0-99***
	RecipientUser_Email	1
	RecipientEmail_Ack	1

SSN2MS_IncidentDetail_Tx_Ack.xml Business Rules

The following table describes the SSN2MS_IncidentDetail_Tx_Ack XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_IncidentDetail_Tx_Ack - Item	Occ	Description
Header	***1***	**Header Node**
Version	1	none
TestId	0-1	none
SSNRefId	1	The SSNRefId must be unique
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	none
To	1	none
Body	***1***	**Body Node**
IncidentReportAcknowledged	***1***	***none***
IncidentID	***1***	**From original MS2SSNIncidentDetail_Not**
MsRefIDofIRupdate	*0-1*	MsRefID of updates. Mandatory if updates are distributed The message related to this MsRefId could take the following "UpdateStatus" values: "N"or "U" If an Incident Report quotes “N” or “U” in the attribute "UpdateStatus" then the distribution list is the list provided under the element "IRRecipientList" of the notification plus the flag state if it is quoted If a feedback quotes “N” or “U” in the attribute "UpdateStatus" then the distribution list is the list provided under the element "FeedbackRecipient" of the notification plus the flag state if it is quoted
IRorFeedbackRecipients_Ack_list	***1***	***IRorFeedbackRecipients_Ack_list element node.***
SSNparticipant_asIRorFeedbackRecipient	***1-99***	***SSNparticipant_asRecipient element node***
RecipientCountry	1	Identification of the recipient MS
SSN_AutorityXML	0-1	Mandatory in case of XML recipient
SSN_ID_AuthorityXML	1	Identification of the XML recipient Authority
RecipientXML_Ack	1	XML ack status
EmailUserslist_Recipient_list	***0-99***	Mandatory in case of email recipients
RecipientUser_Email	1	Identification of the email recipient user
RecipientEmail_Ack	1	eMail ack status
IRorFeedbackFlagStateRecipient_Ack_list	***0-1***	***IRorFeedbackFlagStateRecipient_Ack_list element node.***
SSNparticipant_asIRorFeedbackRecipient	***1-99***	***SSNparticipant_asIRorFeedbackRecipient element node***
RecipientCountry	1	Identification of the recipient MS
SSN_AutorityXML	0-1	Mandatory in case of XML recipients
SSN_ID_AuthorityXML	1	Identification of the XML recipient Authority
RecipientXML_Ack	1	XML ack status
EmailUserslist_Recipient_list	***0-99***	Mandatory in case of email recipients
RecipientUser_Email	1	Identification of the email recipient user
RecipientEmail_Ack	1	eMail ack status

Example of an IncidentDetail distribution acknowledgement report

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_IncidentDetail_Tx_Ack xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-01-23T12:15:56Z" From="SafeSeaNet"
        To="GRPIR01" SSNRefId="MS2SSN_IR_Not_20180123_25" />
    <Body>
        <IncidentReportAcknowledged IncidentID="GRlnAmOB1u6l8Hpb9"
            MsRefIDofIRupdate="MS2SSN_IR_Not_20180123_25" />
        <IRorFeedbackRecipients_Ack_list>
            <SSNparticipant_asIRorFeedbackRecipient
                RecipientCountry="EU">
                <SSN_AuthorityXML SSN_ID_AuthorityXML="yttest1"
                    RecipientXML_Ack="KO" />
            </SSNparticipant_asIRorFeedbackRecipient>
            <SSNparticipant_asIRorFeedbackRecipient
                RecipientCountry="EU">
                <SSN_AuthorityXML SSN_ID_AuthorityXML="mitsosA"
                    RecipientXML_Ack="KO" />
            </SSNparticipant_asIRorFeedbackRecipient>
            <SSNparticipant_asIRorFeedbackRecipient
                RecipientCountry="DE">
                <EmailUserslist_Recipient_list
                    RecipientUser_Email="Isidora.IOANNOU@intrasoft-intl.com"
                    RecipientEmail_Ack="KO" />
            </SSNparticipant_asIRorFeedbackRecipient>
            <SSNparticipant_asIRorFeedbackRecipient
                RecipientCountry="EU">
                <SSN_AuthorityXML SSN_ID_AuthorityXML="yt1"
                    RecipientXML_Ack="KO" />
            </SSNparticipant_asIRorFeedbackRecipient>
        </IRorFeedbackRecipients_Ack_list>
    </Body>
</SSN2MS_IncidentDetail_Tx_Ack>
```

Section 3.6 - Get Ship Notification Details

Overview

Introduction

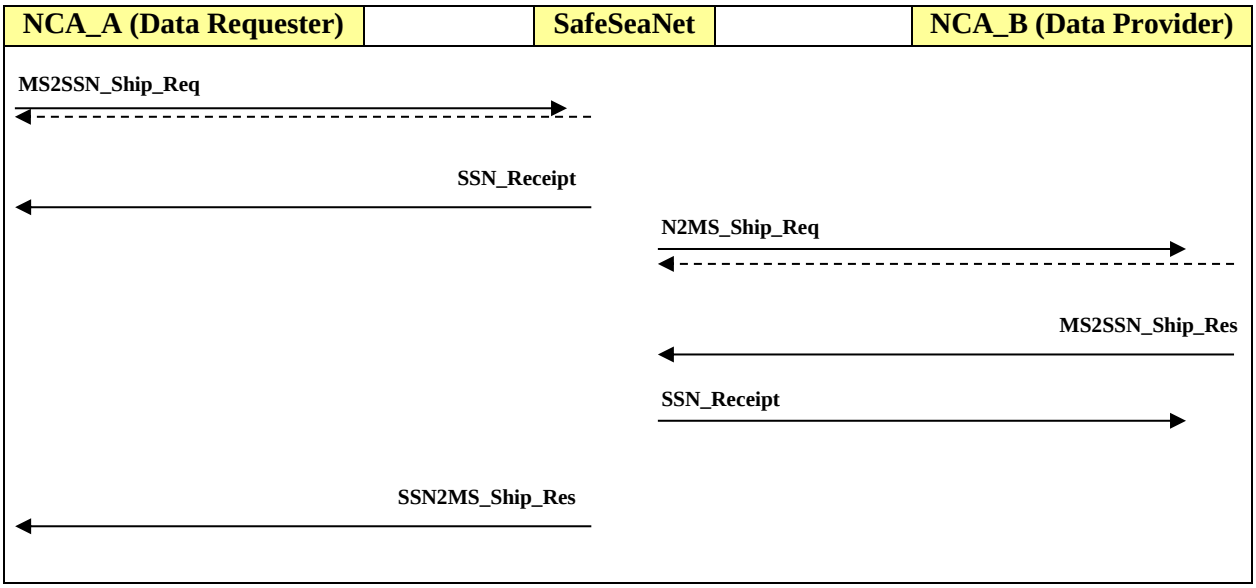
A MemberState may ask SafeSeaNet to get the latest ship notification details for a given vessel. Such service is implemented by exchanging different XML messages between the *data requester*, the SafeSeaNet system and the *data provider*.

The messages are used by the "Information Requests" process (see page 35)

This section describes the different XML messages provided for this transaction.

General flow of the XML messages

The following figure outlines the expected **asynchronous** flow (except for SSN_Receipts which are **synchronous** messages) of XML messages related to this SafeSeaNet XML transaction (assuming the data provider is able to talk XML with SafeSeaNet - please refer to "Data Provider capabilities" at page 23 for more details):



Contents

This section contains the following topics:

MS2SSN_Ship_Req.xml message

Introduction

The **MS2SSN_Ship_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the latest ship notification details about a given vessel.

Please note that such kind of XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_Ship_Req - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		***1***
SearchCriteria		***1***
	ShipNotType	1
	IMONumber	0-1
	MMSINumber	0-1
	MRSIdentification	0-1
	SenderCountryId	0-1

Business Rules

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Ship_Req - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
TimeoutValue	1	
From	1	
To	1	
Body	**1**	
SearchCriteria	**1**	
ShipNotType	1	

MS2SSN_Ship_Req - Item	Occ	Description
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
MRSIdentification	0-1	Allowed only if ShipNotType = MRS
SenderCountryId	0-1	This can be quoted to restrict the request to the Country sending the notification (identified by the Central SSN system on the basis of the attribute "From" in the notification)

Table 2–Detailed business logic for the query

ID	Ship notification type	Information to be included in the RESPONSE message	Mandatory attributes to be quoted for accepting the REQUEST as valid	Optional attributes which can be quoted in the REQUEST
1	ShipNotType=MRS	General rule: the query retrieves the latest MRS information available in SSN (on the basis of “ReportingDateAndTime") for a selected vessel (identified by the “IMONumber” and/or “MMSINumber”) As a subcase of the above rule, the attribute "MRSIdentification" (optional) can be quoted to search the latest information for a specific MRS. The attribute “SenderCountryId” (optional) can be used to restrict the query to notifications sent by a specific MS. The response to this query (SSN2MS_Ship_Details_Res.xml) includes information from both notification and details. The details are provided via XML	- “ShipNotType”, - "IMONumber" or "MMSINumber".	- “MRSIdentification" - “SenderCountryId”
2	ShipNotType=AIS	General rule: the query retrieves the latest AIS information available in SSN (on the basis of “Timestamp") for a selected vessel (identified by the “IMONumber” and/or “MMSINumber”) As a subcase of the above rule, the attribute “SenderCountryId” (optional) can be used to select a specific MS providing the notification. The response to this query (SSN2MS_Ship_Details_Res.xml) includes information from both notification and detail. Details are provided via XML.	- “ShipNotType”, - "IMONumber" or "MMSINumber".	- “SenderCountryId”

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<urn:MS2SSN_Ship_Req xmlns:urn="urn:eu.emsa.ssn">
    <urn:Header From="GRPIR01" MSRefId="V4_SHIP_REQ_20171228_2"
        SentAt="2017-12-28T10:00:00" TestId="testId1" TimeoutValue="0"
        To="SafeSeaNet" Version="4.0" />
    <urn:Body>
        <urn:SearchCriteria IMONumber="7350002"
            MRSIdentification="ADRIREP" ShipNotType="MRS" />
    </urn:Body>
</urn:MS2SSN_Ship_Req>
```

SSN2MS_Ship_Req.xml message

Introduction

The **SSN2MS_Ship_Req.xml** message is sent by SafeSeaNet to the Member State holding the Ship notification details (*data provider*) in order to request the latest Ship notification details about a given vessel.

This message is used by SafeSeaNet when receiving a **MS2SSN_Ship_Req.xml** message coming from a *data requester* and when SafeSeaNet has identified that the *data provider* (i.e. the holder of the notification details) is able to talk XML with SafeSeaNet (please refer to "Data Provider capabilities" at page 23 for more details).

Please note that such kind of XML request (*SSN2MS_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*MS2SSN_<SSN_Tx_Type>_Res.xml*) must be implemented by a Member State (*data provider*) in order to supply the notification details in XML format.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_Ship_Req - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		***1***
	SearchCriteria	***1***
	ShipNotType	1
	IMONumber	0-1
	MMSINumber	0-1
	MRSIdentification	0-1
	SenderCountryId	0-1

Business Rules

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_Ship_Req - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
SSNRefId	1	The SSNRefId must be unique.
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
TimeoutValue	1	

SSN2MS_Ship_Req - Item	Occ	Description
From	1	
To	1	
Body	**1**	
SearchCriteria	**1**	
ShipNotType	1	From "MS2SSN_Ship_Details_Req.xml
IMONumber	0-1	
MMSINumber	0-1	
MRSIdentification	0-1	
SenderCountryId	0-1	

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_Ship_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2017-12-28T12:30:03Z" From="SafeSeaNet"
        To="thanosId" SSNRefId="2259230" TimeoutValue="60" />
    <Body>
        <SearchCriteria IMONumber="9134256" ShipNotType="MRS"
            MRSIdentification="ADRIREP" />
    </Body>
</SSN2MS_Ship_Req>
```

MS2SSN_Ship_Res.xml message

Introduction

The **MS2SSN_Ship_Res.xml** message is sent by the Member State holding the notifications details (*data provider)* to SafeSeaNet in answer to its request for getting the latest ship notification details about a given vessel. The *data provider* should return the details of the latest ship notification it holds.

Please note that such kind of XML response (*MS2SSN_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*SSN2MS_<SSN_Tx_Type>_Req.xml*) must be implemented by a Member State (*data provider*) in order to supply the notification details in XML format.

Message description

The following table describes the XML message used for the transaction. Either the *MRSNotificationDetails* or the *AISNotificationDetails* element will be returned depending on the type of the ship notification (MRS or AIS).

Continued on next page

MS2SSN_Ship_Res.xml message, Continued

MS2SSN_Ship_Res - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		***0-1***
SearchCriteria		***1***
	ShipNotType	1
	IMONumber	0-1
	MMSINumber	0-1
	MRSIdentification	0-1
	SenderCountryId	0-1
VesselIdentification		***1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
MRSNotificationDetails		**0-1**
MRSInformation		**1**
	MRSIdentification	1
	CSTIdentification	0-1
MRSVoyageInformation		**1**
	NextPortOfCall	1
	ETA	0-1
	TotalPersonsOnBoard	1
	AnyDG	1
	Longitude	1
	Latitude	1
	ReportingDateAndTime	1
MRSDynamicInformation		**1**
	COG	1
	SOG	1
	NavigationalStatus	1
Bunker		0-1
	Chars	1
	Quantity	1
MRSCargoInformation		1
	CargoType	1
DG		0-1
	AOI	0-1
DGDetails		***1-∞***
	IMOClass	0-1
	Quantity	1
ContactDetails		0-1

MS2SSN_Ship_Res - Elements				Attributes	Occ
				LastName	1
				FirstName	0-1
				LoCode	0-1
				Phone	0-1
				Fax	0-1
				EMail	0-1
	AISNotificationDetails				**0-1**
		VesselInformation			**0-1**
				LengthAndBeam	0-1
				ShipDraught	0-1
				ShipType	0-1
				AntennaLocation	0-1
		AISVoyageInformation			**1**
				NextPortOfCall	1
				ETA	0-1
				Longitude	1
				Latitude	1
				Timestamp	1
				TotalPersonsOnBoard	0-1
		AISDynamicInformation			1
				RoutePlan	1
				ROT	0-1
				COG	0-1
				SOG	0-1
				NavigationalStatus	0-1
				Heading	0-1
		AISCargoInformation			**0-1**
				HazardousCargoType	1

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Ship_Res - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SSNRefld	1	The SSNRefId is unique.
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	**0-1**	**Optional only if *StatusCode*=”InvalidFormat”**
SearchCriteria	**1**	
ShipNotType	1	From initial *MS2SSN_Ship_Req.xml* request
IMONumber	0-1	
MMSINumber	0-1	
MRSIdentification	0-1	
SenderCountryId	0-1	
VesselIdentification	**1**	No checking rules to be applied if already applied in the notification.
IMONumber	0-1	Mandatory if MMSI number is lacking.
MMSINumber	0-1	Mandatory if IMO number is lacking.
CallSign	0-1	
ShipName	0-1	
MRSNotificationDetails	**0-1**	**Not allowed if *StatusCode*<> OK or if *AISNotificationDetails* specified**
…		
AISNotificationDetails	**0-1**	**Not allowed if *StatusCode*<> OK or if *MRSNotificationDetails* specified**
…		

***MRSNotificationDetails* element** The following table describes the *MRSNotificationDetails* element (returned if ship notification type = MRS):

MS2SSN_Ship_Res - Item	Occ	Description
MRSNotificationDetails	**0-1**	**Not allowed if *StatusCode*<> OK or if *AISNotificationDetails* specified**
MRSInformation	**1**	
MRSIdentification	1	From the initial "MS2SSN_Ship_Not.xml" message. It shall match the Search criteria if quoted

MS2SSN_Ship_Res - Item	Occ	Description
CSTIdentification	0-1	From the initial "MS2SSN_Ship_Not.xml" message
MRSVoyageInformation	**1**	
NextPortOfCall	1	Location code of next port of call. . It can be any LOCODE listed in the UNECE LOCODE list or any LOCODE listed in the specific EMSA locode list.
ETA	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the estimated time of arrival at next port of call.
TotalPersonsOnBoard	1	**99999** if actually unknown.
AnyDG	1	Possible values: "Y" or "N"
Longitude	1	
Latitude	1	
ReportingDateAndTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and Time of reporting. This time stamp corresponds also to the given position.
MRSDynamicInformation	**1**	
COG	1	
SOG	1	
NavigationalStatus	1	
Bunker	0-1	**Mandatory for ships of more 1000 gross tonnage.**
Chars	1	
Quantity	1	Bunker estimated quantity
MRSCargoInformation	1	
CargoType	1	
DG	0-1	***Element describing the dangerous/polluting goods on board. Mandatory if "AnyDG"="Y"***
AOI	0-1	To provide detailed information about dangerous and polluting goods whenever the DGDetails elements does not fit the reporting requirement (e.g. for reporting the oil cargo type, quantity, grades and density of heavy crude oil, heavy fuel oil, bitumen and tar as per WETREP requirements). If other dangerous and polluting goods are carried simultaneously then DGDetails element shall be quoted. This attribute can also be used for the other MRS to provide any other relevant information on dangerous and polluting goods.
DGDetails	***1-∞***	
IMOClass	0-1	Note: The value is as specified in the ShipCall messages for "IMOHazardClass" attribute.
Quantity	1	Quantity of DG
ContactDetails	0-1	**Element indicating the address for the communication of cargo information**
LastName	1	
FirstName	0-1	
LoCode	0-1	Location code of the contact person. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email)
Fax	0-1	

MS2SSN_Ship_Res - Item	Occ	Description
EMail	0-1	

***AISNotification Details* element** The following table describes the *AISNotificationDetails* element (returned if ship notification type = AIS):

MS2SSN_Ship_Res - Item	Occ	Description
AISNotificationDetails	**0-1**	***AISNotificationDetails* element node. Not allowed if *StatusCode*<> OK or if *MRSNotificationDetails* specified.** No checking rules applied in the AIS response.
VesselInformation	**0-1**	***VesselInformation* element node**
LengthAndBeam	0-1	none
ShipDraught	0-1	none
ShipType	0-1	none
AntennaLocation	0-1	none
AISVoyageInformation	**1**	***AISVoyageInformation* element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown. Considering the actual situation with the vast majority of the AIS messages include the actual name and not the LoCode described in many different ways, the SSN Group decided not to reject notifications containing more than 5 characters in this attribute. Member States requesting through the web will receive the original content of the attribute. Member States when requesting through the XML these messages will receive ZZUKN.
ETA	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the estimated time of arrival at next port of call.
Longitude	1	none
Latitude	1	none
Timestamp	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the ship position.
TotalPersonsOnBoard	0-1	**99999** if actually unknown.
AISDynamicInformation	1	***AISDynamicInformation*** element node
RoutePlan	1	none
ROT	0-1	none
COG	0-1	none
SOG	0-1	none
NavigationalStatus	0-1	none
Heading	0-1	none
AISCargoInformation	**0-1**	***AISCargoInformation* element node**
HazardousCargoType	1	none

Example of an AIS notification details

The details of an AIS notification can only be supplied in the XML format. An example of the details of a latest AIS notification could be the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_Ship_Res xmlns="urn:eu.emsa.ssn"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <Header Version="3.0" MSRefId="SSN:: SHIP-REQ-3434asd" SSNRefId="SSNSHIP-REQ-3434as"
        SentAt="2014-01-30T11:16:38Z " From=" NCAXYZ2" To="SafeSeaNet"
        StatusCode="OK" />
    <Body>
        <SearchCriteria IMONumber="8500068" ShipNotType="AIS" />
        <VesselIdentification IMONumber="8500068"
            ShipName="MAJ DANIELSEN" CallSign="C6OO5" />
        <AISNotificationDetails>
            <AISVoyageInformation NextPortOfCall="PTLIS"
                ETA="2014-02-09T08:27:24Z" TotalPersonsOnBoard="35" Latitude="33059166"
                Longitude="-7220333" Timestamp="2014-02-08T08:27:24Z" />
            <AISDynamicInformation RoutePlan="test route plan"
                ROT="123" COG="3600" SOG="1023" NavigationalStatus="8" />
            <AISCargoInformation HazardousCargoType="DG" />
        </AISNotificationDetails>
    </Body>
</MS2SSN_Ship_Res>
```

Example of an MRS notification details

The following example illustrates the details of a MRS notification. The cargo information specifies that dangerous goods are on board and that the cargo manifest can be downloaded by SSN from the specified url.

```
<?xml version="1.0" encoding="UTF-8"?>
<urn:MS2SSN_Ship_Res xmlns:urn="urn:eu.emsa.ssn">
    <urn:Header From="GRPIR01" MSRefId="ms2ssn_ship_res_20180112_1"
        SSNRefId="2259578" SentAt="2018-01-12T11:00:00" StatusCode="OK"
        TestId="test" To="SafeSeaNet" Version="4.0" />
    <urn:Body>
        <urn:SearchCriteria IMONumber="9134256"
            ShipNotType="MRS" />
        <urn:VesselIdentification CallSign="9V7953"
            IMONumber="9134256" MMSINumber="564621000" ShipName="EVER DELUXE" />
        <urn:MRSNotificationDetails>
            <urn:MRSInformation MRSIdentification="ADRIREP" />
            <urn:MRSVoyageInformation AnyDG="Y"
                Latitude="-54000000" Longitude="108600000" NextPortOfCall="GRLAV"
                ReportingDateAndTime="2017-09-27T11:00:00" TotalPersonsOnBoard="50" />
            <urn:MRSDynamicInformation COG="1000"
                NavigationalStatus="1" SOG="500" />
            <urn:MRSCargoInformation CargoType="type of cargo">
                <urn:DG AOI="information on oil cargo types">
                    <urn:DGDetails IMOClass="imoclz" Quantity="2" />
                </urn:DG>
            </urn:MRSCargoInformation>
        </urn:MRSNotificationDetails>
    </urn:Body>
</urn:MS2SSN_Ship_Res>
```

SSN2MS_Ship_Res.xml message

Introduction

The **SSN2MS_Ship_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the latest ship notification details about a given vessel.

Please note that such kind of XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction. Either the *MRSNotificationDetails* or the *AISNotificationDetails* element will be returned depending on the type of the ship notification (MRS or AIS).

Continued on next page

SSN2MS_Ship_Res.xml message, Continued

SSN2MS_Ship_Res - Elements			Attributes	Occ
Header				***1***
			Version	1
			TestId	0-1
			MSRefId	1
			SSNRefld	1
			SentAt	1
			From	1
			To	1
			StatusCode	1
			StatusMessage	0-1
Body				***0-1***
	SearchCriteria			***1***
			ShipNotType	1
			IMONumber	0-1
			MMSINumber	0-1
			MRSIdentification	0-1
			SenderCountryId	0-1
	NotificationDetails			***0-1***
			SentAt	***1***
			From	1
		VesselIdentification		***1***
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
		VoyageInformation		***0-1***
			Longitude	1
			Latitude	1
			NextPortOfCall	1
			ETA	0-1
			TotalPersonsOnBoard	1
		AISNotificationDetails		***0-1***
		…		
		MRSNotificationDetails		***0-1***
		…		

Business Rules The following rules apply to the SSN2MS_Ship_Resmessage:

No.	General rules applicable to the SSN2MS_Ship_Res.xml message
1	Details for both MRS and AIS notification can be provided only in XML
2	For the transition period regarding Ship MRS V2 and V3 messages, the following elements are considered: • Attribute "AnyDG": "**X**" to be quoted in the SSN2MS_Ship_Res.xml in case the notification provided is compliant to SSN v2; • Attribute "MRSIdentification": "**undefined**" to be quoted in the SSN2MS_Ship_Res.xml in case the notification provided is compliant to SSN v2 • Attribute "ReportingDateAndTime": "SentAt" to be quoted in the SSN2MS_Ship_Res.xml in case the notification provided is compliant to SSN v2

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_Ship_Res - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SSNRefld	1	The SSNRefId is unique.
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	**0-1**	**Optional if*StatusCode*="InvalidFormat"**
SearchCriteria	**1**	
ShipNotType	1	From initial *MS2SSN_Ship_Req.xml* request
IMONumber	0-1	
MMSINumber	0-1	
MRSIdentification	0-1	
SenderCountryId	0-1	
NotificationDetails	**0-1**	
SentAt	**1**	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time indicating when the notification has been notified to SafeSeaNet. The value "SentAt" is also quoted in the attribute "ReportingDateAndTime" in case the notification provided is compliant to SSN v2
From	1	
VesselIdentification	**1**	

SSN2MS_Ship_Res - Item	Occ	Description
IMONumber	0-1	Mandatory if MMSI number is lacking.
MMSINumber	0-1	Mandatory if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
AISNotificationDetails	**0-1**	**Mandatory if the ship notification is of type AIS. If specified, the *MRSNotificationDetails*is not allowed.**
…		From corresponding *MS2SSN_Ship_Res.xml* response (if any). See p.138.
MRSNotificationDetails	**0-1**	**Mandatory if the ship notification is of type MRS. If specified, the *AISNotificationDetails*isnot allowed.**
…		From corresponding *MS2SSN_Ship_Res.xml* response (if any). See p.136.

Example of an AIS notification in XML

The AIS notification details can only be provided in XML format as shown below:

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="1187776293553" MSRefId="SHIP-REQ-35asd"
        Version="3.0" To="NCAXYZ1" SentAt="2014-01-30T11:16:38Z " From="SafeSeaNet" />
    <Body>
        <SearchCriteria IMONumber="8500068" ShipNotType="AIS" />
        <NotificationDetails SentAt="2014-08-22T06:50:37Z"
            From="NCAXYZ1">
            <VesselIdentification ShipName="MAJ DANIELSEN"
                CallSign=" C6OO5" IMONumber="8500068" />
            <AISNotificationDetails>
                <AISVoyageInformation Timestamp="2014-01-30T11:16:38Z "
                    Longitude="-7220333" Latitude="33059166" TotalPersonsOnBoard="35"
                    NextPortOfCall="PTLIS" ETA="2014-02-09T05:37:00Z" />
                <AISDynamicInformation RoutePlan="test route plan"
                    ROT="123" COG="3600" SOG="1023" NavigationalStatus="8" />
                <AISCargoInformation HazardousCargoType="DG" />
            </AISNotificationDetails>
        </NotificationDetails>
    </Body>
</SSN2MS_Ship_Res>
```

Continued on next page

SSN2MS_Ship_Res.xml message, Continued

Examples of a MRS notification details

The following example illustrates the details of a MRS notification available in XML format. The cargo information specifies that dangerous goods are on board and that the cargo manifest can be downloaded by SSN from the specified url.

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" TestId="testId1" SentAt="2018-01-12T08:28:01Z"
        From="SafeSeaNet" To="thanosId" MSRefId="V4_SHIP_XML_REQ_20180112_2"
        SSNRefId="V4_SHIP_XML_REQ_20180112_2" StatusCode="OK" />
    <Body>
        <SearchCriteria IMONumber="9134256" ShipNotType="MRS"
            MRSIdentification="ADRIREP" />
        <NotificationDetails SentAt="2017-12-28T12:05:18Z"
            From="thanosId">
            <VesselIdentification IMONumber="9134256"
                MMSINumber="564621000" CallSign="9V7953" ShipName="EVER DELUXE" />
            <MRSNotificationDetails>
                <MRSInformation MRSIdentification="ADRIREP"
                    CSTIdentification="IT_TriesteMRSC" />
                <MRSVoyageInformation NextPortOfCall="GRLAV"
                    TotalPersonsOnBoard="50" Longitude="108600000" Latitude="-54000000"
                    AnyDG="Y" ReportingDateAndTime="2017-09-27T11:00:00Z" />
                <MRSDynamicInformation COG="1000" SOG="500"
                    NavigationalStatus="1" />
                <MRSCargoInformation CargoType="type of cargo">
                    <DG AOI="information on oil cargo types">
                        <DGDetails IMOClass="imoclz" Quantity="2" />
                    </DG>
                </MRSCargoInformation>
            </MRSNotificationDetails>
        </NotificationDetails>
    </Body>
</SSN2MS_Ship_Res>
```

MS2SSN_Ship_List_Req.xml message

Introduction

The **MS2SSN_Ship_List_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request a list of MRS notifications about a given MRS area for a specific period. This query is not designed to retrieve AIS notifications.

Please note that such kind of XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_Ship_List_Req - Elements		Attributes	Occ
Header			***1***
		Version	1
		TestId	0-1
		MSRefId	1
		SentAt	1
		TimeoutValue	1
		From	1
		To	1
Body			***1***
	SearchCriteria		***1***
		MRSIdentification	1
		StartDateTime	0-1
		EndDateTime	0-1
		SenderCountryId	0-1
		<TBD>	---

Business Rules

The following rules apply to the MS2SSN_Ship_List_Reqmessage:

No.	General rules applicable to the MS2SSN_Ship_List_Req.xml message
1	This query can be used only for retrieving a list of MRS notifications (i.e. Ship notifications quoting the element “MRSNotification”). This query is not designed to retrieve AIS notifications.
2	The query retrieves the available notifications stored at Central SSN system. No details will be provided in the response.
3	The results can be fetch within a configurable timeframe (maximum 24 hours) which can be moved up to 60 days in the past (see table “C” for the detailed business logic).

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Ship_List_Req - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
TimeoutValue	1	
From	1	
To	1	
Body	**1**	
SearchCriteria	**1**	
MRSIdentification	1	
StartDateTime	0-1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
EndDateTime	0-1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
SenderCountryId	0-1	This can be quoted to restrict the request to the Country sending the notification (identified by the Central SSN system on the basis of the attribute "From" in the notification)
<TBD>	---	---

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<urn:MS2SSN_Ship_List_Req xmlns:urn="urn:eu.emsa.ssn">
    <urn:Header From="thanosId" MSRefId="V4_SHIP_LIST_REQ_20180208_2"
        SentAt="2018-02-07T15:00:00Z" TestId="testId1" TimeoutValue="0"
        To="SafeSeaNet" Version="4.0" />
    <urn:Body>
        <urn:SearchCriteria EndDateTime="2018-02-07T14:00:00Z"
            MRSIdentification="ADRIREP" StartDateTime="2018-02-07T00:00:00Z" />
    </urn:Body>
</urn:MS2SSN_Ship_List_Req>
```

Table 3–Detailed business logic for the query

ID	Information to be included in the RESPONSE message	Mandatory attributes to be quoted for accepting the REQUEST as valid	Optional attributes which can be quoted in the REQUEST	Time criteria
1	The response to this query (SSN2MS_Ship_List_Res.xml) includes a list of MRS notifications where ReportingDateAndTime is between StartDateTime and EndDateTime. If data are available, the query provides the information in XML depending on the search criteria (on the basis of "MRSIdentification", "StartDateTime" and "EndDateTime"). The attribute "SenderCountryId" (optional) can be used to restrict the query to notifications sent by a specific MS.	- MRSIdentification	- SenderCountryId - StartDateTime - EndDateTime	- StartDateTime and EndDateTime may be used in any order (Start before End or End before Start). Central SSN will consider the time period defined between the closest date and the farthest date. - Time period cannot be older than [SentAt – 60 days] and cannot be longer than 24 hours. - If only StartDateTime or EndDateTime is provided, then SentAt value is considered for the missing one. - If none is provided, Central SSN considers [StartDateTime = SentAt] and [EndDateTime = SentAt – 24 hours].

SSN2MS_Ship_List_Res.xml message

Introduction

The S**SN2MS_Ship_List_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the list ofMRS notification about a given MRS area for a specific period. This response does not include AIS notifications.

Please note that such kind of XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_Ship_List_Res - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		***0-1***
	SearchCriteria	***1***
	MRSIdentification	1
	StartDateTime	0-1
	EndDateTime	0-1
	SenderCountryId	0-1
	<TBD>	-----
QueryResults		***0-1***
NotificationList		***1***
NotificationInformation		***1-∞***
NotificationID		***1***
	SentAt	1
	From	1
	MSRefID	1
MRSVesselIdentification		***1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
MRSInformation		1
	MRSIdentification	1
	CSTIdentification	0-1

SSN2MS_Ship_List_Res - Elements				Attributes		Occ
				MRSVoyageInformation		**1**
					NextPortOfCall	1
					ETA	0-1
					TotalPersonsOnBoard	1
					AnyDG	1
				MRSShipPosition		1
					Longitude	1
					Latitude	1
					ReportingDateAndTime	1

Business Rules The following rules apply to the SSN2MS_Ship_List_Resmessage:

No.	General rules applicable to the SSN2MS_Ship_List_Res.xml message
1	This query can be used only for retrieving a list of MRS notifications (quoting the element “MRSNotification”). This is not designed to retrieve AIS notifications.
2	The query retrieves the available notifications stored at Central SSN system. No details will be provided in the response.

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_Ship_List_Res - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SSNRefld	1	The SSNRefId is unique.
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD”. Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	**0-1**	Optional only when StatusCode=”InvalidFormat”
SearchCriteria	***1***	
MRSIdentification	1	From the "MS2SSN_List_Req.xml"
StartDateTime	0-1	From the "MS2SSN_List_Req.xml"
EndDateTime	0-1	From the "MS2SSN_List_Req.xml"
SenderCountryId	0-1	From the "MS2SSN_List_Req.xml"
<TBD>	----	
QueryResults	***0-1***	Could be not provided only in case no results are available

SSN2MS_Ship_List_Res - Item	Occ	Description
NotificationList	***1***	
NotificationInformation	***1***-∞	It returns 1-∞ results.
NotificationID	***1***	
SentAt	1	From the initial MS2SSN_Ship_Not.xml
From	1	From the initial MS2SSN_Ship_Not.xml
MSRefId	1	From the initial MS2SSN_Ship_Not.xml
MRSVesselIdentification	***1***	No checking rules to be applied if already applied in the notification.
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
MRSInformation	***1***	
MRSIdentification	1	From the original "MS2SSN_Ship_Not.xml"
CSTIdentification	0-1	From the original "MS2SSN_Ship_Not.xml"
MRSVoyageInformation	***1***	
NextPortOfCall	1	From the original "MS2SSN_Ship_Not.xml" Location code of next port of call. May be “ZZUKN” if unknown.
ETA	0-1	From the original “MS2SSN_Ship_Not.xml”. Format “YYYY-MM-DDThh:mm:ssTZD” where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time of the estimated time of arrival at next port of call. May only be optional if NextPortOfCall attribute value is unknown.
TotalPersonsOnBoard	1	From the original “MS2SSN_Ship_Not.xml”. **99999** if actually unknown.
AnyDG	1	From the original "MS2SSN_Ship_Not.xml"
MRSShipPosition	1	
Longitude	1	From the original “MS2SSN_Ship_Not.xml”.
Latitude	1	From the original “MS2SSN_Ship_Not.xml”.
ReportingDateAndTime	0-1	From the original MS2SSN_Ship_Not.xml”. Format “YYYY-MM-DDThh:mm:ssTZD” where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and Time of MRS reporting. This corresponds to the given position at the time of reporting.

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_Ship_List_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" TestId="testId1" SentAt="2018-02-07T13:19:23Z"
        From="SafeSeaNet" To="thanosId" MSRefId="V4_SHIP_LIST_REQ_20180207_6"
        SSNRefId="V4_SHIP_LIST_REQ_20180207_6" StatusCode="OK" />
    <Body>
        <SearchCriteria MRSIdentification="ADRIREP"
            StartDateTime="2018-02-07T00:00:00Z" EndDateTime="2018-02-07T14:00:00Z" />
        <QueryResults><NotificationList>
                <NotificationInformation>
                    <NotificationID MSRefId="2267873" SentAt="2018-02-07T09:32:57Z"
                        From="SSNADMIN" />
                    <MRSVesselIdentification IMONumber="9354284"
                        MMSINumber="276673000" CallSign="ESCK" ShipName="BALTIC PRINCESS" />
                    <MRSInformation MRSIdentification="ADRIREP" />
                    <MRSVoyageInformation NextPortOfCall="GRACL"
                        ETA="2018-02-07T09:32:03Z" TotalPersonsOnBoard="10" AnyDG="Y" />
                    <MRSShipPosition Longitude="0" Latitude="0"
                        ReportingDateAndTime="2018-02-07T09:32:00Z" />
                </NotificationInformation>
                <NotificationInformation>
                    <NotificationID MSRefId="2268212" SentAt="2018-02-07T12:25:36Z"
                        From="SSNADMIN" />
                    <MRSVesselIdentification IMONumber="7350002"
                        MMSINumber="445889000" CallSign="HMDOO" ShipName="HAMMOUDI JR" />
                    <MRSInformation MRSIdentification="ADRIREP" />
                    <MRSVoyageInformation NextPortOfCall="GRACL"
                        ETA="2018-02-07T12:23:29Z" TotalPersonsOnBoard="10" AnyDG="Y" />
                    <MRSShipPosition Longitude="39432000" Latitude="20135500"
                        ReportingDateAndTime="2018-02-07T12:23:00Z" />
                </NotificationInformation>
                <NotificationInformation>
                    <NotificationID MSRefId="2268221" SentAt="2018-02-07T12:33:23Z"
                        From="SSNADMIN" />
                    <MRSVesselIdentification IMONumber="7350002"
                        MMSINumber="445889000" CallSign="HMDOO" ShipName="HAMMOUDI JR" />
                    <MRSInformation MRSIdentification="ADRIREP" />
                    <MRSVoyageInformation NextPortOfCall="GRACL"
                        ETA="2018-02-07T12:29:05Z" TotalPersonsOnBoard="10" AnyDG="Y" />
                    <MRSShipPosition Longitude="0" Latitude="0"
                        ReportingDateAndTime="2018-02-07T12:31:00Z" />
                </NotificationInformation>
            </NotificationList></QueryResults>
    </Body>
</SSN2MS_Ship_List_Res>
```

Section 3.7 - Get PortPlus notification(s) details

Introduction

Users may request SSN details from PortPlus notifications regarding a ship or calls in a port.

Search parameters give the possibility to request PortPlus notification details at various stages of a ship call (expected ship call, most recent arrival, most recent departure, completed ship calls, active situation of a ship etc…).

Users may request additional detailed information regarding dangerous and polluting goods (Hazmat), waste and cargo residues, or security information, as is stored in the national SSN System of the relevant MS. Request results may consist in a unique ship call or in a list of ship call. Detailed information can only be requested of a unique ship calls (not provided for list of ship calls).

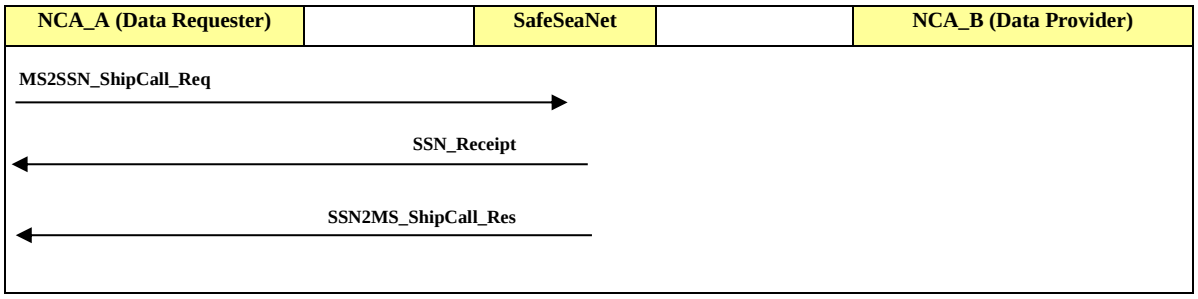
This service is implemented by exchanging XML messages between the *data requester*, the Central SafeSeaNet System and, in case of request for Hazmat, Waste and Security detailed information, the *data provider.*

This section describes the different XML messages provided for this transaction.

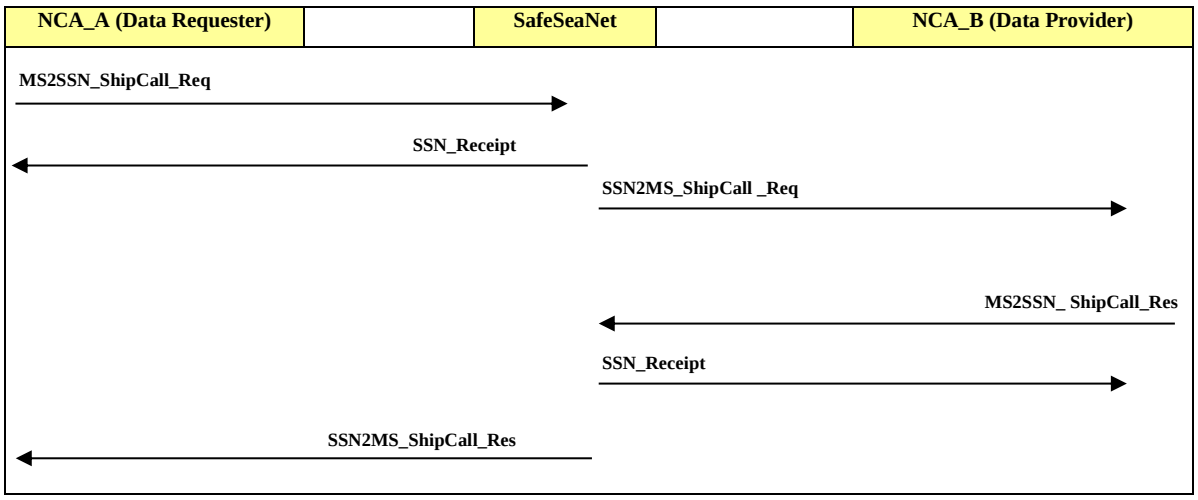
General flow of the XML messages

The following figures outline the expected asynchronous flows (except SSN_receipts which are **synchronous** messages) of XML messages related to this SafeSeaNet XML transaction. SafeSeaNet has most of ships calls' related details in its database and as such can respond directly to a request (stored when e.g. receiving the *MS2SSN_PortPlus_Not.xml* notification messages from the *data provider* during the various phases of a ship voyage), there is no need to ask the *data provider* for sending details, except in the case of the request of the Hazmat, Waste or Security details as depicted in the 2nd figure.

Flow of XML messages when 'NCA A' (Data requester) asks for **ships' calls related details.** SafeSeaNet responds to the request directly by extracting the details from its database



Flow of XML messages when the 'NCA A' (Data requester) asks for**Hazmat, Waste or Security details. SafeSeaNet** needs to ask first the *data provider* for sending the details and then forwards the details to the data requester.



Contents This section contains the following topics:

Topic
MS2SSN_ShipCall_Req.xml message structure MS2SSN_ShipCall_Req.xml message applicable business rules Examples
SSN2MS_ShipCall_Req.xml message structure SSN2MS_ShipCall_Req.xml message applicable business rules Examples
MS2SSN_ShipCall_Res.xml message structure MS2SSN_ShipCall_Res.xml message applicable business rules Examples
SSN2MS_ShipCall_Res.xml message structure SSN2MS_ShipCall_Res.xml message applicable business rules Examples

Detailed descriptions of the attributes included in the messages (type/ length/ definition/ rules applicable to type or length) are provided in the Annex A of this document.

MS2SSN_ShipCall_Req.xml message

Introduction

The **MS2SSN_ShipCall_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the operational information (ship specific/ ship call specific/ port of call specific).

Please note that such kind of XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) should only be implemented by a Member State to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_ShipCall_Req - Entities	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		1
RequiredResponseCriteria		1
ShipCallResp		1
	GetDetails	1
	GetHazmat	0-1
	GetWaste	0-1
	GetSecurity	0-1
	GetBunkers	0-1
SearchCriteria		1
TimePeriodCriteria		0-1
	StartDateTime	0-1
	EndDateTime	0-1
ShipIdentificationCriteria		0-1
	IMONumber	0-1
	MMSINumber	0-1
PortOfCallIdentificationCriteria		0-1
	PortOfCall	1
ShipCallIdentificationCriteria		0-1
	ShipCallId	0-1
	NumberOfCalls	0-1

Business Rules The following rules apply to the MS2SSN_ShipCall_Reqmessage:

No.	General Rule applicable to the MS2SSN_ShipCall_Req message
1	The source of the request should be indicated in the message (attribute “From”). Identification of the source is left to the responsibility of the NCA. Access control restrictions apply on the results returned by the query based on the SSN access right policy. The Port of Call should be among the permitted locations for the user requesting the data.
2	As a general exception to the above rule, providers of notifications always have the right to request details regarding their own notifications.
3	The Authority responsible for the new Port of destination of the ship has the right to retrieve the HazmatEUdeparture information provided at departure even if the next port of call declared at the moment of departure was different. SSN uses the consolidation rules introduced in chapter 2 to identify changes to the next port.

Business Rules The following table describes the business rules applied to the message. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_ShipCall_Req - Item	Occ	Business rules
Header	1	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique per MS. If the MSRefId was already used in a message sent by the MS to the Central SSN System, the message is rejected.
SentAt	1	
TimeoutValue	1	
From	1	
To	1	
Body	1	
RequiredResponseCriteria	1	
ShipCallResp	1	Defines the type of query and its options.
GetDetails	1	Type of query. Refer to the Table 4 below for possible values and description of queries, parameters and business rules. Only one of the three attributes GetHazmat, GetWaste, GetSecurity is allowed.
GetHazmat	0-1	- May be used depending on the type of query (value of GetDetails). See table 4 below. - Use “HazmatSummary” if response should be limited to information from notifications as stored in SSN - Use “HazmatDetails” if response should provide detailed information from thenotification of dangerous and polluting goods obtained from the relevant MS. - If not provided but required for the type of query, “HazmatSummary” will be considered.

MS2SSN_ShipCall_Req - Item	Occ	Business rules
GetWaste	0-1	- May be used depending on the type of query (value of GetDetails). See table 4 below. - Use "WasteSummary" if response should provide only the WasteSummary information - Use "WasteDetails" if response should provide detailed information of waste and cargo residues. - If not provided but required for the type of query, "WasteSummary" will be considered.
GetSecurity	0-1	- May be used depending on the type of query (value of GetDetails). See table 4 below. - Use "SecuritySummary" if response should be limited to information from notifications as stored in SSN - Use "SecurityDetails" if response should provide detailed information from the notification of security information obtained from the relevant MS. - If not provided but required for the type of query, "SecuritySummary" will be considered.
GetBunkers	0-1	- May be used depending on the type of query (value of GetDetails). See table 4 below. - Only "BunkersDetails" may be used. Gets the information from the notification of bunkers obtained from the relevant MS.
SearchCriteria	1	Defines the query parameters. Elements and attributes to be provided within this element and business rules depend on type of query (value of GetDetails). See table 4 below.
TimePeriodCriteria	0-1	
StartDateTime	0-1	
EndDateTime	0-1	
ShipIdentificationCriteria	0-1	
IMONumber	0-1	
MMSINumber	0-1	
PortOfCallIdentificationCriteria	0-1	
PortOfCall	1	
ShipCallIdentificationCriteria	0-1	
ShipCallId	0-1	
NumberOfCalls	0-1	

Table 4– Description of queries supported by the MS2SSN_ShipCall_Req message

Value of GetDetails (Type of query)	Parameters &Options Optional parameters are in brackets ()	Result of query	Business rules on parameters
ExpectedCallOfSelectedShip	**IMONumber or MMSINumber** (StartDateTime) (GetHazmat) (GetWaste) (GetSecurity) (GetBunkers)	Central SSN will provide the ship call: - Without ATAPortOfCall, and - With ETAToPortOfCallafter and closest to StartDateTime. Hazmat or Bunkers information in results is as reported before arrival to the port.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 30 days] and [SentAt + 30 days] - If StartDateTime is not provided, SentAt value is considered
MostRecentArrivalOfSelectedShip	**IMONumber or MMSINumber** (StartDateTime) (GetHazmat) (GetWaste) (GetSecurity) (GetBunkers)	Central SSN will provide the ship call: - With ATAPortOfCallbefore and closest to StartDateTime, and - With ATDPortOfCall, if available,after StartDateTime. Hazmat or Bunkers information in results is as reported before arrival to the port.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 30 days] and [SentAt] - If StartDateTime is not provided, SentAt value is considered
MostRecentDepartureOfSelectedShip	**IMONumber or MMSINumber** (StartDateTime) (GetHazmat) (GetWaste) (GetSecurity) (GetBunkers)	Central SSN will provide theship call with ATDPortOfCallbeforeand closest to StartDateTime. Hazmat or Bunkers information in results is as reported before departure from the port.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 30 days] and [SentAt] - If StartDateTime is not provided, SentAt value is considered
RecentAndCurrentShipCallsOfSelectedShip	**IMONumber or MMSINumber** (StartDateTime) (EndDateTime) (NumberOfCalls)	Central SSN will provide the list of ship calls with ATAPortOfCallwithin the time period defined by StartDateTime and EndDateTime. If no time period is defined, Central SSN will provide the list of latest [NumberOfCalls] consolidated PortPlus messages with ATAPortOfCall before SentAt. Hazmat information in results is as reported before arrival to the port.	- IMONumber or MMSINumber must be provided. - StartDateTime and EndDateTime may be used in any order (Start before End or End before Start). Central SSN will consider the time period defined between the closest date and the farthest date. - Time period must be before SentAt, cannot be older than [SentAt – 60 days] and cannot be longer than 30 days. - If only StartDateTime or EndDateTime is provided, then SentAt value is considered for the missing one. - If none is provided, then NumberOfCalls is considered. - If NumberOfCalls is not provided, then default value “10” is considered. - NumberOfCalls cannot be more than 500.

Value of GetDetails (Type of query)	Parameters &Options Optional parameters are in brackets ()	Result of query	Business rules on parameters
			- If StartDateTime or EndDateTime is provided, then NumberOfCalls is not considered.
ExpectedShipCallsAtEUPort	**PortOfCall** (StartDateTime) (EndDateTime) (NumberOfCalls)	Central SSN will provide the list of ship calls: -With ETAToPortOfCallwithin the time period defined by StartDateTime and EndDateTime, and - Without ATAPortOfCall. If no time period is defined, Central SSN will provide the list of [NumberOfCalls] correlated voyages: -With ETAToPortOfCallafter SentAt, and - Without ATAPortOfCall. Hazmat information in results is as valid before arrival to the port.	- PortOfCall must be provided. - PortOfCall = "ZZUKN" is not allowed. - StartDateTime and EndDateTime may be used in any order (Start before End or End before Start). Central SSN will consider the time period defined between the closest date and the farthest date. - Time period must be after SentAt, must be within [SentAt + 60 days] and cannot be longer than 30 days. - If only StartDateTime or EndDateTime is provided, then SentAt value is considered for the missing one. - If none is provided, then NumberOfCalls is considered. - If NumberOfCalls is not provided, then default value "10" is considered. - NumberOfCalls cannot be more than 500. - If StartDateTime or EndDateTime is provided, then NumberOfCalls is not considered.
CurrentShipCallsAtEUPort	**PortOfCall** (StartDateTime)	Central SSN will provide the list of ship calls - With PortOfCall = defined PortOfCall, and - With ATAPortOfCallafter StartDateTime, and - Without ATDPortOfCall. Hazmat information in results is as reported before departure from the port.	- PortOfCall must be provided. - PortOfCall = "ZZUKN" is not allowed. - StartDateTime must be between [SentAt – 30 days] and [SentAt]. - If StartDateTime is not provided, [SentAt – 30 days] is considered.
CompletedShipCallsAtEUPort	**PortOfCall** (StartDateTime)	Central SSN will provide the list of ship calls: - With PortOfCall = defined PortOfCall, and - With ATDPortOfCallafter StartDateTime. Hazmat information in results is as reported before departure from the port.	- PortOfCall must be provided. - PortOfCall = "ZZUKN" is not allowed. - StartDateTime must be between [SentAt – 30 days] and [SentAt] - If StartDateTime is not provided, [SentAt – 30 days] is considered

Value of GetDetails (Type of query)	Parameters &Options Optional parameters are in brackets ()	Result of query	Business rules on parameters
LatestCallUpdates	**StartDateTime** **EndDateTime**	Central SSN will provide the list of ship calls which were registered or updated within the specified time period.	- StartDateTime must be < EndDateTime - StartDateTime and EndDateTime must be between [SentAt – 24h] and [Sent At].
ListExpectedCallsOfSelectedShip	**IMONumber or MMSINumber** (StartDateTime)	Central SSN will provide the list of ship calls: - Without ArrivalDetails element, and - With ETAToPortOfCallafter StartDateTime, and - Without ATAPortOfCall. Hazmat information in results is as valid before arrival to the port.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt] and [SentAt + 30 days] - If StartDateTime is not provided, SentAt value is considered
SelectedShipCall	**ShipCallId** (GetHazmat) (GetWaste) (GetSecurity) (GetBunkers)	Central SSN will provide the ship callwith the specified ShipCallId. Hazmat or Bunkers information in results is as reported before arrival to the port.	ShipCallId is mandatory
GetActiveHazmatForSelectedShip	**IMONumber or MMSINumber** **GetHazmat** (StartDateTime)	Central SSN will provide the most relevant ship calland associated hazmat details which are active at StartDateTime. Information may come from different PortPlus messages (different values of ShipCallId). See section “Business rules for the definition of “active” information” below.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 7 days] and [SentAt + 7 days] - If StartDateTime is not provided, SentAt value is considered
GetActiveSecurityForSelectedShip	**IMONumber or MMSINumber** **GetSecurity** (StartDateTime)	Central SSN will provide the most relevant ship call and associated security details. - without ATDPortOfCall and - with closest ETAToPortOfCall or ATAPortOfCall to StartDateTime	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 7 days] and [SentAt + 7 days] - If StartDateTime is not provided, SentAt value is considered
GetActiveWasteForSelectedShip	**IMONumber or MMSINumber** **GetWaste** (StartDateTime)	Central SSN will provide the most relevant ship calls and associated waste details. - without ATDPortOfCall and	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 7 days] and [SentAt + 7 days]

Value of GetDetails (Type of query)	Parameters &Options Optional parameters are in brackets ()	Result of query	Business rules on parameters
		- with closest ETAToPortOfCall or ATAPortOfCall to StartDateTime	- If StartDateTime is not provided, SentAt value is considered
GetActiveBunkersFor SelectedShip	**IMONumber or** **MMSINumber** **GetBunkers** (StartDateTime)	Central SSN will provide the most relevant ship call and associated Bunkers details which are active at StartDateTime. Information may come from different PortPlus messages (different values of ShipCallId). See section “Business rules for the definition of “active” information” below.	- IMONumber or MMSINumber must be provided. - StartDateTime must be between [SentAt – 7 days] and [SentAt + 7 days] - If StartDateTime is not provided, SentAt value is considered

Business rules for the definition of "activevoyage" information

European voyage duration (EVD) is a configurable parameter (to be set in SSN e.g. in 15 days) identifying a maximum duration for a ship voyage between two European ports. This parameter will be used for identifying if one or more estimated times in notifications concerning a voyage between two European ports must be considered "dummy (ies)" and, so, to be ignored by the SSN central system in the data correlation process.
World voyage duration (WVD) is a configurable parameter (to be set e.g. in 30 days) identifying a maximum duration for a ship voyage between a world port (Non SSN participant port) to a EU port. This parameter will be used for identifying if one or more estimated times in notifications concerning a voyage between a world port and a European port must be considered "dummy (ies)" and, so, to be ignored by the SSN central system in the data correlation process.

Active Hazmat (EU departure): A Hazmat EU departure is considered "active" from the ATD (or in case of non-availability of ATD, the ETD) provided by the departing port:

- Until the next ATA will be received after the ATD (ETD) from the port of departure, or
- Until a new Hazmat declaration for the ship will become active, or
- Until the period [ATD (ETD) from departure port+EVD] is elapsed if vessel is heading towards a European destination
- Until the period [ATD (ETD) from departure port+WVD] is elapsed if vessel is heading towards a non-EU port or unknown destination.

Active Hazmat (Non EU Departure): A Hazmat Non EU departure is considered "active" for a period:

- From ETD port of departure (if available) until ATA (ETA) port of Call, or
- From its registration (defined by the SentAt) to the system and until the ATA (or in case of non-availability of ATA, the ETA Port of Call). Conditions are:
  - ✓ [ATA (ETA) port of call) - SentAt timestamp] <= WVD (proposed 30 days)
  - ✓ In case this condition is not met the notification is active for a maximum period defined by [ATA (ETA) port of call) – WVD (planned 30 days)]

Exception 1: In the event that for a ship exist in the system:

1. A Hazmat EU Departure destination towards non EU country
2. A Hazmat non-EU Departure withLast Port = Non EU Country

If based on the definitions their "active" period is "overlapping", the end-active date for Hazmat EU departure declaration and start-active date for Hazmat non EU declaration will be adjusted as follows:

a) Should the Hazmat EU departure notification provides a "not dummy" ETA to destination port and the Hazmat non EU departure notification provides a "not dummy" ETD from the Non EU port , the ETA to destination port is ignored and system will consider as [EndActiveDateTime for Hazmat EU departure]=[ETD from Non EU port declared in Hazmat Non EU departure notification]= [StartActiveDateTime for Hazmat Non EU departure notification]
b) Should the Hazmat EU departure notification provides a not dummy ETA to destination port and there is no ETD from the Non EU port declared in the Hazmat non EU departure notification the system will consider as [EndActiveDateTime for Hazmat EU departure]=[ETA to destination declared in Hazmat EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification]
c) Should both estimated times are missing or are considered dummies the system will consider as [EndActiveDateTime for Hazmat EU departure]=[SentAt of Hazmat non EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification]

Exception 2: In the event that for a ship exist in the system:

1. A Hazmat EU departure destination towards non EU country where the ETA to destination (ETA1) is provided and is not dummy
2. A Hazmat Non-EU departure with last port = non EU country where the ETD from departure port (ETD1) is provide and it is not dummy
3. There is a logical relationship between ETA1 and ETD1 (ETA1<ETD1)

Then the active period for the Hazmat EU departure notification and Hazmat non EU departure notification will be set as follows.

i. Active period Hazmat EU departure notification: From ATD (or in case of ATA absence the ETD) from port of departure to ETA1

ii. Active period Hazmat non EU departure notification: From ETD1 to ATA (in case of absence ETA+2hours) to destination

Examples of request messages

The following examples illustrates the details of request messages of the MS2SSN_ShipCall_Req.xml type:

```
<?xml version="1.0" encoding="UTF-8"?>
<ssn:MS2SSN_ShipCall_Req xmlns:ssn="urn:eu.emsa.ssn">
    <ssn:Header Version="4.0" TestId="GRPIR01" SentAt="2018-08-24T09:05:00Z"
        From="GRPIR01" To="SafeSeaNet" MSRefId="MS2SSN_ShipCall_Req_A03"
        TimeoutValue="30" />
    <ssn:Body>
        <ssn:RequiredResponseCriteria>
            <ssn:ShipCallResp GetDetails="ExpectedCallOfSelectedShip"
                GetHazmat="HazmatDetails" />
            <ssn:SearchCriteria>
                <ssn:TimePeriodCriteria StartDateTime="2018-07-30T10:05:00Z"
                    EndDateTime="2018-08-23T10:00:00Z" />
                <ssn:ShipIdentificationCriteria
                    IMONumber="9332511" />
                <ssn:ShipCallIdentificationCriteria
                    ShipCallId="shipCallIdTEST01BR1b" />
            </ssn:SearchCriteria>
        </ssn:RequiredResponseCriteria>
    </ssn:Body>
</ssn:MS2SSN_ShipCall_Req>
```

SSN2MS_ShipCall_Req.xml message

Introduction

The **SSN2MS_ShipCall_Req.xml** message is sent by SafeSeaNet to the Member Stateholdingthe details requested (*data provider*) in order to request the relevant notification details (e.g. Hazmat, Waste or Security) about a given vessel.

This message is used by SafeSeaNet when receiving a **MS2SSN_ShipCall_Req.xml** message coming from a *data requester* and when SafeSeaNet has identified that the *data provider* (i.e. the holder of the notification details) is able to talk XML with SafeSeaNet (please refer to Table 4– for more details). The *data provider* must have implemented this XML message and its XML response accordingly.

Please note that such kind of XML request (*SSN2MS_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*MS2SSN_<SSN_Tx_Type>_Res.xml*) must be implemented by a Member State (*data provider*) in order to supply the notification details in XML format.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_ShipCall_Req - Entities	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		1
Source		1
	Requestor	1
RequiredResponseCriteria		1
ShipCallResp		0-1
	GetHazmat	0-1
	GetWaste	0-1
	GetSecurity	0-1
	GetBunkers	0-1
SearchCriteria		1
ShipIdentificationCriteria		0-1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
AdditionalSearchCriteria		1
	ShipCallId	1
	GetHazmatType	0-1
	GetBunkersType	0-1

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_ShipCall_Req - Item	Occ	Description
Header	1	
Version	1	
TestId	0-1	
SSNRefId	1	The SSNRefId is unique
SentAt	1	
TimeoutValue	1	
From	1	
To	1	
Body	1	
Source	1	This is the identification of the source of the query
Requestor	1	
RequiredResponseCriteria	1	
ShipCallResp	0-1	
GetHazmat	0-1	If provided, always “HazmatDetails”. It means that the response message should include the HAZMAT information of the specific ship call identified by its ShipCallIdunder AdditionalSearch Criteria
GetWaste	0-1	If provided, always “WasteDetails”. It means that the response message should include the Waste information of the specific ship call identified by its ShipCallIdunder AdditionalSearch Criteria To be removed following V3-V4 transition period,
GetSecurity	0-1	If provided, always “SecurityDetails”. It means that the response message should include the Security information of the specific ship call identified by its ShipCallIdunder AdditionalSearch Criteria
GetBunkers	0-1	If provided, always “BunkersDetails”. It means that the response message should include the Bunkers information of the specific ship call identified by its ShipCallIdunder AdditionalSearch Criteria
SearchCriteria	1	
ShipIdentificationCriteria	0-1	This element is to be considered for information only.
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
AdditionalSearchCriteria	1	
ShipCallId	1	Always provided. This is the reference identifier of the ship call for which details are requested.

SSN2MS_ShipCall_Req - Item	Occ	Description
GetHazmatType	0-1	Provided if GetHazmat is quoted. It specifies which Hazmatdetails are requested. Possible values: -HazmatTowardPortOfCall -HazmatTowardNextPort
GetBunkersType	0-1	Provided if GetBunkers is quoted. It specifies which Bunkers details are requested. Possible values: -BunkersTowardsPortOfCall -BunkersTowardsNextPort

Examples of request messages

The following examples illustrates the details of request messages of the SSN2MS_ShipCall_Req.xml type:

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-02-08T13:06:55Z" From="SafeSeaNet"
        To="GRPIR01" SSNRefId="2270843" TimeoutValue="30" />
    <Body>
        <Source Requestor="GRPIR01" />
        <RequiredResponseCriteria>
            <ShipCallResp GetBunkers="BunkersDetails" />
            <SearchCriteria>
                <AdditionalSearchCriteria ShipCallId="SSN_EIS_PP_20171128"
                    GetBunkersType="BunkersTowardsPortOfCall" />
            </SearchCriteria>
        </RequiredResponseCriteria>
    </Body>
</SSN2MS_ShipCall_Req>
```

MS2SSN_ShipCall_Res.xml message

Introduction

The **MS2SSN_ShipCall_Res.xml** message is sent by the Member State holding the notifications details (data provider) to SafeSeaNet in answer to its request for getting the relevant, to the request made, notification details (e.g. Hazmat, Waste or Security) about a given vessel.

Please note that such kind of XML response (MS2SSN_<SSN_Tx_Type>_Res.xml) and its corresponding XML request (SSN2MS_<SSN_Tx_Type>_Req.xml) must be implemented by a Member State (data provider) in order to supply the notification details in XML format

---

Message description

The following table describes the XML message used for the transaction.

MS2SSN_ShipCall_Res - Elements	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		0-1
ProvidedResponseCriteria		1
ShipCallResp		0-1
	GetHazmat	0-1
	GetWaste	0-1
	GetSecurity	0-1
	GetBunkers	0-1
SearchCriteria		1
ShipIdentificationCriteria		0-1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
AdditionalSearchCriteria		1
	ShipCallId	1
	GetHazmatType	0-1
	GetBunkersType	0-1
QueryResults		0-1
VesselIdentification		1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1

MS2SSN_ShipCall_Res - Elements	Attributes	Occ
	ShipName	0-1
	Flag	0-1
VoyageInformation		1
	ShipCallId	1
	LastPort	0-1
	PortOfCall	1
	PositionInPortOfCall	0-1
	PortFacilityLocode	0-1
	PortFacility	0-1
	ETDFromLastPort	0-1
	ETAToPortOfCall	0-1
	ETDFromPortOfCall	0-1
	NextPort	0-1
	ETAToNextPort	0-1
	BriefCargoDescription	0-1
PurposeOfCall		0-9
	CallPurposeCode	1
HazmatInformation		0-1
HazmatSummary		0-1
	INFShipClass	0-1
DG		0-99
	DGClassification	1
HazmatDetails		1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
CargoInformation		1
Consignment		0-∞
	TransportDocumentID	0-1
	PortOfLoading	0-1
	PortOfDischarge	0-1
DPGItem		1-∞
	DGClassification	1
	TextualReference	1
	IMOHazardClass	0-1
	UNNumber	0-1
	PackingGroup	0-1
	FlashPoint	0-1
	MarpolCode	0-1
	PackageType	0-1
	TotalNrOfPackages	0-1
	AdditionalInformation	0-1
EmS		0-5
	EmSNumber	1
SubsidiaryRisks		0-5
	SubsidiaryRisk	1
TotalQuantityGross		0-1
	UnitOfMeasurement	1
	Quantity	1
TotalQuantityNet		0-1
	UnitOfMeasurement	1

MS2SSN_ShipCall_Res - Elements	Attributes	Occ
	Quantity	1
TransportEquipmentUnit		0-∞
	TransUnitId	1
	LocationOnBoard	1
	NoOfPackages	0-1
	QuantityGross	0-1
	UnitOfMeasurement	1
	Quantity	1
	QuantityNet	0-1
	UnitOfMeasurement	1
	Quantity	1
NonTransportEquipmentUnit		0-∞
	LocationOnBoard	1
	NoOfPackages	0-1
	QuantityGross	0-1
	UnitOfMeasurement	1
	Quantity	1
	QuantityNet	0-1
	UnitOfMeasurement	1
	Quantity	1
WasteInformation		0-1
WasteSummary		0-1
	LastPortDelivered	0-1
	LastPortDeliveredDate	0-1
	WasteDeliveryStatus	1
WasteDetails		1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
WasteItem		0-∞
	PortDeliveryRemainingWaste	0-1
WasteType		1
	WasteCode	1
	WasteDescription	0-1
ToBeDelivered		1
	UnitOfMeasurement	1
	Quantity	1
MaxStorage		0-1
	UnitOfMeasurement	1
	Quantity	1
RetainedOnBoard		0-1
	UnitOfMeasurement	1
	Quantity	1
EstimateGenerated		0-1
	UnitOfMeasurement	1
	Quantity	1
SecurityInformation		0-1
SecuritySummary		0-1
	CurrentSecurityLevel	1
Agent in port at arrival		0-1

MS2SSN_ShipCall_Res - Elements	Attributes	Occ
	AgentName	1
	Phone	0-1
	Fax	0-1
	EMail	0-1
SecurityDetails		1
	ValidISSC	1
	ReasonForNoValid ISSC	0-1
	ApprovedSecurityPlan	1
	SecurityRelatedMatterToReport	0-1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
CSO		1
	FirstName	0-1
	LastName	1
	Phone	0-1
	Fax	0-1
	EMail	0-1
ISSC		0-1
	ISSCType	1
	IssuerType	0-1
	Issuer	1
	ExpiryDate	1
PreviousCallAtPortFacility		0-∞
	Port	1
	DateOfArrival	1
	DateOfDeparture	1
	PortFacilityLocode	0-1
	PortFacility	1
	SecurityLevel	1
	SpecialOrAdditionalSecurityMeasures	0-1
ShipToShipActivity		0-∞
	DateFrom	1
	DateTo	1
	Activity	1
	SecurityMeasures	0-1
Location		1
	LoCode	0-1
	Latitude	0-1
	Longitude	0-1
	LocationName	0-1
BunkersInformation		0-1
BunkerItem		1-∞
	BunkerType	1
	BunkerDescription	0-1
	Quantity	1
	UnitOfMeasurement	1

Business Rules The following rules apply to the MS2SSN_ShipCall_Reqmessage:

No.	General Rule applicable to the MS2SSN_ShipCall_Resmessage
1	The response message should always provide the latest update information registered in national SSN system for the PortPlus notification identified by the ShipCallId.

Business Rules The following table describes the business rules applied to the message. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_ShipCall_Res - Item	Occ	Description
Header	1	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique per MS. If the MSRefId was already used in a message sent by the MS to the Central SSN System, the message is rejected.
SSNRefId	1	This is the SSNRefId as in the SSN2MS_ShipCalll_Req.xml message
SentAt	1	
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	0-1	Mandatory unless StatusCode=”InvalidFormat”
ProvidedResponseCriteria	1	It defines the query as received from SSN. Content should be as in the SSN2MS_ShipCall_Req.xmlmessage
ShipCallResp	0-1	
GetHazmat	0-1	
GetWaste	0-1	To be removed following V3-V4 transition period,
GetSecurity	0-1	
GetBunkers	0-1	
SearchCriteria	1	
ShipIdentificationCriteria	0-1	
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
AdditionalSearchCriteria	1	
ShipCallId	1	
GetHazmatType	0-1	
GetBunkersType	0-1	
QueryResults	0-1	- It includes the results of the query defined in the MS2SSN_ShipCall_Req.xml message. - This element is not provided when the query does not have any result.

MS2SSN_ShipCall_Res - Item	Occ	Description
VesselIdentification	1	Values in this elements should be the latest update registered in NCA database for the PortPlus notification identified by the ShipCallId
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
VoyageInformation	1	Values in this elements should be the latest update registered in NCA database for the PortPlus notification identified by the ShipCallId
ShipCallId	1	
LastPort	0-1	
PortOfCall	1	
PositionInPortOfCall	0-1	
PortFacilityLocode	0-1	
PortFacility	0-1	Mandatory if PortFacilityLocode provided
ETDFromLastPort	0-1	
ETAToPortOfCall	0-1	
ETDFromPortOfCall	0-1	
NextPort	0-1	
ETAToNextPort	0-1	
BriefCargoDescription	0-1	
PurposeOfCall	0-9	
CallPurposeCode	1	
HazmatInformation	0-1	Latest Hazmat information registered in the NCA database for this ShipCallId. To be provided if GetHazmat = “HazmatDetails”
HazmatSummary	0-1	
INFShipClass	0-1	
DG	0-99	
DGClassification	1	
HazmatDetails	1	
Source	1	This is the source of the latest update of Hazmat information registered in the NCA database
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
CargoInformation	1	
Consignment	0-∞	
TransportDocumentID	0-1	
PortOfLoading	0-1	

MS2SSN_ShipCall_Res - Item	Occ	Description
PortOfDischarge	0-1	
DPGItem	1-∞	
DGClassification	1	Depending on the DGClassification(IMO Code). For guidance on reporting the classification of dangerous and polluting goods refer to the SSN Guidelines on Reporting HAZMAT.
TextualReference	1	
IMOHazardClass	0-1	Mandatory if DGClassification=”IMDG” or “IBC” or “IMSBC”
UNNumber	0-1	Mandatory if DGClassification=”IMDG”
PackingGroup	0-1	
FlashPoint	0-1	
MarpolCode	0-1	
PackageType	0-1	
TotalNrOfPackages	0-1	
AdditionalInformation	0-1	
EmS	0-5	
EmSNumber	1	
SubsidiaryRisks	0-5	
SubsidiaryRisk	1	
TotalQuantityGross	0-1	
UnitOfMeasurement	1	
Quantity	1	
TotalQuantityNet	0-1	
UnitOfMeasurement	1	
Quantity	1	
TransportEquipmentUnit	0-∞	Recommendation: should be provided if *NonTransportEquipmentUnit* not present
TransUnitId	1	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if *QuantityNet*not present.
UnitOfMeasurement	1	
Quantity	1	
QuantityNet	0-1	Mandatory if *QuantityGross*not present.
UnitOfMeasurement	1	
Quantity	1	
NonTransportEquipmentUnit	0-∞	Recommendation: should be provided if *TransportEquipmentUnit* not present
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if *QuantityNet* not present.
UnitOfMeasurement	1	
Quantity	1	
QuantityNet	0-1	Mandatory if *QuantityGross* not present.

MS2SSN_ShipCall_Res - Item	Occ	Description
UnitOfMeasurement	1	
Quantity	1	
WasteInformation	0-1	Latest Waste information registered in the NCA database for this ShipCallId. To be provided if GetWaste = “WasteDetails” To be removed following V3-V4 transition period,
WasteSummary	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
WasteDetails	1	
Source	1	This is the source of the latest update of Waste information registered in the NCA database
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
WasteItem	0-∞	One WasteItem per Waste Type on board.
PortDeliveryRemainingWaste	0-1	Recommendation: should be provided if WasteDeliveryStatus = "Some" or "None" for the specific WasteItem
WasteType	1	
WasteCode	1	
WasteDescription	0-1	Recommendation: should be provided for some WasteCode as specified in the table in Annex B (indicated in column “Free text description needed”)
ToBeDelivered	1	
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**”
Quantity	1	
MaxStorage	0-1	Mandatory if WasteDeliveryStatus = "Some" or "None"
UnitOfMeasurement	1	Recommendation: Advisabel to use“**M3**”
Quantity	1	
RetainedOnBoard	0-1	Mandatory if WasteDeliveryStatus = "Some" or "None"
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**”
Quantity	1	
EstimateGenerated	0-1	Mandatory if WasteDeliveryStatus = "Some" or "None"
UnitOfMeasurement	1	Recommendation: Advisable to use“**M3**”
Quantity	1	
SecurityInformation	0-1	Latest Security information registered in the NCA database for this ShipCallId. To be provided if GetSecurity = “SecurityDetails”
SecuritySummary	0-1	
CurrentSecurityLevel	1	
AgentInPortAtArrival	0-1	
AgentName	1	
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email)
Fax	0-1	
EMail	0-1	
SecurityDetails	1	
ValidISSC	1	
ReasonForNoValid ISSC	0-1	Mandatory if ValidISSC=”N”

MS2SSN_ShipCall_Res - Item	Occ	Description
ApprovedSecurityPlan	1	
SecurityRelatedMatterToReport	0-1	
Source	1	This is the source of the latest update of Security information registered in the NCA database
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
CSO	1	
FirstName	0-1	
LastName	1	
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email)
Fax	0-1	
EMail	0-1	
ISSC	0-1	Mandatory unless ValidISSC=”N”
ISSCType	1	
IssuerType	0-1	
Issuer	1	
ExpiryDate	1	
PreviousCallAtPortFacility	0-∞	Recommendation: At least the last 10 previous calls at port facilities should be provided (i.e. in case of new ship, the number might be less)
Port	1	
DateOfArrival	1	
DateOfDeparture	1	
PortFacilityLocode	0-1	
PortFacility	1	
SecurityLevel	1	
SpecialOrAdditionalSecurityMeasures	0-1	
ShipToShipActivity	0-∞	Recommendation: At least the ship to ship activities during the last 10 previous calls at port facilities should be provided.
DateFrom	1	
DateTo	1	
Activity	1	
SecurityMeasures	0-1	
Location	1	At least one Location element must be provided (LoCode, Latitude/Longitude or LocationName)
LoCode	0-1	
Latitude	0-1	Mandatory if Longitude is provided
Longitude	0-1	Mandatory if Latitude is provided
LocationName	0-1	
BunkersInformation	0-1	Latest Bunkers information registered in the NCA database for this ShipCallId. To be provided if GetBunkers = “BunkersDetails”
BunkerItem	1-∞	One BunkerItem per Bunker Type on board
BunkerType	1	
BunkerDescription	0-1	Mandatory if BunkerType=”**Other**”
Quantity	1	
UnitOfMeasurement	1	Use“**TNE**” or “**M3**”

Examples of response messages

The following examples illustrates the details of request messages of the MS2SSN_ShipCall_Res.xml type:

```
<?xml version="1.0" encoding="UTF-8"?>
<urn:MS2SSN_ShipCall_Res xmlns:urn="urn:eu.emsa.ssn">
    <urn:Header From="thanosId" MSRefId="MSS_WASTE_20180202_5"
        SSNRefId="2265434" SentAt="2018-02-02T10:30:20" StatusCode="OK"
        To="SafeSeaNet" Version="4.0" />
    <urn:Body>
        <urn:ProvidedResponseCriteria>
            <urn:ShipCallResp GetWaste="WasteDetails" />
            <urn:SearchCriteria>
                <urn:ShipIdentificationCriteria
                    IMONumber="7411650" />
                <urn:AdditionalSearchCriteria
                    ShipCallId="SSN_EIS_SI_20180202a" />
            </urn:SearchCriteria>
        </urn:ProvidedResponseCriteria>
        <urn:QueryResults>
            <urn:VesselIdentification IMONumber="7411650" />
            <urn:VoyageInformation ETAToNextPort="2017-08-11T14:26:15Z"
                ETAToPortOfCall="2017-08-07T12:26:15Z" ETDFromLastPort="2017-08-02T14:26:15Z"
                ETDFromPortOfCall="2017-08-07T14:26:15Z" LastPort="GR333" NextPort="GRLAV"
                PortOfCall="GRAGF" PositionInPortOfCall="marine" ShipCallId="SSN_EIS_SI_20180202a">
                <urn:PurposeOfCall CallPurposeCode="10" />
                <urn:PurposeOfCall CallPurposeCode="11" />
            </urn:VoyageInformation>
            <urn:WasteInformation>
                <urn:WasteSummary LastPortDelivered="GRITA"
                    LastPortDeliveredDate="2018-07-16" WasteDeliveryStatus="All" />
                <urn:WasteDetails>
                    <urn:Source LastUpdateReceivedAt="2017-08-05T10:00:00"
                        ProviderOfLastUpdate="GRPIR01" />
                    <urn:WasteItem PortDeliveryRemainingWaste="GRPIR">
                        <urn:WasteType WasteCode="1100" />
                        <urn:ToBeDelivered Quantity="126.17"
                            UnitOfMeasurement="KGM" />
                        <urn:MaxStorage Quantity="183.15"
                            UnitOfMeasurement="TNE" />
                    </urn:WasteItem>
                </urn:WasteDetails>
            </urn:WasteInformation>
        </urn:QueryResults>
    </urn:Body>
</urn:MS2SSN_ShipCall_Res>
```

SSN2MS_ShipCall_Res.xml message

Introduction

The **SSN2MS_ShipCall_Res.xml** message is the final response sent by SafeSeaNet to a Member State requesting the operational information stored in SSN (at EIS or national level;) about a given vessel, a given port, a specified time period and/or a combination of the three (*data requester*).

Please note that such kind of XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
Header		1
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefld	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		0-1
ProvidedResponseCriteria		1
ShipCallResp		0-1
	GetDetails	1
	GetHazmat	0-1
	GetWaste	0-1
	GetSecurity	0-1
	GetBunkers	0-1
SearchCriteria		1
TimePeriodCriteria		0-1
	StartDateTime	0-1
	EndDateTime	0-1
ShipIdentificationCriteria		0-1
	IMONumber	0-1
	MMSINumber	0-1
PortOfCallIdentificationCriteria		0-1
	PortOfCall	1
ShipCallIdentificationCriteria		0-1
	ShipCallId	0-1
	NumberOfCalls	0-1

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
QueryResults		0-1
PortPlusNotificationList		0-∞
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
VesselIdentification		1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
VoyageInformation		1
	ShipCallId	1
	LastPort	0-1
	PortOfCall	1
	PositionInPortOfCall	0-1
	PortFacilityLocode	0-1
	PortFacility	0-1
	ETDfromLastPort	0-1
	ETAToPortOfCall	0-1
	ETDFromPortOfCall	0-1
	NextPort	0-1
	ETAToNextPort	0-1
	BriefCargoDescription	0-1
PurposeOfCall		0-9
	CallPurposeCode	1
VesselDetails		0-1
	GrossTonnage	0-1
	ShipType	0-1
InmarsatCallNumber		0-5
	Inmarsat	1
CertificateOfRegistry		0-1
	IssueDate	0-1
	CertificateNumber	0-1
PortOfRegistry		0-1
	LoCode	0-1
	LocationName	0-1
Company		0-1
	CompanyName	0-1
	IMOCompanyNr	0-1
PreArrival3DaysNotificationDetails		0-1
	PossibleAnchorage	0-1
	PlannedOperations	0-1
	PlannedWorks	0-1
	ShipConfiguration	0-1
	CargoVolumeNature	0-1
	ConditionCargoBallastTanks	0-1
PreArrival24HoursNotificationDetails		0-1
	POBVoyageTowardsPortOf Call	1

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
ArrivalNotificationDetails		0-1
	ATAPortOfCall	1
	Anchorage	0-1
DepartureNotificationDetails		0-1
	ATDPortOfCall	0-1
	POBVoyageTowardsNextPort	0-1
HazmatConfirmation		1
	HazmatOnBoardYorN	1
WasteConfirmation		0-1
	LastPortDelivered	0-1
	LastPortDeliveredDate	0-1
	WasteDeliveryStatus	1
SecurityConfirmation		0-1
	CurrentSecurityLevel	1
Agent in port at arrival		0-1
	AgentName	1
	Phone	0-1
	Fax	0-1
	EMail	0-1
BunkersConfirmation		0-1
	BunkersReportedYorN	1
PortPlusNotificationDetails		0-1
Exemptions		0-1
ExemptionDetails		1-n
	ExemptionType	1
	CompanyName	1
	DateFrom	1
	DateTo	1
Route		1-∞
	Port	1
ExemptedWasteTypes		0-∞
	WasteCode	1
	WasteDescription	0-1
ExemptionAppliesTo		0-∞
	Port	1
ExemptedPortFacilities		0-∞
	PortFacilityLocode	1
	PortFacility	1
Authority		1
	Country	1
	AuthorityType	1
	AuthorityName	1
Contact24/7		1
	FirstName	0-1
	LastName	0-1
	LoCode	0-1
	Phone	0-1
	Fax	0-1
	EMail	0-1
HazmatInformation		0-1

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
HazmatSummary		0-1
	INFShipClass	0-1
DG		0-99
	DGClassification	1
HazmatDetails		0-1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
	ShipCallId	1
CargoInformation		1
Consignment		0-∞
	TransportDocumentID	0-1
	PortOfLoading	0-1
	PortOfDischarge	0-1
DPGItem		1-∞
	DGClassification	1
	TextualReference	1
	IMOHazardClass	0-1
	UNNumber	0-1
	PackingGroup	0-1
	FlashPoint	0-1
	MarpolCode	0-1
	PackageType	0-1
	TotalNrOfPackages	0-1
	AdditionalInformation	0-1
EmS		0-5
	EmSNumber	1
SubsidiaryRisks		0-5
	SubsidiaryRisk	1
TotalQuantityGross		0-1
	UnitOfMeasurement	1
	Quantity	1
TotalQuantityNet		0-1
	UnitOfMeasurement	1
	Quantity	1
TransportEquipmentUnit		0-∞
	TransUnitId	1
	LocationOnBoard	1
	NoOfPackages	0-1
QuantityGross		0-1
	UnitOfMeasurement	1
	Quantity	1
QuantityNet		0-1
	UnitOfMeasurement	1
	Quantity	1
NonTransportEquipmentUnit		0-∞
	LocationOnBoard	1
	NoOfPackages	0-1
QuantityGross		0-1
	UnitOfMeasurement	1

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
	Quantity	1
QuantityNet		0-1
	UnitOfMeasurement	1
	Quantity	1
CargoManifest		0-1
UrlDetails		0-1
	Url	1
	DocType	1
ContactDetails		0-1
	LastName	0-1
	FirstName	0-1
	LoCode	0-1
	Phone	1
	Fax	0-1
	EMail	0-1
WasteInformation		0-1
WasteSummary		0-1
	LastPortDelivered	0-1
	LastPortDeliveredDate	0-1
	WasteDeliveryStatus	1
WasteDetails		0-1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
	ShipCallId	1
WasteItem		0-∞
	PortDeliveryRemainingWaste	0-1
WasteType		1
	WasteCode	1
	WasteDescription	0-1
ToBeDelivered		1
	UnitOfMeasurement	1
	Quantity	1
MaxStorage		0-1
	UnitOfMeasurement	1
	Quantity	1
RetainedOnBoard		0-1
	UnitOfMeasurement	1
	Quantity	1
EstimateGenerated		0-1
	UnitOfMeasurement	1
	Quantity	1
DeliveredAtLastPort		0-1
	UnitOfMeasurement	1
	Quantity	1
SecurityInformation		0-1
SecuritySummary		0-1
	CurrentSecurityLevel	1
AgentInPortAtArrival		0-1
	AgentName	1
	Phone	0-1

SSN2MS_ShipCall_Res - Elements	Attributes	Occ
	Fax	0-1
	EMail	0-1
SecurityDetails		0-1
	ValidISSC	1
	ReasonForNoValidISSC	0-1
	ApprovedSecurityPlan	1
	SecurityRelatedMatterToReport	0-1
Source		1
	ProviderOfLastUpdate	1
	LastUpdateReceivedAt	1
	ShipCallId	1
CSO		1
	FirstName	0-1
	LastName	1
	Phone	0-1
	Fax	0-1
	EMail	0-1
ISSC		0-1
	ISSCType	1
	IssuerType	0-1
	Issuer	1
	ExpiryDate	1
PreviousCallAtPortFacility		0-∞
	Port	1
	DateOfArrival	1
	DateOfDeparture	1
	PortFacilityLocode	0-1
	PortFacility	1
	SecurityLevel	1
	SpecialOrAdditionalSecurityMeasures	0-1
ShipToShipActivity		0-∞
	DateFrom	1
	DateTo	1
	Activity	1
	SecurityMeasures	0-1
Location		1
	LoCode	0-1
	Latitude	0-1
	Longitude	0-1
	LocationName	0-1
BunkersInformation		0-1
BunkerItem		1-∞
	BunkerType	1
	BunkerDescription	0-1
	Quantity	1
	UnitOfMeasurement	1

Business Rules The following rules apply to the SSN2MS_ShipCall_Res message:

No.	General Rule applicable to the SSN2MS_ShipCall_Res message
1	When details from a ship call regarding notifications (hazmat, waste or security) are requested and SSN Central holds information regarding a relevant exemption for such notification, SSN Central indicates in the result the information it holds regarding the exemption. An exemption is considered as relevant for a ship call if: - it applies to the ship, - its exempted ports (reported in ***"ExemptionAppliesTo"***) include the Port Of Call, and - its validity period covers the ATAPortOfCall or the ETAToPortOfCall in the case of pre-arrival notifications, and covers the ATDPortOfCall or the ETDFromPortOfCall in the case of notifications at departure.

Business Rules The following table describes the business rules applied to the message. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_ShipCall_Res - Item	Occ	Description
Header	1	
Version	1	
TestId	0-1	
MSRefId	1	This is the MSRefId as in the MS2SSN_ShipCall_Req.xml message
SSNRefld	1	The SSNRefId is unique
SentAt	1	
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	0-1	Mandatory unless StatusCode="InvalidFormat"
ProvidedResponseCriteria	1	It defines the query as received by SSN. Content is as in the MS2SSN_ShipCall_Req.xml message
ShipCallResp	0-1	
GetDetails	1	
GetHazmat	0-1	
GetWaste	0-1	
GetSecurity	0-1	
GetBunkers	0-1	
SearchCriteria	1	
TimePeriodCriteria	0-1	
StartDateTime	0-1	
EndDateTime	0-1	
ShipIdentificationCriteria	0-1	
IMONumber	0-1	
MMSINumber	0-1	
PortOfCallIdentificationCriteria	0-1	
PortOfCall	1	
ShipCallIdentificationCriteria	0-1	
ShipCallId	0-1	

SSN2MS_ShipCall_Res - Item	Occ	Description
NumberOfCalls	0-1	
QueryResults	0-1	- It includes the results of the query as defined in the MS2SSN_ShipCall_Req.xml message. - Not provided if the query has no result.
PortPlusNotificationList	0-∞	- These are the matching ship calls.Depending on the query, this may be a unique ship call or several. - Each record provides the latest consolidated PortPlus notification stored in central SSN system corresponding to the ShipCallId.
Source	1	
ProviderOfLastUpdate	1	As indicated in the From attribute of the latest PortPlus notification
LastUpdateReceivedAt	1	Date and time of receipt of the latest PortPlus notification
VesselIdentification	1	
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
VoyageInformation	1	
ShipCallId	1	
LastPort	0-1	
PortOfCall	1	
PositionInPortOfCall	0-1	
PortFacilityLocode	0-1	
PortFacility	0-1	
ETDFromLastPort	0-1	
ETAToPortOfCall	0-1	
ETDFromPortOfCall	0-1	
NextPort	0-1	
ETAToNextPort	0-1	
BriefCargoDescription	0-1	
PurposeOfCall	0-9	
CallPurposeCode	1	
VesselDetails	0-1	
GrossTonnage	0-1	
ShipType	0-1	
InmarsatCallNumber	0-5	

SSN2MS_ShipCall_Res - Item	Occ	Description
Inmarsat	1	
CertificateOfRegistry	0-1	
IssueDate	0-1	
CertificateNumber	0-1	
PortOfRegistry	0-1	
LoCode	0-1	
LocationName	0-1	
Company	0-1	
CompanyName	0-1	
IMOCompanyNr	0-1	
PreArrival3DaysNotification Details	0-1	
PossibleAnchorage	0-1	
PlannedOperations	0-1	
PlannedWorks	0-1	
ShipConfiguration	0-1	
CargoVolumeNature	0-1	
ConditionCargoBallastTanks	0-1	
PreArrival24HoursNotification Details	0-1	
POBVoyageTowardsPortOfCall	1	
ArrivalNotificationDetails	0-1	
ATAPortOfCall	1	
Anchorage	0-1	
DepartureNotificationDetails	0-1	
ATDPortOfCall	0-1	
POBVoyageTowardsNextPort	0-1	
HazmatConfirmation	1	
HazmatOnBoardYorN	1	latest update of the attribute registered in SSN EIS notification database for the voyage towards the PortOfCall identified in the voyage element of this response message
WasteConfirmation	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
SecurityConfirmation	0-1	
CurrentSecurityLevel	1	
Agent in port at arrival	0-1	
AgentName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
BunkersConfirmation	0-1	
BunkersReportedYorN	1	latest update of the attribute registered in SSN EIS notification database for the voyage towards the PortOfCall identified in the voyage element of this response message
PortPlusNotificationDetails	0-1	- Provided only if the query included the GetHazmat, GetWaste or GetSecurity attributes. (Query result is a unique ship call)

SSN2MS_ShipCall_Res - Item	Occ	Description
		- It includes the detailed or summary Hazmat, Waste and Security information, and information on exemptions.
Exemptions	0-1	This is the details of relevant exemptions recorded for that ship in the Central SSN System (see general business rules above)
ExemptionDetails	1-n	
ExemptionType	1	
CompanyName	1	
DateFrom	1	
DateTo	1	
Route	1-∞	
Port	1	
ExemptedWasteTypes	0-∞	
WasteCode	1	
WasteDescription	0-1	
ExemptionAppliesTo	0-∞	
Port	1	
ExemptedPortFacilities	0-∞	
PortFacilityLocode	1	
PortFacility	1	
Authority	1	
Country	1	
AuthorityType	1	
AuthorityName	1	
Contact24/7	1	
FirstName	0-1	
LastName	0-1	
Locode	0-1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
HazmatInformation	0-1	- Provided if GetHazmat is included. - If GetHazmat = “HazmatSummary”, this the latest update registered in Central SSN System notification database for the voyage towards the PortOfCall identified in the voyage element - If GetHazmat = “HazmatDetails”, this is the Hazmat details as provided by the relevant NCA on request.
HazmatSummary	0-1	
INFShipClass	0-1	
DG	0-99	
DGClassification	1	
HazmatDetails	0-1	Provided if GetHazmat = “HazmatDetails”.
Source	1	
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
ShipCallId	1	
CargoInformation	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
Consignment	0-∞	
TransportDocumentID	0-1	
PortOfLoading	0-1	
PortOfDischarge	0-1	
DPGItem	1-∞	
DGClassification	1	
TextualReference	1	
IMOHazardClass	0-1	
UNNumber	0-1	
PackingGroup	0-1	
FlashPoint	0-1	
MarpolCode	0-1	
PackageType	0-1	
TotalNrOfPackages	0-1	
AdditionalInformation	0-1	
EmS	0-5	
EmSNumber	1	
SubsidiaryRisks	0-5	
SubsidiaryRisk	1	
TotalQuantityGross	0-1	
UnitOfMeasurement	1	
Quantity	1	
TotalQuantityNet	0-1	
UnitOfMeasurement	1	
Quantity	1	
TransportEquipmentUnit	0-∞	
TransUnitId	1	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	
UnitOfMeasurement	1	
Quantity	1	
QuantityNet	0-1	
UnitOfMeasurement	1	
Quantity	1	
NonTransportEquipmentUnit	0-∞	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if *QuantityNet* not present.
UnitOfMeasurement	1	
Quantity	1	
QuantityNet	0-1	Mandatory if *QuantityGross* not present.
UnitOfMeasurement	1	
Quantity	1	
CargoManifest	0-1	This is the detailed information on the polluting and dangerous cargo manifest, as in the latest consolidated PortPlus notification stored in central SSN system corresponding to the ShipCallId. The cargo manifest is available either as a document on a web server or via a phone/fax/Email.

SSN2MS_ShipCall_Res - Item	Occ	Description
UrlDetails	0-1	Mandatory if ContactDetails is not provided
Url	1	Provides a URL located at central SSN server masking the original URL provided in the PortPlus Notification of the data provider. The data requestor system may utilise this URLto communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details.
DocType	1	
ContactDetails	0-1	Mandatory if UrlDetails is not provided
LastName	0-1	
FirstName	0-1	
LoCode	0-1	
Phone	1	
Fax	0-1	
EMail	0-1	
WasteInformation	0-1	- Provided if GetWaste is included. - If GetWaste = “WasteSummary”, this the latest update registered in Central SSN System notification database for the voyage towards the PortOfCall identified in the voyage element - If GetWaste = “WasteDetails”, this is the Waste details as provided by the relevant NCA on request.
WasteSummary	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
WasteDetails	0-1	Provided if GetWaste = “WasteDetails”.
Source	1	
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
ShipCallId	1	
WasteItem	0-∞	
PortDeliveryRemainingWaste	0-1	
WasteType	1	
WasteCode	1	
WasteDescription	0-1	
ToBeDelivered	1	
UnitOfMeasurement	1	
Quantity	1	
MaxStorage	0-1	
UnitOfMeasurement	1	
Quantity	1	
RetainedOnBoard	0-1	
UnitOfMeasurement	1	
Quantity	1	
EstimateGenerated	0-1	
UnitOfMeasurement	1	
Quantity	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
DeliveredAtLastPort	0-1	To become mandatory following V3-V4 transition period,
UnitOfMeasurement	1	
Quantity	1	
SecurityInformation	0-1	- Provided if GetSecurity is included. - If GetSecurity = “SecuritySummary”, this the latest update registered in Central SSN System notification database for the voyage towards the PortOfCall identified in the voyage element - If GetSecurity = “SecurityDetails”, this is the Security details as provided by the relevant NCA on request.
SecuritySummary	0-1	
CurrentSecurityLevel	1	
AgentInPortAtArrival	0-1	
AgentName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
SecurityDetails	0-1	Provided if GetSecurity = “SecurityDetails”.
ValidISSC	1	
ReasonForNoValid ISSC	0-1	
ApprovedSecurityPlan	1	
SecurityRelatedMatterToReport	0-1	
Source	1	
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
ShipCallId	1	
CSO	1	
FirstName	0-1	
LastName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
ISSC	0-1	
ISSCType	1	
IssuerType	0-1	
Issuer	1	
ExpiryDate	1	
PreviousCallAtPortFacility	0-∞	
Port	1	
DateOfArrival	1	
DateOfDeparture	1	
PortFacilityLocode	0-1	
PortFacility	1	
SecurityLevel	1	
SpecialOrAdditionalSecurityMeasures	0-1	
ShipToShipActivity	0-∞	
DateFrom	1	
DateTo	1	
Activity	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
SecurityMeasures	0-1	
Location	1	
LoCode	0-1	
Latitude	0-1	
Longitude	0-1	
LocationName	0-1	
BunkersInformation	0-1	- Provided if GetBunkers is included. - GetBunkers = "BunkersDetails", this is the Bunkers details as provided by the relevant NCA on request.
BunkerItem	1-∞	
BunkerType	1	
BunkerDescription	0-1	
Quantity	1	
UnitOfMeasurement	1	

Examples of request messages

The following examples illustrates the details of request messages of the SSN2MS_ShipCall_Res.xml type:

```
<?xml version="1.0" encoding="UTF-8"?><SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-01-16T10:10:26Z" From="SafeSeaNet" To="GRPIR01"
    MSRefId="ShipCall_Req_Active_Waste_12" SSNRefId="2259977" StatusCode="OK" />
    <Body><ProvidedResponseCriteria>
            <ShipCallResp GetDetails="GetActiveWasteForSelectedShip" GetWaste="WasteDetails" />
            <SearchCriteria><TimePeriodCriteria StartDateTime="2018-01-16T11:00:00Z" />
                <ShipIdentificationCriteria IMONumber="9354284"
                    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="VesselIdentificationType" />
            </SearchCriteria></ProvidedResponseCriteria>
        <QueryResults>
            <PortPlusNotificationList>
                <Source ProviderOfLastUpdate="GRPIR01" LastUpdateReceivedAt="2017-12-15T08:53:12Z" />
                <VesselIdentification IMONumber="9354284" MMSINumber="276673000" CallSign="ESCK" ShipName="BALTIC PRINCESS" />
                <VoyageInformation ShipCallId="SSN_EIS_PP_20171128" LastPort="PTSET" PortOfCall="GRLAV" PositionInPortOfCall="marin
                    ETDFromLastPort="2017-12-13T16:35:22Z" ETAToPortOfCall="2018-01-22T14:35:22Z" NextPort="PTLIS"
                    ETAToNextPort="2017-12-16T16:35:22Z" ETDFromPortOfCall="2017-12-15T16:35:22Z" />
                <PreArrival3DaysNotificationDetails
                    CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance"
                    ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT" />
                <PreArrival24HoursNotificationDetails
                    POBVoyageTowardsPortOfCall="123" />
                <HazmatConfirmation HazmatOnBoardYorN="N" />
                <WasteConfirmation LastPortDelivered="GR000" LastPortDeliveredDate="2017-12-13Z" WasteDeliveryStatus="All" />
                <BunkersConfirmation BunkersReportedYorN="Y" />
            </PortPlusNotificationList>
            <PortPlusNotificationDetails>
                <WasteInformation>
                <WasteSummary LastPortDelivered="GR000" LastPortDeliveredDate="2017-12-13Z" WasteDeliveryStatus="All" />
                    <WasteDetails>
                        <Source ProviderOfLastUpdate="thanosId"
                        LastUpdateReceivedAt="2017-08-07T10:00:00Z" ShipCallId="SSN_EIS_PP_20171128" />
                        <WasteItem PortDeliveryRemainingWaste="GRLAV">
                            <WasteType WasteCode="1300" WasteDescription="Waste oils" />
                            <ToBeDelivered UnitOfMeasurement="KGM" Quantity="123.12" />
                            <MaxStorage UnitOfMeasurement="KGM" Quantity="123.12" />
                            <RetainedOnBoard UnitOfMeasurement="KGM" Quantity="123.12" />
                            <EstimateGenerated UnitOfMeasurement="KGM" Quantity="123.12" />
                            <DeliveredAtLastPort UnitOfMeasurement="KGM" Quantity="123.12" />
                        </WasteItem>
                    </WasteDetails>
                </WasteInformation>
            </PortPlusNotificationDetails>
        </QueryResults>
    </Body></SSN2MS_ShipCall_Res>
```

Section 3.8 - Get Incident Report Notification Details

Overview

Introduction

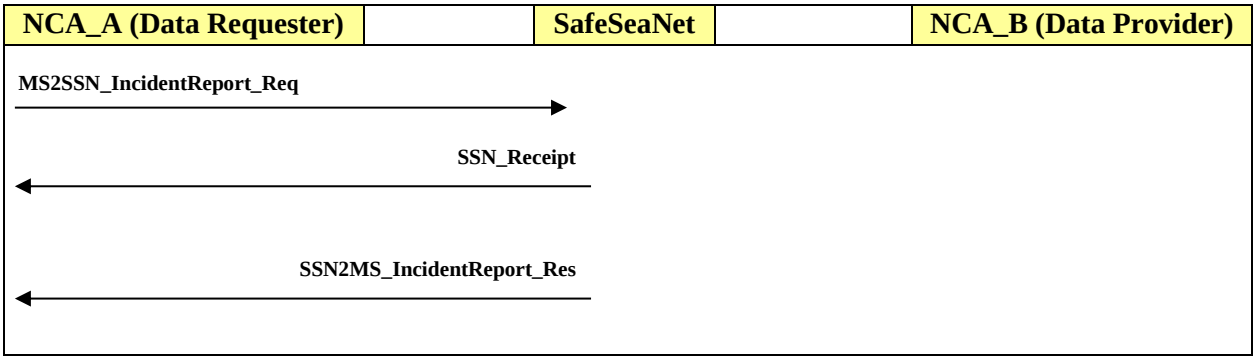
A Member State may ask SafeSeaNet to get the details relative to IncidentDetail notification(s) sent by a data provider. Such service is implemented by exchanging different XML messages between the *data requester* and the SafeSeaNet system.

The messages are used by the "Information Requests" process (see page 35)

This section describes the different XML messages provided for this transaction.

General flow of the XML messages

The following figure outlines the expected **asynchronous** flow (except the SSN_Receipts which are **synchronous** messages) of XML messages related to this SafeSeaNet XML transaction. You may notice that, as SafeSeaNet has all the Incident notification details in its database (stored when receiving the *MS2SSN_IncindetDetail_Not.xml* notification message from the *data provider*), there is no need to ask the *data provider* for the details.



MS2SSN_IncidentReport_Req.xml message

Introduction

The **MS2SSN_IncidentReport_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the latest Incident Reportabout a given vessel.

The maximum number of Incidents in a *SSN2MS_IncidentReport_Res* message is limited to the 10 latest incidents identified by the “GetIRInformation" element specified in Table 5 below.

Please note that such kind of XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_IncidentReport_Req - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		***1***
IRQueryCriteria		***1***
TypeOfQuery		***1***
	GetIRInformation	1
IncidentSelectionCriteria		***0-1***
	IncidentID	0-1
IncidentSelectionType		0-N[3]
	Type	1
ShipIdentificationCriteria		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
TimePeriodCriteria		***0-1***

[3]N equals to the number of Incident Types

MS2SSN_IncidentReport_Req - Elements			Attributes	Occ
			StartDateTime	1
			EndDateTime	1
		GeographicCriteria		***0-1***
			PortOfDepartureQuotedInIR	0-1
			PortOfDestinationQuotedInIR	0-1

Table 5 Business rules for the queries identified by the "GetIRInformation" element

ID	Value of the "GetIRInformation " element	Information to be included in the RES message	Attributes to be set for accepting the REQ as valid (mandatory)	Optional attribute	Timeframe
1	AllIRsOfSelectedShip	Data related to all the IRs concerning a selected ship (on the basis of the "ShipIdentificationCriteria" element). The query will provide the full details. Results are limited to the latest 10 IR unless “StartDateTime" and "EndDateTime" are quoted.	"IMONumber" or "MMSINumber" or "IRNumber_FishingVessel"	"CallSign", "ShipName", "StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt")	Results are limited to 5 years before SentAt
2	SpecificTypesIRsOfSelectedShip	Data related to the IRs of a specific type(s) concerning a selected ship (on the basis of the "ShipIdentificationCriteria" element). The query will provide the full details. Results are limited to the last 10 IR received by SSN unless “StartDateTime" and "EndDateTime" are quoted	"IMONumber" or "MMSINumber" or "IRNumber_FishingVessel" + "Type" ("IncidentSelectionCriteria" element)	"CallSign", "ShipName", "StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt")	Results are limited to 5 years before SentAt
3	IRsForSpecificPort	Data related to all the IRs concerning ships bounding/leaving a specific port (on the basis of the "GeographicCriteria"). The query will provide the full details. Unless “StartDateTime" and "EndDateTime" are quoted, results are limited to the last 15 days (e.g. "EndDateTime"=SentA	"PortOfDepartureQuotedInIR" or "PortOfArrivalQuotedInIR" (both are referred to the "IRVoyageInformation" in the "MS2SSN_IncidentDetailNotification")	"StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt")	Results are limited to 1 year before SentAt

ID	Value of the "GetIRInformation " element	Information to be included in the RES message	Attributes to be set for accepting the REQ as valid (mandatory)	Optional attribute	Timeframe
		t, "StartDateTime"=Sent At-15 days)			
4	GetSpecificIR	Data related to the specific IR as identified by "IncidenID". The query provides full details	"IncidentID"	none	Results are limited to 5 years before SentAt

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<urn:MS2SSN_IncidentReport_Req xmlns:urn="urn:eu.emsa.ssn">
    <urn:Header From="thanosId" MSRefId="IR_REQ_20180202_1"
        SentAt="2018-01-08T10:00:00" TimeoutValue="60" To="SafeSeaNet"
        Version="4.0" />
    <urn:Body>
        <urn:IRQueryCriteria>
            <urn:TypeOfQuery GetIRInformation="AllIRsOfSelectedShip" />
            <urn:IncidentSelectionCriteria
                IncidentID="GRlnAmOB1u6l8Hpb9">
                <urn:IncidentSelectionType Type="POLREP" />
            </urn:IncidentSelectionCriteria>
            <urn:ShipIdentificationCriteria
                IMONumber="8022913" />
        </urn:IRQueryCriteria>
    </urn:Body>
</urn:MS2SSN_IncidentReport_Req>
```

SSN2MS_IncidentReport_Res.xml message

Introduction

The **SSN2MS_IncidentReport_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the Incident Reports in accordance with the search criteria provided by the user in the request message.

Please note that such kind of XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the default browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		***1***
IRQueryCriteria		***1***
TypeOfQuery		***1***
	GetIRInformation	1
IncidentSelectionCriteria		***0-1***
	IncidentID	0-1
IncidentSelectionType		0-N
	Type	1
ShipIdentificationCriteria		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
TimePeriodCriteria		***0-1***
	StartDateTime	1
	EndDateTime	1

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
GeographicCriteria		***0-1***
	PortOfDepartureQuotedInIR	0-1
	PortOfDestinationQuotedInIR	0-1
ProvidedIncidentdetails		***0-1***
Incidents		***1-99***
IncidentIdentification		***1***
	Type	1
	IncidentID	1
	ReportSequence	0-1
AssociatedIncidentReport		0-99
	AssociatedIncidentID	1
IRDistributionDetails		***0-1***
	IRDistributionToFlagState	0-1
IRRecipient		0-99
	RecipientCountry	1
	ActionRequestedDetail	0-1
IRVesselIdentificationList		***0-1***
IRVesselIdentification		***1-99***
IRVessel_IdentityVerified		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
IRVessel_IdentityNotFullyVerified		***0-1***
	DescribeVessel	1
IRVoyageInformation		***0-1***
	PortofDeparture	0-1
	PortOfDestination	0-1
	TotalPersonsOnBoard	0-1
CargoManifest		***0-1***
UrlDetails		***0-1***
	Url	1
	DocType	1
ContactDetails		***0-1***
	LastName	0-1
	FirstName	0-1
	LoCode	1
	Phone	1
	Fax	1

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
	EMail	0-1
ShipPositionAtTimeOfIncident		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
ShipPositionAtTimeOfReporting		***0-1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
AuthorityReportingIncident		***0-1***
SSNUserIdentifier		0-1
	SSNUserId	1
IdentificationOfAuthority		0-1
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1
	EMail	0-1
IncidentDetailsDocument		***0-1***
Base64Details		***1***
	DocType	1
	Base64Content	1
IncidentDetails		***0-1***
WasteIncidentInformation		***0-1***
NonComplianceInformation		***1***
	WasteDeliveryDuePort	1
	ETD	1
	InspectionReason	1
InspectionInformation		***0-1***

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
	Deficiencies	1
	ActionTaken	1
InspectionAuthority		***1***
	Name	1
	Coordinates	0-1
	Phone	0-1
	Fax	0-1
	EMail	0-1
SITREPIncidentInformation		***0-1***
SITREPInformation		***1***
C_Situation		***1***
	MessageType	1
	NotifiedAt	1
	Nature	1
D_NumberOfPersonsAtRisk		0-1
E_AssistanceRequired		0-1
F_CoordinatingAuthority		0-1
G_CasualtyDescription		0-1
H_WeatherOnScene		0-1
J_InitialActionTaken		1
K_SearchArea		0-1
L_CoordinatingInstructions		0-1
M_FuturePlans		0-1
N_AdditionalInformation		0-1
POLREPIncidentInformation		***0-1***
POLREPInformation		***1***
POLWARN		***0-1***
	P1_DateTime	1
	P3_Incident	0-1
	P4_Outflow	0-1
	P5_Acknowledge	0-1
P2_Position		***1***
GeoCoordinates		0-1
	Longitude	1
	Latitude	1
Area		0-1
	GeographicalArea	1
BearingDistance		0-1
	Bearing	1
	Distance	1

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
	Mark	1
POLINF		***0-1***
	P40_DateTime	0-1
	P41_PollutionPosition	0-1
	P42_PollutionChars	0-1
	P43_PollutionSource	0-1
P44_Wind		***0-1***
	Speed	1
	Direction	1
P45_Tide		***0-1***
	Speed	1
	Direction	1
P46_SeaState		***0-1***
	WaveHeight	1
	Visibility	0-1
P47_PollutionDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
P48_PollutionEffectForecast		0-1
P49_ObserverIdentity		***0-99***
	Name	1
	HomePort	0-1
	Flag	0-1
	CallSign	0-1
P50_ActionTaken		1
P51_Photographs		0-1
P52_InformedStateOrg		***0-99***
	Name	1
P53_OtherInformation		0-1
P60_Acknowledge		0-1
POLFAC		***0-1***
	P80_DateTime	0-1
	P81_RequestForAssistance	0-1
Assistance		***0-1***
	P82_Cost	1
	P83_PreArrangements	1
	P84_Delivery	1
P85_InformedStateOrg		***0-99***
	Name	1
P86_ChangeOfCommand		0-1

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
P87_ExchangeOfInformation		0-1
P88_OtherInformation		0-1
P99_Acknowledge		0-1
LostFoundObjectIncidentInformation		***0-1***
LostFoundObjectInformation		***1***
	DateTimeReportLostFound	1
	P1_ReportType	1
P2_ShipOrObserverIdentification		***0-1***
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
	IRNumber_FishingVessel	0-1
	Other	0-1
ObjectInformation		***1***
P3_ObjectPosition		***1***
GeoCoordinates		***0-1***
	Longitude	1
	Latitude	1
Area		***0-1***
	GeographicalArea	1
BearingDistance		***0-1***
	Bearing	1
	Distance	1
	Mark	1
ObjectDetails		**0-1**
	P4_NumberOfObjects	0-1
	P5_TypeOfGoods	0-1
Object		***0*-99**
	Description	1
	CargoLeaking	0-1
Wind		***0-1***
	Speed	1
	Direction	1
Tide		***0-1***
	Speed	1
	Direction	1
SeaState		***0-1***
	WaveHeight	1

SSN2MS_IncidentReport_Res - Elements	Attributes	Occ
	Visibility	0-1
ObjectDrift		***0-1***
	DriftCourse	1
	DriftSpeed	1
FailedNotificationIncidentInformation		***0-1***
Description		***1***
<TBD>		
VTSRulesInfringementIncidentInformation		***0-1***
Description		***1***
<TBD>		
BannedShipIncidentInformation		***0-1***
Description		***1***
<TBD>		
InsuranceFailureIncidentInformation		***0-1***
Description		***1***
<TBD>		
PilotOrPortReportIncidentInformation		***0-1***
Description		***1***
<TBD>		
OtherIncidentInformation		***0-1***
Description		***1***
<TBD>		
<TBD>		**-**
FeedbackList		**0-1**
FeedbackInformation		***1-99***
FeedbackIdentification		***1***
	FeedbackID	1
	IncidentID	1
FeedbackDistribution		***0-1***
	FeedbackDistributionToFlagState	0-1
FeedbackRecipient		0-99
	RecipientCountry	1
AuthorityReportingAction		***1***
SSNUserIdentifier		***0-1***
	SSNUserID	1
IdentificationOfAuthority		***0-1***
	AuthorityName	1
	LoCode	1
	Phone	1
	Fax	1

SSN2MS_IncidentReport_Res - Elements							Attributes	Occ
							EMail	0-1
					ReportActionDetails			***0-1***
							DateTimeReportAction	1
							Details	1
					ReportActionDocument			***0-1***
						Base64Details		***1***
							DocType	1
							Base64Content	1
					<TBD>			-

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_IncidentReport_Res - Item	Occ	Description
Header	***1***	**Header Node**
Version	1	none
TestId	0-1	none
MSRefId	1	The MSRefId must be unique
SSNRefId	1	The SSNRefId is unique
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	none
To	1	none
StatusCode	1	none
StatusMessage	0-1	none
Body	***1***	**Body Element Node**
IRQueryCriteria	***1***	**IRQueryCriteria element node**
TypeOfQuery	***1***	**TypeOfQuery element node**
GetIRInformation	1	From original MS2SSN_IncidentReport_Req request
IncidentSelectionCriteria	***0-1***	**IncidentSelectionCriteria element node**
IncidentID	0-1	From original MS2SSN_IncidentReport_Req request
IncidentSelectionType	0-N	
Type	1	
ShipIdentificationCriteria	***0-1***	
IMONumber	0-1	From original MS2SSN_IncidentReport_Req request
MMSINumber	0-1	From original MS2SSN_IncidentReport_Req

SSN2MS_IncidentReport_Res - Item	Occ	Description
		request
CallSign	0-1	From original MS2SSN_IncidentReport_Req request
ShipName	0-1	From original MS2SSN_IncidentReport_Req request
Flag	0-1	From original MS2SSN_IncidentReport_Req request
IRNumber_FishingVessel	0-1	From original MS2SSN_IncidentReport_Req request
TimePeriodCriteria	***0-1***	**Time Period Criteria Node**
StartDateTime	1	From original MS2SSN_IncidentReport_Req request
EndDateTime	1	From original MS2SSN_IncidentReport_Req request
GeographicCriteria	***0-1***	**Geographic Criteria Node**
PortOfDepartureQuotedInIR	0-1	From original MS2SSN_IncidentReport_Req request
PortOfDestinationQuotedInIR	0-1	From original MS2SSN_IncidentReport_Req request
ProvidedIncidentdetails	***0-1***	ProvidedIncidentdetails Node. Not allowed if StatusCode <> OK
Incidents	***1***-99	Incidents Node
IncidentIdentification	***1***	IncidentIdentification Node
Type	1	none
IncidentID	1	The IncidentId must be unique per national SSN system per type of incident (e.g. after an event such as a collision a SITREP and a POLREP are issued by a MS. *Proposed structure: 2 letter country code + operational number at national level.* The IncidentID replaces also the old attribute "SitrepID"
ReportSequence	0-1	none
AssociatedIncidentReport	0-99	**AssociatedIncidentReport Node**
AssociatedIncidentID	1	none
IRDistributionDetails	***0-1***	***IRDistributionDetails element* node. Mandatory for distributed Incident reports.**
IRDistributionToFlagState	0-1	Mandatory in case IRRecipientList not provided Only possible for Incident about SSN participants flag ships. If quoted, an automatic function will pick up the recipients from the vessel identification details
IRRecipient	0-99	**List of recipients Element Node**
RecipientCountry	1	Mandatory in case IRDistributionToFlagState not provided
ActionRequestedDetail	0-1	

SSN2MS_IncidentReport_Res - Item	Occ	Description
IRVesselIdentificationList	***0-1***	**IRVesselIdentificationList element node. Mandatory if vessel(s) identified. Possibility to identify more than one ship involved in the same incident. Element to be repeated if several ships are involved in the same incident. Mandatory if Incident type is:** **- WasteIncident** **- FailedNotification** **- VTSRulesInfringement** **- BannedShip** **- InsuranceFailure** **- PilotOrPortReport**
IRVesselIdentification	***1-99***	
IRVessel_IdentityVerified	***0-1***	
IMONumber	0-1	Mandatory if MMSINumber or IRNumber_FishingVessel not given.
MMSINumber	0-1	Mandatory if IMONumber or IRNumber_FishingVessel not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
IRNumber_FishingVessel	0-1	Mandatory if IMONumber or MMSINumber not given.
IRVessel_IdentityNotFullyVerified	***0-1***	IR**Vessel_IdentityNotFullyVerified element node.** Mandatory if IRVessel_IdentityVerified not provided. Not accepted if IRVessel_IdentityVerified provided. If only one ship is identified in the Incident Report and if IRVessel_IdentityNotFullyVerified, the Incident Report will be recorded in SSN as Incident Report with non identified vessel.
DescribeVessel	1	none
IRVoyageInformation	***0-1***	**VoyageInformation element node.**
PortofDeparture	0-1	none
PortOfDestination	0-1	none
TotalPersonsOnBoard	0-1	none
CargoManifest	***0-1***	**CargoManifest element node**
UrlDetails	***0-1***	**UrlDetails element node. Mandatory if ContactDetails not provided**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	***0-1***	**ContactDetails element node. Mandatory if UrlDetails not provided.**
LastName	0-1	none
FirstName	0-1	none
LoCode	1	Location code of the Maritime Authority. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA

SSN2MS_IncidentReport_Res - Item	Occ	Description
Phone	1	Only numbers and the symbol "+" are allowed. No spaces allowed.
Fax	1	Only numbers and the symbol "+" are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
ShipPositionAtTimeOfIncident	***0-1***	**ShipPositionAtTimeOfIncident element node. Mandatory for Incident type SITREP with vessel identified**
GeoCoordinates	***0-1***	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	***0-1***	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	***0-1***	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
ShipPositionAtTimeOfReporting	***0-1***	**ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTimeOfIncident**
GeoCoordinates	***0-1***	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	***0-1***	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	***0-1***	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
AuthorityReportingIncident	***0-1***	**Authority reporting incident element. Not allowed if StatusCode <> OK. Either SSNUserId or the AuthorityName and contact details are defined.**
SSNUserIdentifier	0-1	none
SSNUserID	1	none

SSN2MS_IncidentReport_Res - Item	Occ	Description
IdentificationOfAuthority	0-1	
AuthorityName	1	none
LoCode	1	Location code of the contact person. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	1	Only numbers and the symbol "+" are allowed. No spaces allowed.
Fax	1	Only numbers and the symbol "+" are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
IncidentDetailsDocument	***0-1***	**IncidentDetailsDocument element node.**
Base64Details	***1***	***Base64Details* element. Mandatory when the *data provider* can only provide incident details as downloadable files**
DocType	1	Extensions are case insensitive
Base64Content	1	Base64-encoded characters of the notification details downloaded by SafeSeaNet.
IncidentDetails	***0-1***	**IncidentDetails element node. Not allowed if StatusCode <> OK**
WasteIncidentInformation	***0-1***	WasteAlertInformation element node (if incident type = Waste). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
SITREPIncidentInformation	***0-1***	SITREPAlertInformation element node (if incident type = SITREP). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
POLREPIncidentInformation	***0-1***	POLREPAlertInformation element node (if incident type = POLREP). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
LostFoundObjectIncidentInformation	***0-1***	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not or (if any)
FailedNotificationIncidentInformation	***0-1***	FailedNotificationIncidentInformation element node (if incident type = FailedNotificationIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-		From incoming MS2SSN_IncidentDetail_Not (if any)
VTSRulesInfringementIncidentInformatio	***0-1***	VTSRulesInfringementIncidentInformation element node (if incident type = VTSRulesInfringementIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)

SSN2MS_IncidentReport_Res - Item	Occ	Description
-		From incoming MS2SSN_IncidentDetail_Not (if any)
BannedShipIncidentInformation	***0-1***	BannedShipIncidentInformation element node (if incident type = BannedShipIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-		From incoming MS2SSN_IncidentDetail_Not (if any)
InsuranceFailureIncidentInformation	***0-1***	InsuranceFailureIncidentInformation element node (if incident type = InsuranceFailureIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
PilotOrPortReportIncidentInformation	***0-1***	PilotOrPortReportIncidentInformation element node (if incident type = PilotOrPortReportIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
OtherIncidentInformation	***0-1***	OtherIncidentInformation element node (if incident type =OtherIncidentInformation or Others). From incoming MS2SSN_IncidentDetail_Not (if any)
…		From incoming MS2SSN_IncidentDetail_Not (if any)
FeedbackList	***0-1***	**FeedbackList element node.**
FeedbackInformation	***1-99***	**FeedbackInformation element node.**
FeedbackIdentification	***1***	**FeedbackIdentification element node.**
FeedbackID	1	Unique identifier of feedback
IncidentID	1	Unique identifier of Incident Report
FeedbackDistribution	***0-1***	**FeedbackDistribution element node.**
FeedbackDistributionToFlagState	0-1	From original MS2SSNIncidentDetail_Not.
FeedbackRecipient	***0-99***	**FeedbackRecipient element node.**
RecipientCountry	1	From original MS2SSNIncidentDetail_Not.
AuthorityReportingAction	***1***	**AuthorityReportingAction element node.**
SSNUserIdentifier	***0-1***	**SSN user identification. If provided, IdentificationOfAuthority will not be provided.**
SSNUserID	1	From original MS2SSNIncidentDetail_Not
IdentificationOfAuthority	***0-1***	**Identification of authority. If provided, SSNUserIdentifier will not be provided.**
AuthorityName	1	From original MS2SSNIncidentDetail_Not
LoCode	1	
Phone	1	
Fax	1	
EMail	0-1	
ReportActionDetails	***0-1***	**ReportActionDetails element node**
DateTimeReportAction	1	From original MS2SSNIncidentDetail_Not
Details	1	From original MS2SSNIncidentDetail_Not
ReportActionDocument	***0-1***	**ReportActionDocument element node**
Base64Details	***1***	**Base64Details element node**.
DocType	1	From original MS2SSNIncidentDetail_Not
Base64Content	1	
<TBD>	**-**	

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" SentAt="2018-02-02T11:13:26Z" From="SafeSeaNet"
        To="thanosId" MSRefId="IR_REQ_20180202_6" SSNRefId="IR_REQ_20180202_6"
        StatusCode="OK" />
    <Body>
        <IRQueryCriteria>
            <TypeOfQuery GetIRInformation="SpecificTypesIRsOfSelectedShip" />
            <IncidentSelectionCriteria>
                <IncidentSelectionType Type="POLREP" />
            </IncidentSelectionCriteria>
            <ShipIdentificationCriteria IMONumber="8022913" />
        </IRQueryCriteria>
        <ProvidedIncidentdetails>
            <Incidents><IncidentIdentification Type="POLREP"
                    IncidentID="GRlnAmOB1u6l8Hpb9" />
                <IRDistributionDetails
                    IRDistributionToFlagState="Y">
                    <IRRecipient RecipientCountry="EU" />
                    <IRRecipient RecipientCountry="DE" />
                </IRDistributionDetails>
                <IRVesselIdentificationList>
                    <IRVesselIdentification>
                        <IRVessel_IdentityVerified IMONumber="8022913"
                            MMSINumber="258319000" CallSign="LMTR" ShipName="GAYSER SENIOR" />
                        <ShipPositionAtTimeOfIncident>
                            <GeoCoordinates Longitude="12" Latitude="12" />
                        </ShipPositionAtTimeOfIncident>
                    </IRVesselIdentification>
                </IRVesselIdentificationList>
                <AuthorityReportingIncident>
                    <SSNUserIdentifier SSNUserID="thanosId" />
                </AuthorityReportingIncident>
                <IncidentDetails>
        <POLREPIncidentInformation>
        <POLREPInformation>
        <POLINF P50_ActionTaken="taken">
        <P49_ObserverIdentity Name="name1" HomePort="port1" Flag="GR" CallSign="csign1" />
        <P49_ObserverIdentity Name="name3" HomePort="port3" />
        <P52_InformedStateOrg Name="1" />
        </POLINF></POLREPInformation>
        </POLREPIncidentInformation>
                </IncidentDetails></Incidents></ProvidedIncidentdetails>
    </Body>
</SSN2MS_IncidentReport_Res>
```

Section 3.9 - Get ExemptionNotification Details

Overview

Introduction

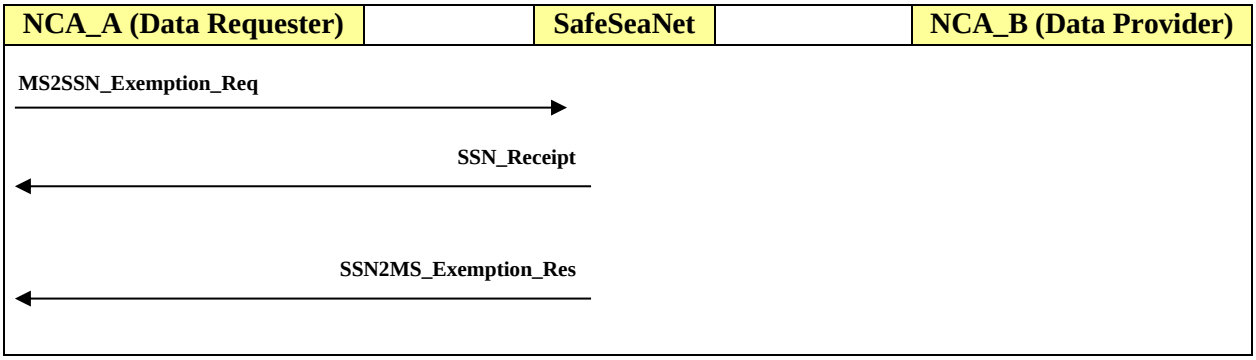
A Member State may ask SafeSeaNet to get the details relative to Exemption notification(s) sent by a data provider. Such service is implemented by exchanging different XML messages between the *data requester* and the SafeSeaNet system.

The messages are used by the "Information Requests" process (see page 35)

This section describes the different XML messages provided for this transaction.

General flow of the XML messages

The following figure outlines the expected **asynchronous** flow (except SSN_Receipts which are **synchronous** messages) of XML messages related to this SafeSeaNet XML transaction. You may notice that, as SafeSeaNet has all the Exemption notification details in its database (stored when receiving the *MS2SSN_Exemption_Not.xml* notification message from the *data provider*), there is no need to ask the *data provider* for the details.



MS2SSN_Exemption_Req.xml message

Introduction

The **MS2SSN_Exemption_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the active exemption notification details.

The request message allows requesting exemptions with the following criteria:

- for a given ship,
- issued by a country,
- applied in a port,
- of a specific type.

The system will also allow requesting all exmptions recorded.

Please note that such kind of XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) and its corresponding XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

MS2SSN_Exemption_Req - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		***1***
RequiredResponseCriteria		***1***
	ExemptionType	0-1
	ShipIdentificationCriteria	0-1
	IMONumber	0-1
	MMSINumber	0-1
	ExemptedPortCriteria	0-1
	Port	1
	AuthorityCriteria	0-1
	Country	1

Business Rules The following rules apply to the MS2SSN_Exemption_Reqmessage:

No.	General Rule applicable to the MS2SSN_Exemption_Reqmessage
1	This query can be used only for retrieving active exemptions.
2	An active exemption is an exemption which "DateFrom" is past or equal to the date of the request and which "DateTo" is posterior or equal to the date of request.
3	The **MS2SSN_Exemption_Req** may include a combination of the multiple criteria in the ***RequiredResponseCriteria***. If more than one criterionis specified the system will retrieve active exemptions matching the combination of all specified criteria.
4	If no criterion is provided, the reponse will include a list of all active exemptions at the current date.

Business Rules The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

MS2SSN_Exemption_Req - Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	The MSRefId must be unique.
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
TimeoutValue	1	
From	1	
To	1	
Body	**1**	
RequiredResponseCriteria	**1**	
ExemptionType	0-1	
ShipIdentificationCriteria	0-1	
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
ExemptedPortCriteria	0-1	
Port	1	This criterion applies to the port declared as exempted (attribute "Port" of element "*ExemptionAppliesTo*"in MS2SSN_Exemption_Not)
AuthorityCriteria	0-1	
Country	1	This criterion applies to the country of the authority which issued the exemption (attribute "Country" of element "Authority" in MS2SSN_Exemption_Not)

Example

```
<ssn:MS2SSN_Exemption_Req xmlns:ssn="urn:eu.emsa.ssn">
    <ssn:Header Version="4.0" TestId="GRPIR01" SentAt="2018-01-29T15:05:00Z"
        From="GRPIR01" To="SafeSeaNet" MSRefId="MS2SSN_Exemption_Req_1903-06-13"
        TimeoutValue="30" />
    <ssn:Body>
        <ssn:RequiredResponseCriteria
            ExemptionType="Hazmat">
            <ssn:ShipIdentificationCriteria
                IMONumber="2559768" />
        </ssn:RequiredResponseCriteria>
    </ssn:Body>
</ssn:MS2SSN_Exemption_Req>
```

SSN2MS_Exemption_Res.xml message

Introduction

The **SSN2MS_Exemption_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the Exemption information in accordance with the search criteria provided by the user in the request message.

Please note that such kind of XML response (*SSN2MS_<SSN_Tx_Type>_Res.xml*) and its corresponding XML request (*MS2SSN_<SSN_Tx_Type>_Req.xml*) should only be implemented by a Member State if it wants to develop its own *data requester* interface instead of using the default browser-based web interface supplied by SSN.

Message description

The following table describes the XML message used for the transaction.

SSN2MS_Exemption_Res - Elements	Attributes	Occ
Header		***1***
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefld	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		***0-1***
ProvidedResponseCriteria		***1***
	ExemptionType	0-1
ShipIdentificationCriteria		0-1
	IMONumber	0-1
	MMSINumber	0-1
ExemptedPortCriteria		0-1
	Port	1
AuthorityCriteria		0-1
	Country	1
QueryResults		0-∞
	ExemptionID	1
VesselIdentification		1
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1
ExemptionDetails		1
	ExemptionType	1
	CompanyName	1
	DateFrom	1
	DateTo	1
Route		1-∞
	Port	1

SSN2MS_Exemption_Res - Elements					Attributes	Occ
			ExemptedWasteTypes			0-∞
					WasteCode	1
					WasteDescription	0-1
			ExemptionAppliesTo			0-∞
					Port	1
				ExemptedPortFacilities		0-∞
					PortFacilityLocode	1
					PortFacility	1
			Authority			1
					Country	1
					AuthorityType	1
					AuthorityName	1
			Contact24/7			1
					FirstName	0-1
					LastName	0-1
					LoCode	0-1
					Phone	0-1
					Fax	0-1
					EMail	0-1

Business Rules

The following table describes the XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

SSN2MS_Exemption_Res- Item	Occ	Description
Header	**1**	
Version	1	
TestId	0-1	
MSRefId	1	This is the MSRefId as in the MS2SSN_Exemption_Req.xml message
SSNRefId	1	The SSNRefId is unique.
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	
To	1	
StatusCode	1	
StatusMessage	0-1	
Body	**0-1**	Mandatory unless StatusCode=”InvalidFormat”
ProvidedResponseCriteria	**1**	It defines the query as received by SSN. Content is as in the MS2SSN_Exemption_Req.xml message
ExemptionType	0-1	
DateOfRequest	0-1	
ShipIdentificationCriteria	0-1	
IMONumber	0-1	
MMSINumber	0-1	

SSN2MS_Exemption_Res- Item	Occ	Description
ExemptedPortCriteria	0-1	
Port	1	
AuthorityCriteria	0-1	
Country	1	
QueryResults	0-1	- It includes the results of the query as defined in the MS2SSN_Exemption_Req.xml message. - Not provided if the query has no result.
ExemptionList	0-∞	- These are the matching exemptions Ids. Depending on the query, this may be anexemption or several. - Each record provides the latest Exemption notification stored in central SSN system corresponding to the ExemptionId.
ExemptionID	1	
Source	1	
ProviderOfLastUpdate	0-1	As indicated in the From attribute of the latest Exemption notification
LastUpdateReceivedAt	0-1	Date and time of receipt of the latest Exemption notification
VesselIdentification	1	
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
ExemptionDetails	1	
ExemptionType	1	
CompanyName	1	
DateFrom	1	
DateTo	1	
Route	1-∞	
Port	1	
ExemptedWasteTypes	0-∞	
WasteCode	1	
WasteDescription	0-1	
ExemptionAppliesTo	0-∞	Following V3-V4 transition period, at least one port should be identified,
Port	1	
ExemptedPortFacilities	0-∞	
PortFacilityLocode	1	
PortFacility	1	
Authority	1	
Country	1	
AuthorityType	1	
AuthorityName	1	
Contact24/7	1	

SSN2MS_Exemption_Res- Item	Occ	Description
FirstName	0-1	
LastName	0-1	
LoCode	0-1	
Phone	0-1	
Fax	0-1	
EMail	0-1	

Example

```
<?xml version="1.0" encoding="UTF-8"?>
<SSN2MS_Exemption_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="4.0" TestId="test" SentAt="2018-01-30T14:32:22Z"
        From="SafeSeaNet" To="GRPIR01" MSRefId="MS2SSN_Exemption_Req_20171130_11"
        SSNRefId="MS2SSN_Exemption_Req_20171130_11" StatusCode="OK" />
    <Body>
        <ProvidedResponseCriteria />
        <QueryResults ExemptionID="EUhtUBIBj19200">
            <VesselIdentification IMONumber="7411650"
                MMSINumber="258428000" CallSign="JXWF" ShipName="BULK STAR" />
            <ExemptionDetails ExemptionType="Pre-Arrival"
                CompanyName="ii" DateFrom="2017-03-27Z" DateTo="2018-03-28Z">
                <Route Port="GRPIR" />
                <Route Port="GRAAA" />
                <Authority Country="EU" AuthorityType="NCA" AuthorityName="SafeSeaNet" />
                <Contact247 FirstName="John" LastName="Paul"
                    LoCode="EUCOM" Phone="+351211209415" Fax="+83748767645"
                    EMail="JohnPaul@test-intl.com" />
            </ExemptionDetails>
        </Body>
</SSN2MS_Exemption_Res>
```

Annex A- XML attributes definitions (type / length/ description)

Introduction

The tables used describe the attributes used within the XML messages and provide the following information:

- Type
- Length
- Description
- The XML message (s) where the specific attribute is included

This information is described in the next information blocks of this topic.

Attributes used in SSN messages

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
ActionTaken	Text	1-256	Free text entry. Description of the action(s) taken	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
ActionRequestedDetail	Text	1-256	Content of the action requested to the recipient MS	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Activity	ENUM		Description of ship-to-ship activity performed defined using the EDIFACT codes (8025)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
AdditionalInformation	Text	1-256	Any additional information regarding dangerous and polluting goods on board.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
AgentName	Text	1-50	Name of the organisation representing the ship in the context of the call in the port.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Anchorage	ENUM		Indicates whether the ship is at anchorage. Possible values (at "**sent-at**" time): **Y**: Ship at anchorage **N**: Ship to berth	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
AntennaLocation	Text	1-36	Free text entry. Location of position-fixing antenna	MS2SSN_Ship_Res
AnyDG	ENUM		Used to report any dangerous or polluting goods (DPG) on board. Possible values: **Y**: declares that DPG is on board **N**: declares that there is no DPG **X**: to be quoted in the SSN2MS_Ship_Res.xml in case the notification provided is compliant to SSN v2	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Ship_List_Res
AOI	Text	1-350	This is used to report the WETREP specific information (e.g. information on oil cargo types, quantity, grades and density under designator "P"). It can also be used to provide other	MS2SSN_Ship_Res SSN2MS_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			cargo-related data which is considered as essential by the data provider	
ApprovedSecurityPlan	ENUM		Indicates if the ship has an approved security plan on board. This is a yes (**Y**) /no (**N**) data element.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
AssociatedIncidentID	Text	1-20	IncidentID identification number of an Incident Report which is associated to the current Incident Report. The format is in accordance with the IncidentID.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
ATAPortOfCall	DT		Date and time in of the actual time of arrival at port of call.	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ATDPortOfCall	DT		Date and time of the actual time of departure from the port of call	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
AuthorityName	Text	1-100	Name of the reporting Authority or Authority granting the exemption	MS2SSN_Exemption_Not SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
AuthorityType	ENUM		Type of the Authority granting the exemption. Possible value: **NCA** – National Competent Authority **POR** – Port Authority **OTH** - Other	MS2SSN_Exemption_Not SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
Base64Content	base64		Base64-encoded characters of the notification details downloaded by SafeSeaNet.	SSN2MS_Ship_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Bearing	Text	1-20	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
BriefCargoDescription	Text	1-256	This is a short text giving an overview of what cargo the ship carries. This shall also contain brief details of any harmful substances and gases that could endanger persons or the environment.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
BunkerDescription	Text	1-25	Free text description of bunkersin case BunkersType=”Other”.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
BunkersReportedYorN	ENUM		Bunkers information reported Yes/ No status code. Possible values: **Y** – declares that Bunkers information has been reported **N** – declares that there is no Bunkers information reported	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
BunkerType	ENUM		Attribute contains the category of bunkers declared. Possible values: **MGO** - marine gas oil **MDO** - marine diesel oil **IFO** - intermediate fuel oil **MFO** - marine fuel oil **HFO** - heavy fuel oil **LPG** - liquefied petroleum gas **LNG** - liquefied natural gas **LO** - lubrication oil **Other** – any other type of bunkers	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
CallPurposeCode	ENUM		Primary purpose of the call defined using the EDIFACT codes (8025)	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
CallSign	Text	0-7	Call sign of the vessel	MS2SSN_Ship_Not MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
CargoLeaking	Text	1-20	Yes/No/Not visible Description of Pollution	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
CargoType	Text	0-255	Free text entry. Type of cargo.	MS2SSN_Ship_Res SSN2MS_Ship_Res
CargoVolumeNature	Text	0-256	Free text entry identifying the volume and nature of the cargo.	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
CertificateNumber	Text	1-35	Number of the certification of registry	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ConditionCargoBallastTanks	Text	0-256	Free text entry identifying the condition of the cargo and ballast tanks (e.g. full, empty, inerted etc.)	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
Chars	Text		Free text entry. Bunker characteristics	MS2SSN_Ship_Res SSN2MS_Ship_Res
COG	Int		Course over ground in 1/10° (0-3599; 3600 = not available = default; 3601-4095 = should not be used). Lower value: 0; Upper value: 3600.	MS2SSN_Ship_Res SSN2MS_Ship_Res
CompanyName	Text	1-70	Name of ship's operating company, as defined in the ISM code	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
Country	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_Exemption_Not SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_Exemption_Req SSN2MS_Exemption_Res
CSTIdentification	Text	1-30	CST responsible for receiving ship-to-shore MRS reports. It starts with Alpha-2 code (two-digits) in accordance with the standard ISO 3166-1. The full list of the relevant CSTs will be included in the "MRS Guidelines" and regularly updated when needed.	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Ship_List_Res
CurrentSecurityLevel	ENUM		Ship's current security level according to the ISPS code. Possible values: "**SL1**", "**SL2**" and "**SL3**"	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
D_NumberOfPersons	Int		Number of persons on board. 99999 if actually unknown. The value 0 (Zero) is allowed in situations where SITREP refers to a vessel that has been fully evacuated. Note that type "INT" prohibits the use of dots and commas" to bring it in line with other persons on board fields.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
D_NumberOfPersonsAtRisk	Int		Number of persons at risk. 99999 if actually unknown. The value 0 (Zero) is allowed in situations where SITREP refers to a vessel that has been fully evacuated. Note that type "INT" prohibits the use of dots and commas" to bring it in line with other persons on board fields.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DateFrom	Date		Indicates the date when an activity was initiated.	MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
DateOfArrival	Date		Actual date of arrival.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
DateOfDeparture	Date		Actual date of departure.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
DateTimeReportAction	DT		Date and time when the action report is provided. If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
DateTimeReportLostFoundObject	DT		Date and time when the observation about lost / found objects takes place. If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DateTo	Date		Indicates the date when an activity was concluded.	MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
Deficiencies	Text	1-256	Free text entry. Deficiencies found during inspection.	MS2SSN_IncidentDetail_NotSSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DeleteBunkersNotificationTowardsNextPort	ENUM		Used to delete a previously provided data group “BunkersNotificationTowardsNextPort”. Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not
DeleteBunkersNotificationTowardsPortOfCall	ENUM		Used to delete a previously provided data group “BunkersNotificationTowardsPortOfCall”. Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not
DeleteHazmatNotificationInfoEUDepartures	ENUM		Used to delete a previously provided data group “HazmatNotificationInfoEUDepartures”. Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not
DeleteHazmatNotificationInfoNonEUDepartures	ENUM		Used to delete a previously provided data group “HazmatNotificationInfoNonEUDeparture”. Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
DeleteSecurityNotification	ENUM		Used to delete a previously provided data group "SecurityNotification". Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not
DeleteWasteNotification	ENUM		Used to delete a previously provided data group "HazmatWasteNotification". Possible values: **Y** – Deletes the data group **N** – Does not delete the data group	MS2SSN_PortPlus_Not
DescribeVessel	Text	1-50	Free text entry. Possibility to provide information on vessels without IMO or MMSI (e.g. pleasure craft, fishing vessels…)	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Description	Text	1-512	Description of a container: dimension, color, marks, numbers, condition	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Details	Text	1-512	Free text entry. Description of the incident.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Direction	Text	1-20	Indicates wind direction in degrees.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Distance	Text	1-20	Indicates distancein nautical miles.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DistributionFeedback_yes_no	ENUM		Distribute feedback Yes/ No. Possible value: **Y** – yes, feedback received will be distributed **N** – no, feedback received will not be distributed	MS2SSN_IncidentDetail_No
DistributionIR_yes_no	ENUM		Distribute Incident Report Yes/ No. Possible value: **Y** – yes, incident report will be distributed	MS2SSN_IncidentDetail_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			N – no, incident report will not be distributed	
DGClassification	ENUM		Attribute contains the information in which IMO Code(s) DG must be declared Values: "**IMDG**", "**IGC**", "**IBC**", "**MARPOL_ANNEX1**", "**IMSBC**" "**X**": to be quoted in the SSN2MS_ShipCall_Res.xml in case the notification provided is compliant to SSN v2, without information	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
DocType	ENUM		Type of document format among the following possible values: DocType: **DOC** -> Extensions allowed: MS WORD 97 or subsequent versions (e.g. DOC, DOCX,DOT, RTF, etc) DocType: **HTML** -> Extensions allowed: HTM, HTML DocType: **PDF** -> Extensions allowed: PDF DocType: **TXT** -> Extensions allowed: TXT DocType: **XML** -> Extensions allowed: XML DocType: **XLS** -> Extensions allowed: MS EXCEL 97 or subsequent versions (e.g. XLS, , etc)	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DriftCourse	Text	1-20	Indicates the drift course of pollution in degrees	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DriftSpeed	Text	1-20	Indicates the drift speed of pollution in knots and tenths of knots. In cases of air pollution (gas cloud), drift speed should be indicated in m/sec	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
E_AssistanceRequired	Text	1-20	Free text entry. Type of assistance required	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
EMail	Text	0-50	Email address of the contact person	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
EmSNumber	Text	1-50	This refers to the relevant emergency schedules for fire and spillage in “The EmS Guide – Emergency Response Procedures for Ships Carrying Dangerous Goods”	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
EndDateTime	DT		Ending point of a time window declared to define a query	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
ETA	DT		Date and time of the estimated time of arrival at Next Port of Call	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res
ETAToNextPort	DT		Date and time of estimated time of arrival to the subsequent port of call.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
ETAToPortOfCall	DT		Date and time of the estimated time of arrival at port of call	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
ETD	DT		Date and time of the estimated time of departure from Next Port of Call	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
ETDFromLastPort	DT		Date and time of the estimated time of departure from the last port of Call	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ETDFromPortOfCall	DT		Date and time of the estimated time of departure from port of call	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ExpiryDate	Date		Date indicating when the certificate expires.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
ExemptionID	Text	1-36	This the identifier of an exemption granted by a Member State to a ship. The value of ExemptionID is defined by the NCA and the NCA guarantees that the value is unique within the MSand that it is preceded by the 2-letter country code.	MS2SSN_Exemption_Not SSN2MS_Exemption_Res
ExemptionType	ENUM		Indicates the type of Exemption granted to a scheduled service. Possible value: **Pre-Arrival**(Article 15 of Directive 2002/59/EC) **Hazmat** (Article 15 of Directive 2002/59/EC) **Security** (Article 7 of Regulation (EC) No 725/2004) **Waste** (Article 9 of Directive 2000/59/EC) [to be removed following the V3-V4 transition] **WasteNotification** (Article 9 of Directive 2000/59/EC) **WasteDelivery**(Article 9 of Directive 2000/59/EC) **WasteFees**(Article 9 of Directive 2000/59/EC)	MS2SSN_Exemption_Not MS2SSN_Exemption_Req SSN2MS_Exemption_Res
F_CoordinatingAuthority	Text	1-80	Name of coordinating Authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Fax	Text	1-20	Fax number (country code included) of the contact person.	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
FeedbackID	Text	1-20	Country code + 15 characters	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Country code: Alpha-2 (two-letters) in accordance with standard ISO 3166-1. Country code of the member state providing the Incident Report.	SSN2MS_IncidentReport_Res
FeedbackDistributionToFlagState	ENUM	1	Distribute Feedback to flag State(s) if participating to SSN. Possible values: **Y** – yes, feedback will be distributed to the flag State(s) **N** - no, feedback will not be distributed to the flag State(s)	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FirstName	Text	0-50	First name of the contact person	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
Flag	ENUM		The Alpha-2 code (two-digits flag code)in accordance with the standard ISO 3166-1.	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
FlashPoint	Decimal		The temperature in degrees Celsius at which a liquid will give off enough flammable vapour to be ignited. To be provided in degrees Celsius.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
From	Text	7-32	The UserID of the originator of the message (as defined in SafeSeaNet). Best practice for the field is to include the reference identification of the originator of the data included in the message.	ALL messages
G_CasualtyDescription	Text	1-256	Free text entry. Physical description, owner/character, cargo carried, passage from/to, life-saving equipment carried	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
GeographicalArea	Text	1-50	Geographical area name	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
GetBunkers	ENUM		Definition of the level of details for a Bunkers response. Possible value: **BunkersDetails** (Bunkers “full” version)	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
GetBunkersType	ENUM		Used to specify which Bunkers details SSN is asking for and that should be quoted in the response by the data provider. Possible values: -**BunkersTowardsPortOfCall** **-BunkersTowardsNextPort**	SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res
GetDetails	ENUM		Definition of the data query to be processed through a request message. The quotation of the value relates to a specific combination of search criteria that has to be defined for the query to be executed. Possible values are listed in Table 4	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
GetHazmat	ENUM		Definition of the level of details for a Hazmat response. Possible values: **HazmatSummary** (HAZMAT “lite” version) **HazmatDetails** (HAZMAT “full” version)	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Although the response message should include the hazmat information of the specific ShipCall listed by the query (depending on the value of the GetDetails attribute), however it is important to note that the Call for which data are requested might differ from the latest registered to the national SSN system based on the SentAt value in the notification	
GetHazmatType	ENUM		Used to specify which HAZMAT details SSN is asking for and that should be quoted in the response by the data provider. Possible values: **-HazmatTowardPortOfCall** **-HazmatTowardNextPort**	SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res
GetIRInformation	ENUM		Possible values: - AllIRsOfSelectedShip - SpecificTypesIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR	MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
GetWaste	ENUM		Definition of the level of details for a Waste response. Possible values: **WasteSummary** (Waste “lite” version) **WasteDetails** (Waste “full” version)	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
GetSecurity	ENUM		Definition of the level of details for a Security response. Possible values: **SecuritySummary** (Security “lite” version) **SecurityDetails** (Security “full” version)	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
GrossTonnage	Decimal	(3)	The measure of the overall size of a ship determined in accordance with the provisions of the International Convention on Tonnage Measurement of Ships, 1969	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
H_WeatherOnScene	Text	1-256	Weather on scene. Wind, sea/swell state, air/sea temperature, visibility, cloud cover/.ceiling, barometric pressure	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
HazardousCargoType	ENUM		Type of hazardous cargo (if any) among the following possible values: - DG - HS - MP	MS2SSN_Ship_Res SSN2MS_Ship_Res
HazmatOnBoardYorN	ENUM		A Hazmat-on-board Yes/ No status code. Possible value: **Y** – declares that Hazmat cargo is onboard **N** – declares that there is no Hazmat cargo onboard	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Heading	Int		Degrees from 0 to 359; 511 means not available	MS2SSN_Ship_Res SSN2MS_Ship_Res
HomePort	Text	1-20	Location code.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
IMOClass	Text	1-7	The value is as specified in the ShipCall messages for "IMOHazardClass" attribute	MS2SSN_Ship_Res SSN2MS_Ship_Res
IMOCompanyNr	Text	7	Identification number of an organization according to a database of IMO Registered Owner or Company (DOC) number	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IMOHazardClass	Text	1-7	IMO Hazard class (IMDG-IBC-IMSBC codes) of DPG	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IMONumber	Text	7	IMO number – IMO Res. A.600 (15)	ALL messages except from SSN_Receipt and SSN2MS_IncidentDetail_Tx_Ack

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
INFShipClass	ENUM		Code for the license of the vessel according to the INF Code (Code for the Safe Carriage of Irradiated Nuclear Fuel, Plutonium and High-level Radioactive Wastes in Flasks on board Ships). Possible values are: ▪ **INF1 (Class INF 1)** ▪ **INF2 (Class INF 2)** ▪ **INF3 (Class INF3)**	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IncidentID	Text	1-20	Country code +15 characters Country code: Alpha-2 (two-letters) in accordance with standard ISO 3166-1. Country code of the member state providing the Incident Report.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx_Ack
Inmarsat	Text	1-50	Number indicating the location of the ship by satellite services of Inmarsat Note: the following characters are not accepted: ',' '&' '_'	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
InspectionReason	Text	1-256	Reasons why the ship should be inspected in next port and any other relevant information.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
IRDistributionToFlagState	ENUM	1	Distribute Incident Report to flag state(s) if participating to SSN. Possible value: **Y** – yes, incident report will be distributed to flag State(s) **N** – no, incident report will not be distributed to flag State(s)	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
IRNumber_FishingVessel	Text	12	EU fishing vessel Registration number (CFR field)	MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
ISSCType	ENUM		To indicate if the ship is provided with an International Ship Security Certificate or an Interim International Ship Security Certificate. Possible values: "**Full**", "**Interim**"	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IssueDate	Date		Date indicating when the certificatewas issued.	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
Issuer	Text	1-256	Name of the issuing body.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IssuerType	ENUM		To indicate the type of ISSC issuing authority. Possible values: "**GVT**" (Contracting Government), "**RSO**" (Recognized Security Organization)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
J_InitialActionsTaken	Text	1-256	Initial actions taken by casualty and RCC	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
K_SearchArea	Text	1-80	Search area as planned by RCC	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
L_CoordinatingInstructions	Text	1-256	OSC designated, units participating, communications	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
LastName	Text	0-50	Last name of the contact person	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
LastPort	Text	5	This attribute indicates the last port of Call of the vessel (the port of departure for the voyage towards the Port of Call). The port is identified by its 5-digit LOCODE	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
LastPortDelivered	Text	5	Last port where ship-generated waste was delivered The port is identified by its 5-digit LOCODE	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
LastPortDeliveredDate	Date		Last date when ship-generated waste was delivered	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
LastUpdateReceivedAt	DT		Identifies the date/time when the information was last updated to the data requestor. If local time is used MS application has to adjust the time to UTC.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Latitude	Int		Latitude in 1/10000 min. (+/- 90 degrees; North = positive; South = negative; 91 = not available) 91° (north) -> 54600000 -90° (south) -> -54000000 0°0’1” (north) -> 167 50°50’ (north) -> 30500000	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
LengthAndBeam	Text	1-36	Length and beam	MS2SSN_Ship_Res SSN2MS_Ship_Res
LocationName	Text	0-256	The port or location is identified by its name in free text	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
LocationOnBoard	Text	1-25	▪ For guidance refer to SSN Guidelines on Reporting HAZMAT.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
LoCode	Text	5	Location code of the contact person or company. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA	SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
Longitude	Int		Longitude in 1/10000 min. (+/- 180 degrees; East = positive; West = negative; 181 = not available). Examples: 181° (east) -> 108600000 -180° (west) -> -108000000 0°0’1” (east) -> 167 4°20’ (east) -> 2600000	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
M_FuturePlans	Text	1-256	Free text entry.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Mark	Text	1-256	Free text entry. Reference point to which the bearing and distance is applied (e.g. Buoy n.3 entrance to the port of Lisbon)	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
MarpolCode	ENUM		As defined in MARPOL Annex II, IBC code, Marpol Annex III and IMDG codePossible values: "**X**", "**Y**", "**Z**", "**OS**", “**P**” and "**UNKNOWN**". [value "**UNKNOWN** to be removed following the V3-V4 transition]	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
MessageType	ENUM		SITREP Alert Information Situation message type. Supported message type. Possible values are: - Distress - Urgency	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
MMSINumber	Text	9	MMSI number of the vessel. MID according to the ITU regulation. Length of the MMSI number should always be 9	ALL messages except SSN_Receipt and SSN2MS_IncidentDetail_Tx_Ack
MRSIdentification	Text	1-15	MRS as defined by IMO requirements which the notification is referred to. The list covers the existing MRS established along EU waters and for the time being is the following: • ADRIREP • BELTREP • BONIFREP • CALDOVREP • CANREP • COPREP • FINREP • GDANREP • GIBREP • GOFREP • GREENPOS • MANCHREP • OUESSREP • SOUNDREP • TRANSREP • WETREP • BAREP The full list will be included in the “MRS Guidelines” and regularly updated when needed. In the SSN2MS_Ship_Res.xml this attribute will report “**undefined**” in case the notification provided is compliant to SSN v2	MS2SSN_Ship_Not MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Ship_List_Req SSN2MS_Ship_List_Res
MSRefId	Text	1-36	Reference identifier specified by the original caller. It will be inserted by SafeSeaNet in the MSRefId attribute of the SSN_Receipt.xml response.	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Req MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_Ship_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res MS2SSN_Exemption_Req SSN2MS_Exemption_Res
MsRefIDofIRupdate	Text	1-36	Reference identifier MsRefIDspecified by the original callerdata provider of the MS2SSNIncidentDetail_Not.	SSN2MS_IncidentDetail_Tx_Ack
N_AdditionalInformation	Text	1-256	Include time SAR operation terminated	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Name	Text	1-80	Name of the inspection authority or name of other states and organisations informed in case of an incident.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Nature	ENUM		Nature of distress/urgency. Possible values are: - Fire - Collision - Medico* - Grounding - Flooding - List - Capsizing - EngineFailure - StructuralFailure - SteeringGearFailure	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			- ElectricalGeneratingSystemFailure - NavigationEquipmentFailure - CommunicationEquipmentFailure - AbandonShip - ShiftingOfCargo - Sinking - Other The data provider will need to determine which value best describes a particular incident with respect of Directive 2002/59 requirement to report incidents or accidents that affect the safety of the ship or of shipping. *It should be noted that Medical Evacuation is not found within the examples in Article 17 and a SITREP with Nature "Medico" would not be used to report a Medical Evacuation from a vessel unless the evacuation had a direct effect on the safety of the ship or shipping (for example if the individual evacuated was key member of crew and their absence from the vessel compromised it safe manning)	
NavigationalStatus	ENUM		One of the following possible values: - 0 (under way using engine) - 1 (at anchor) - 2 (not under command) - 3 (restricted manoeuvrability) - 4 (constrained by her draught) - 5 (moored) - 6 (aground)	MS2SSN_Ship_Res SSN2MS_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			- 7 (engaged in fishing) - 8 (under way sailing) - 9 till 14 (reserved -> should not be used) - 15 (not defined)	
NextPort	Text	5	When referring to a specific leg of a voyage, the next port is the next port to be visited after the leg's arrival port (i.e. after the port of call). When referring to a port stay, the next port of call is the arrival port for the next leg leading from this port. The port is identified by its 5-digit LOCODE	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
NextPortOfCall	Text	5	This attribute indicates the **actual** port of call, e.g. if the port of Oostende is sending this notification, then this PortOfCall attribute must be the location code of Oostende (BEOST) and not the next port of call after Oostende. The “port of call” attribute cannot be unknown (“ZZUKN”). The “port of call” attribute must only be the LOCODE of the specific port of call or its dependent port’s LOCODE	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res
NoOfPackages	Int		This is the number of packages covered by this cargo item in a specific location on board or in a cargo unit.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
NotifiedAt	DT		Date and time (ISO 8601 UTC format) when the alert has been notified.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
NumberOfCalls	Int		Specifies the number of ship calls referring to a specific ship in the request message.	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Other	Text	1-50	Free text entry. Any other ship observer identification.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_IncidentReport_Res
P1_DateTime	DT		Date and time when the incident took place or, if the cause of the pollution is not known, the time of the observation.If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P1_ReportType	ENUM		Supported report type. Possible values are: - Loss - Observation A. Loss (ship having lost a or several containers/packaged goods) B. Observation (ship noting the presence of containers/packages goods drifting at sea)	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P3_Incident	Text	1-256	Incident summary	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P4_NumberOfObjects	Int		Number of objects	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P4_Outflow	Text	1-256	The polluting substance, such as CRUDE OIL, CHLORINE, DINITROL, PHENOL as well as the total quantity in tonnes of the outflow and/or the flow rate, and the risk of further outflow should be mentioned. If there is no pollution, but a threat of pollution, the words NOT YET followed by the substance (for example NOT YET FUEL OIL) should be stated.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P40_DateTime	DT		Date and time. If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P41_PollutionPosition	Text	1-256	Indicates the main position of the pollution in degrees and minutes of latitude and longitude, and may in addition give the distance and bearing of some prominent landmark known to the receiver if other than indicated in POLWARN	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			(Position). Estimated amount of pollution (eg size of polluted areas, number of tonnes of oil spilled if other than indicated in POLWARN (Outflow), or number of containers, drums lost). Indicates length and width of slick given in nautical miles if not indicated in POLWARN (Position).	
P42_PollutionChars	Text	1-256	Gives type of pollution, eg type of oil with viscosity and pour point, packaged or bulk chemical, sewage. For chemicals proper name or United Nations number if known should be given. Appearance, eg liquid, floating solid, liquid oil, semi-liquid sludge, tarry lumps, weathered oil, Discolouration of sea, visible vapour should also be given as well as any markings on drums, containers	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P43_PollutionSource	Text	1-256	Indicates the source of pollution eg from vessel or other undertaking. If from vessel, it should be notified whether the pollution is a result of a deliberate discharge or casualty. If the latter, a brief description should be given. Where possible name, type, size, call sign, nationality and port of registration of polluting vessel should be mentioned. If vessel is proceeding on its way, course, speed and destination should be indicated.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P48_PollutionEffectForecast	Text	1-256	Results of mathematical models could indicate eg. arrival on beach with estimated timing	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P5_Acknowledge	Text	1-20	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P5_TypeOfGoods	Text	1-256	Recomendation: DG/PG : Y/N IMO/UN/IMDG Code Number	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P50_ActionTaken	Text	1-256	Mentions action taken for the disposal of the pollution	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_IncidentReport_Res
P51_Photographs	Text	1-256	Indicates if photographs or samples from the pollution have been taken. Contact numbers (including telephone, telefax and telex numbers as appropriate) of the sampling authority should be given.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P53_OtherInformation	Text	1-256	Spare for additional relevant information. eg results of sample or photographic analysis, results of inspections or surveyors, statements of ship's personnel	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P60_Acknowledge	Text	1-20	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P80_DateTime	DT		Date and time. If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P81_RequestForAssistance	Text	1-256	Type and amount of assistance required in form of: - specified equipment - specified equipment with trained personnel - complete strike teams - personnel with special expertise with indication of country requested	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P82_Cost	Text	1-256	Information on cost of delivered assistance to be notified to requesting country.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P83_PreArrangements	Text	1-256	Information concerning customs clearance, access to territorial waters in the requesting country.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P84_Delivery	Text	1-256	Information concerning the delivery of the assistance, eg rendez-vous at sea with information on frequencies to be used, call sign and name of Supreme On-Scene Commander	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			of the requesting country or land-based authorities with contact numbers (including telephone, telefax and telex numbers as appropriate) and contact persons.	
P86_ChangeOfCommand	Text	1-80	When a substantial part of an oil pollution or serious threat of oil pollution moves or has moved into the zone of another Contracting Party, the country which has exercised the supreme command or the operation may request the other party to take over the supreme command	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P87_ExchangeOfInformation	Text	1-256	When a mutual agreement has been reached between two parties on a change of supreme command, the country transferring the supreme command should give a report on all relevant information pertaining to the operation to the country taking over the command	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P88_OtherInformation	Text	1-256	Spare for any other relevant requirements or instructions.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P99_Acknowledge	Text	1-20	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
PackageType	ENUM		This is a description of the outer package of the cargo item. Possible values: two-letter alphabetic code of annex VI of UNECE R21. EDIFACT codes (7065)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PackingGroup	ENUM		May be applicable for some IMDG goods. There are IMDG goods without a packing group. Only applicable for IMO Hazard Class: 3, 4.1, 4.2, 5.1, 6.1, 8, 9. Not every good of these classes has a packing group. Possible values: "**I**", "**II**", "**III**" and "**NONE**" [value "**NONE**"to be removed following the V3-V4 transition]	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
Phone	Text	1-20	Phone number (country code included) of the contact person.	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
PlannedOperations	Text	0-256	Free text in English language describing the planned operations at the port or anchorage (loading, unloading, other)	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
PlannedWorks	Text	0-256	Free text in English language describing the planned statutory survey inspections and substantial maintenance and repair work to be carried out whilst in the port or anchorage of destination	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
POBVoyageTowardsNextPort	Int		Total number of persons aboard. To be used for notification(s) made along the voyage toward the NextPort. 99999 if actually unknown. The value 0 (Zero) is not allowed. Lower value: 1; Upper value: 99999. Note that the type “INT” prohibits the use of dots and commas	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
POBVoyageTowardsPortOfCall	Int		Total number of persons aboard. To be used for notification(s) made along the voyage toward the PortOfCall. 99999 if actually unknown. The value 0 (Zero) is not allowed. Lower value: 1; Upper value: 99999. Note that the type “INT” prohibits the use of dots and commas	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
Port	Text	5	Location code of port of the ship's last calls or scheduled route.	MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_Exemption_Req SSN2MS_Exemption_Res
PortDeliveryRemainingWaste	Text	5	Location code of the port where remaining waste will be disposed of.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PortFacility	Text	1-4	Port Facility as defined in ISPS Code The last 4 digits of the port facility's code as in the IMO GISIS maritime security database. Generic code "***0000***" to be used in case port facility is: - not ISPS-approved - recentlyapproved but still not included in the GISIS database	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
PortFacilityLocode	Text	5	This attribute indicates the port facility Locode (five characters LOCODE) as in the IMO GISIS maritime security database.	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
PortOfCall	Text	5	This attribute indicates the **actual** port of call, e.g. if the port of Oostende is sending this notification, then this PortOfCall attribute must be the location code of Oostende (BEOST) and not the next port of call after Oostende. The "port of call" attribute cannot be unknown ("ZZUKN"). The "port of call" attribute must only be the LOCODE of the specific port of call or its dependent port's LOCODE	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PortOfDeparture	Text	5	Location code of port of departure.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

<table>
<tr><th>Attribute name</th><th>Type</th><th>Len</th><th>Description and general rules</th><th>Message(s) that the attribute is included</th></tr>
<tr><td>PortOfDepartureQuotedInIR</td><td>Text</td><td>5</td><td>Location code of port of departure quoted in an incident report.</td><td>MS2SSN_IncidentReport_Req
SSN2MS_IncidentReport_Res</td></tr>
<tr><td>PortOfDestination</td><td>Text</td><td>5</td><td>Location code of port of destination.</td><td>MS2SSN_IncidentDetail_Not
SSN2MS_IncidentDetail_Tx
SSN2MS_IncidentReport_Res</td></tr>
<tr><td>PortOfDestinationQuotedInIR</td><td>Text</td><td>5</td><td>Location code of port of destination quoted in an incident report.</td><td>MS2SSN_IncidentReport_Req
SSN2MS_IncidentReport_Res</td></tr>
<tr><td>PortOfDischarge</td><td>Text</td><td>5</td><td>Identity of the port where the cargo will be discharged from the ship.
The port is identified by its 5-digit LOCODE</td><td>MS2SSN_ShipCall_Res
SSN2MS_ShipCall_Res</td></tr>
<tr><td>PortOfLoading</td><td>Text</td><td>5</td><td>Identity of the port where the cargo was loaded on board the ship.
The port is identified by its 5-digit LOCODE</td><td>MS2SSN_ShipCall_Res
SSN2MS_ShipCall_Res</td></tr>
<tr><td>PositionInPortOfCall</td><td>Text</td><td>0-50</td><td>Any 50 character free text value will be accepted. However M.S are encouraged to utilise a 15 characters (subsidiary) LOCODE identifying the position of a subsidiary location within the port or port approaches (e.g. a terminal in the port, a berth, an anchorage site, Fairway section code, Fairway section hectometer etc). The subsidiary LOCODES will be maintained within the SSN EIS LOCODE Databasefor subsidiary locations. The subsidiary LOCODES are provided through the “PositionInPortOfCall” and should follow the structure agreed by MSs during the SSN WS18
<table>
<tr><th>Item</th><th>Occ</th><th>Len</th><th>Description</th></tr>
<tr><td>PositionInPortOfCall</td><td>0-1</td><td>0-15</td><td></td></tr>
<tr><td>UN Locode</td><td>1</td><td>5</td><td>UN Locode</td></tr>
</table>
</td><td>MS2SSN_PortPlus_Not
MS2SSN_ShipCall_Res
SSN2MS_ShipCall_Res</td></tr>
</table>

<table>
<tr><th>Attribute name</th><th>Type</th><th>Len</th><th>Description and general rules</th><th>Message(s) that the attribute is included</th></tr>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>Fairway sectioncode</td><td>0-1</td><td>0-5</td><td>Port Basin or Port area</td></tr>
<tr><td>Terminal code</td><td>0-1</td><td>0-5</td><td>Terminal code</td></tr>
<tr><td>Fairway section hectometer</td><td>0-1</td><td>0-5</td><td>Port number or Terminal details</td></tr>
</table>

The M.S. should notify EMSA the list of subsidiary codes and the locations identified by each LOCODE in order to be registered in the SSN LOCODE Database. The procedure on how to notify is available in LOCODES guidelines</td><td></td></tr>
<tr><td>PossibleAnchorage</td><td>ENUM</td><td></td><td>Indicates whether a ship is expected to stay at an anchorage upon arrival at the PortOfCall. "Ship at anchorage" means a ship in a port or another area within the jurisdiction of a port, but not at berth, carrying out a ship/port interface. Possible values (at “sent-at” time):
Y: Ship expected to stay at anchorage
N: Ship expected to berth</td><td>MS2SSN_PortPlus_Not
SSN2MS_ShipCall_Res</td></tr>
<tr><td>ProviderOfLastUpdate</td><td>Text</td><td>3-32</td><td>Identifies the data provider of the information (UserID as defined in SafeSeaNet) to the data requestor.
The lenght allows compatibility between SSN v2 and v3 messages.</td><td>MS2SSN_PortPlus_Not
MS2SSN_ShipCall_Res
SSN2MS_ShipCall_Res</td></tr>
<tr><td>Quantity</td><td>Text</td><td>1-18</td><td>Free text entry. Indicating Quantity.</td><td>MS2SSN_PortPlus_Not
MS2SSN_Ship_Res
SSN2MS_Ship_Res
MS2SSN_ShipCall_Res (WasteItem and BunkerItem)
SSN2MS_ShipCall_Res (WasteItem and BunkerItem)</td></tr>
</table>

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
QuantityGross: Quantity	Decimal	(3)	Gross weight of the dangerous goods including respectively their packing, but without the equipment used by the carrier for their transport.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
QuantityNet: Quantity	Decimal	(3)	Net weight of the dangerous goods excluding respectively their packing, and without the equipment used by the carrier for their transport.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
ReasonForNoValidISSC	Text	1-256	The reasons why the ship has no valid ISSC.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
RecipientCountry	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN2MS_IncidentDetail_Tx_Ack
RecipientEmail_Ack	ENUM		OK: receipt acknowledged with status OK. KO: receipt acknowledged with status Not OK.	SSN2MS_IncidentDetail_Tx_Ack
RecipientUser_Email	Text	3-32	Unique identification in SSN of the email recipient user	SSN2MS_IncidentDetail_Tx_Ack
RecipientXML_Ack	ENUM		OK: receipt acknowledged with status OK. KO: receipt acknowledged with status Not OK.	SSN2MS_IncidentDetail_Tx_Ack
ReportingDateAndTime	DT		Date and Time of reporting. This time stamp corresponds also to the given position.	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res
ReportSequence	Int		Sequence number as defined and used by the coastal station managing the incident. Used for operational purpose. This information is not treated by the system.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Requestor	Text	3-32	Identifies the data requestor (UserID as defined in SafeSeaNet) to the data provider. The lenght allows compatibility between SSN v2 and v3 messages.	SSN2MS_ShipCall_Req
ROT	Int		Rate of Turn. Possible values are:	MS2SSN_Ship_Res SSN2MS_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			• from 0 to +126 (turning right at up to 708° per min. or higher) • from -126 to 0 (turning left at up to 708° per min. or higher) • +127 (turning right at > 5°/30s) • -127 (turning left at > 5°/30s) • -128 (no turn info available)	
RoutePlan	Text		Free text entry indicating the Route Plan	MS2SSN_Ship_Res SSN2MS_Ship_Res
SecurityLevel	ENUM		Ship's security level according to the ISPS code. Possible values: "**SL1**", "**SL2**" and "**SL3**"	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
SecurityMeasures	Text	0-256	Security measures applied in lieu	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
SecurityRelatedMatterToReport	Text	0-256	Security related matter to report, if any.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
SenderCountryId	Text	2	The Alpha-2 code (two-digits code) in accordance with the standard ISO 3166-1defining the country.	MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Ship_List_Req SSN2MS_Ship_List_Res
SentAt	DT		Date and time the message was sent. If local time is used MS application has to adjust the time to UTC.	ALL messages
ShipCallId	Text	1-36	Reference identifier, unique per MS, assigned by the notifying MS upon sending the first notification related to the ship call. The ShipCallId included in further updates of the initial notification must be the same as in the first notification related to the ship call.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
ShipConfiguration	ENUM		Identifier of the ship configuration: Possible values: **SHT** – indicating a single hull tanker, **SHT-SBT** indicating a single hull with segregated ballast tanks (SBT), **DHT** - indicating a double hull tanker	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ShipDraught	Int		In 1/10 m; 255 means 25.5 m or greater; 0 means not available; in accordance with IMO resolution A.851	MS2SSN_Ship_Res SSN2MS_Ship_Res
ShipName	Text	0-35	Name of the vessel Upon SOLAS, chapter I, part B, regulation 15 "Form Certificates", "the particulars inserted in the certificates shall be in Roman characters and Arabic figures". (From “A” to ”Z” and from 0 to 9). Additional characters allowed are dots “.”, dashes “-“ and single apostrophe “ ’ ”.	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
ShipNotType	ENUM		Possible values: - **MRS** - **AIS**	MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res
ShipType	ENUM		Codes the ship type according to UNECE R28. The actual codes shall be taken from and constructed according to the above reference. The code is a two- or three-digit number without any inserted space.	MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
SOG	Int		Speed over ground in 1/10 knot steps (0-102.2 knots). 102.3 = not available; 102.2 = 102.2 knots or higher. Example: A value of 893 means 89.3 knots. Lower value: 0; Upper value: 1023.	MS2SSN_Ship_Res SSN2MS_Ship_Res
SpecialOrAdditionalSecurityMeasures	Text	0-256	Special or additional security measures taken by the ship.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Speed	Text	1-20	Indicates speed in m/sec or in knots and tenths of knots depending on the type.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
SSN_ID_AuthorityXML	Text	7-32	Unique identification in SSN of the XML recipient Authority	SSN2MS_IncidentDetail_Tx_Ack
SSNRefId	UUID	1-36	Reference number given by the SafeSeaNet. It must be inserted later by the national SSN systemin the SSNRefID attribute of the MS2SSN_<SSN_Tx_type>_Res.xml response and will be used for correlation when SafeSeaNet will receive the response from national SSN system	SSN2MS_Ship_Req SSN2MS_Ship_Res SSN2MS_ShipCall_Res SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res SSN_Receipt
SSNUserID	Text	3-32	A valid SSN unique user Identifier. The lenght allows compatibility between SSN v2 and v3 messages.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
StartDateTime	DT		Starting point of a time window declared to define a query	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
StatusCode	ENUM		Global status code. See “Validation of the XML messages” section for possible values	SSN_Receipt MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
StatusMessage	Text	0-255	Global status message string	SSN_Receipt MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_IncidentReport_Res SSN2MS_Exemption_Res
SubsidiaryRisk	Text	1-17	Any risks in addition to the class to which dangerous goods are assigned; and which is determined by a requirement to have a subsidiary risk.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
TextualReference	Text	1-350	This is the proper shipping name, completed with the technical name where appropriate, for goods under IMDG Code, or the product name for goods under IBC Code and IGC Code, or the bulk cargo shipping name for goods under IMSBC Code, or the name of oil for goods under Annex I to the MARPOL Convention.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
TestId	Text	0-8	Test Case identification. Only useful for testing.	ALL messages
TimeoutValue	Int		Timeout value (in seconds) indicating when the request should be considered as expired and must not be processed	MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_IncidentReport_Req MS2SSN_Exemption_Req
Timestamp	DT		Date and time of the ship position reporting.	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res
To	Text	7-32	The reference identification of the recipient of the message (‘SSN’)	All messages
TotalNrOfPackages	Int		This is the total number of packages on all cargo units covered by this cargo item	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
TotalPersonsOnBoard	Int		Total number of persons aboard. To be used for notification(s) made along the voyage toward the PortOfCall.	MS2SSN_Ship_Not MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			99999 if actually unknown. The value 0 (Zero) is not allowed. Note that the type "INT" prohibits the use of dots and commas	SSN2MS_Ship_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
TransportDocumentID	Text	1-35	Identifies the Transport document ID, e.g., Bill of Lading, identity code	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
TransUnitId	Text	1-17	Identification number of cargo transport unit (if no tanks). For containers, this shall be the identification code as defined in ISO 6346 (limited to goods under IMDG code)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Type	ENUM		Type of the incident notification among the following possible values: - SITREP - POLREP - Waste - LostFoundContainers - Others - FailedNotification - VTSRulesInfringement - BannedShip - InsuranceFailure - PilotOrPortReport	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
UnitOfMeasurement	ENUM		Indication of the unit of measurement in which the weight (mas) or volume is expressed. Possible values are: ▪ **KGM** (kilogram) ▪ **TNE** (Metric tonne)	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			▪ **M3** (Cubic meter)	
UNNumber	Text	4	UN number of DPG.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
UpdateMSRefId	UUID	1-36	A reference number identifying the MSRefId of the notificationto be updated	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_IncidentDetail_Not
UpdateStatus	ENUM		Potential values: 1. **N** for a new notification 2. **U** for an updating notification related to a previous one identified by the UpdateMSRefID attribute. 3. **D** for deleting a notification. This is to be used to remove notifications that were reported by mistake. This does not actually delete the notification from the SSN database, but invalidates the notification. Note: this value is only allowed for some types of notification. Please refer to business rules. Possible cases: Case: **UpdateStatus="N"** In this case UdateMSRefId should be omitted Case: **UpdateStatus="U"** or **UpdateStatus="D"** In this case UpdateMSRefId=MSRefId of affected msg (s)	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx
Url	Uri	20-256	Url of the document containing the notification details. If SafeSeaNet receives a request for getting detailed information about this notification, it will use this url to download the document.	MS2SSN_Ship_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_Res
Url	Uri	20-256	Provides a surrogated URL located at central SSN server masking the original URL provided in the PortPlus Notification of the *data provider*. The *data requestor* system may utilise this URLto communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details.	SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
ValidISSC	ENUM		Indicates if the ship has a valid International Ship Security Certificate (ISSC). This is a yes (**Y**) /no (**N**) data element.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Version	ENUM		SafeSeaNet request current version ('x.x') Possible values: "**3.0**" or "**4.0**"	ALL messages
Visibility	Text	1-20	Indicates visibility in nautical miles	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
WasteCode	ENUM		Waste type code as defined in Annex B In addition, for Exemptions "all waste types" code is "0000"	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
WasteDeliveryDuePort	Text	5	Location code of the port where waste-delivery was due.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
WasteDeliveryStatus	ENUM		If ship delivers all, some or none of its waste in the port it reports to. Possible values: "**All**", "**Some**" or "**None**"	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
WasteDescription	Text	1-256	Free text description of waste type.	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_Exemption_Res
WaveHeight	Text	1-20	Indicates the wave height in metres.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Annex B - Waste type codes

Description List of the Waste type codes as approved by the eMS group in the Waste Business Rules

Description as in eMS Business Rules document	Free text description needed	Code	Description	Change in SSN V4
1.WASTE OILS		-		
1.2 Oily Bilge water		1200	Oily Bilge water	Renamed
1.1 Oily Residues (Sludge)		1100	Oily Residues (Sludge)	Renamed
1.3 Others - specify: choose from below: (except: cargo residues)		-		
1.3.1 Used engine oil		1301	Used engine oil	
1.3.2 Other - specify in free text field	X	1300	Other waste oils	
2. SEWAGE		3000	Sewage	
3. GARBAGE		-		
3.1 Plastic		2200	Plastics	Renamed
3.2 Food waste		2100	Food waste	
3.2.1 International catering waste		2301	International catering waste	
3.2.2 Other food waste		2102	Other food waste	Added
3.3 Domestic wastes - choose from below: (except: cargo residues)		-		Renamed
3.3.1 Paper products		2302	Paper products	
3.3.2 Rags		2303	Rags	
3.3.3 Glass		2304	Glass	
3.3.4 Metal		2305	Metal	
3.3.5 Bottles		2306	Bottles	

Description as in eMS Business Rules document	Free text description needed	Code	Description	Change in SSN V4
3.3.6 Crockery		2307	Crockery	
3.3.7 Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.) - specify in free text field	X	2310	Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.)	
3.3.8 Other - specify in free text field	X	2300	Otherdomestic wastes	
3.4 Cooking oil		2311	Cooking oil	
3.5 Incinerator ashes		2308	Incinerator ashes and clinkers	Renamed
3.6 Operational wastes		2600	Operational wastes	Added
3.7 Animal carcasses		2309	Animal carcasses	
[2.3.12 Deck and external surfaces wash water containing cleaning agents or additives harmful to the marine environment]		*[2312]*	*[Deck and external surfaces wash water containing cleaning agents or additives harmful to the marine environment]*	*To be removed following V3-V4 transition*
[4. CARGO ASSOCIATED WASTE (Marpol Annex V)- *specify in free text field (may be estimates)]*	*X*	*[4000]*	*[Cargo associated waste]*	*To be removed following V3-V4 transition*
[4.1.1 Dunnage, lining or packing material]		*[4101]*	*[Dunnage, lining or packing material]*	*To be removed following V3-V4 transition*
[4.1.2 Other - specify in free text field]	*X*	*[4100]*	*[Other cargo associated waste]*	*To be removed following V3-V4 transition*
4. CARGO RESIDUES - specify in free text field (may be estimates)	X	*[5000]*	Cargo residues	*To be removed following V3-V4 transition*
4.1 Marpol Annex I: choose from below		-		
4.1.1 Oily tank washings		5101	Oily tank washings	

Description as in eMS Business Rules document	Free text description needed	Code	Description	Change in SSN V4
4.1.2 Oily (dirty) ballast water		5102	Oily (dirty) ballast water	
4.1.3 Scale and sludge from tank cleaning		5103	Scale and sludge from tank cleaning	
4.1.4 Other - specify in free text field	X	5100	Other Marpol Annex I cargo residues	
4.2 Marpol Annex II: choose from below		-		
4.2.1 Washing waters containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS:	X	5201	Washing waters containing noxious cargo residues	
4.2.2 Ballast water containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS	X	5202	Ballast water containing noxious cargo residues	
4.2.3 Other, specify in free text field by using MARPOL Annex II category X, Y, Z, OS	X	5200	Other Marpol Annex II cargo residues	
4.3 Marpol Annex V: choose from below		-		
4.3.1 Cargo hold washing water containing residues and or cleaning agents or additives harmful to the marine environment: specify in free text field	X	5301	Cargo hold washing water containing residues and or cleaning agents or additives harmful to the marine environment	
4.3.2 Cargo hold washing water containing residues and or cleaning agents or additives NOT harmful to the marine environment: specify in free text field	X	5302	Cargo hold washing water containing residues and or cleaning agents or additives NOT harmful to the marine environment	
4.3.3 Dry cargo residues harmful to the marine environment: specify in free text field	X	5303	Dry cargo residues harmful to the marine environment	
4.3.4 Dry cargo residues NOT harmful to the marine environment: specify in free text field	X	5304	Dry cargo residues NOT harmful to the marine environment	
4.3.5 Other - specify in free text field	X	5300	Other Marpol Annex V cargo residues	

Annex C - Changes from previous XML Reference Guide versions

Description List of the changes from previous XML Reference Guide versions

Changes from version 4.01 to version 4.02

Introduction Changes to the document from previous version 4.01 to version 4.02 are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
28 31-32	PortPlus Notification Message Consolidation into a Voyage process	Changes in the voyage status to align with SSN System Design Document	06/03/2020		
84 89 162 165 175 189 211 215	MS2SSN_PortPlus_Not.xml message MS2SSN_Exemption_Not.xml message MS2SSN_ShipCall_Req.xml message SSN2MS_ShipCall_Req.xml message MS2SSN_ShipCall_Res.xml message SSN2MS_ShipCall_Res.xml message MS2SSN_Exemption_Req.xml message SSN2MS_Exemption_Res.xml message	Added new and updated existing sample XML messages version to 4	27/03/2018	Added new and updated existing sample XML messages to v.4	
89	MS2SSN_Exemption_Not.xml message	Clarification on the Business Rules for Ports to which the exemption applies and the Authority		Clarifications on Business Rules applicable to the SSN2MS_ShipCall_Req message	
182	SSN2MS_ShipCall_Res.xml message	Clarification on the General Rules for when the exemption is considered relevant for a ship call			
190	Section 3.8 - Get Incident Report Notification Details	Modification of the description of the xml flow			
208	Section 3.9 - Get ExemptionNotification Details	Modification of the description of the xml flow			
210	MS2SSN_Exemption_Req business rules	Correction for consistency between messages (with MS2SSN_Exemption_Not)			
212, 215, 216	SSN2MS_Exemption_Res.xml message	Correction for consistency between messages (with MS2SSN_Exemption_Not)			

Changes from version 4.00 to version 4.01

Introduction

Changes to the document from previous version 4.00 to version 4.01 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
87, 89	MS2SSN_Exemption_Not .xml message	Correction on 'ExemptedWasteTypes' element, moved one level up, outside the 'ExemptionAppliesTo-element'	31/10/2017	Correction of typos and inconsistencies with the XSD v4.00	
169	MS2SSN_ShipCall_Res.x ml message	Correction BunkersInformation element is child of QueryResults. Previouslly it appered as child of SecurityInformation			
178, 184	SSN2MS_ShipCall_Res.x ml message	For consistency inclusion of BunkersConfirmation element			
178, 185	SSN2MS_ShipCall_Res.x ml message	Correction ofthe Occ for Route to 1-∞ to ensure consistency with Exemption notification			
178, 185	SSN2MS_ShipCall_Res.x ml message	Correction on 'ExemptedWasteTypes' element, moved one level up, outside the 'ExemptionAppliesTo-element'			
178, 185	SSN2MS_ShipCall_Res.x ml message	Correction ofthe Occ for PortFacilityLocode to 1 to ensure consistency with Exemption notification			
181, 189	SSN2MS_ShipCall_Res.x ml message	For consistency between messages (with MS2SSN_ShipCall_Res) BunkersDetails element is renamed to BunkersInformation			
181, 189	SSN2MS_ShipCall_Res.x ml message	For consistency between messages (with MS2SSN_ShipCall_Res) BunkerCode element is renamed to BunkerType			
212	SSN2MS_Exemption_Res .xml message	Correction ofthe Occ for Port to 1 to ensure consistency with Exemption request			
213	SSN2MS_Exemption_Res .xml message	Correction in the MSRefId business rule			
215	SSN2MS_Exemption_Res .xml message	Correction on 'ExemptedWasteTypes' element, moved one level up, outside the 'ExemptionAppliesTo-element'			
226	Annex A - XML attributes	ExemptionType attribute, the space ' ' character included in the different waste exemption types is removed			
254	Annex A - XML attributes	Version attribute modified as Version 4.00 xsd will be accepting both "3.0" and "4.0" values in order to ensure backward compatibility with version 3.0 messages			

Changes from version 3.05 to version 4.00

Introduction

Changes to the document from previous version 3.05 to version 4.00 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
26	Description of the "Send Notifications" process	Types of notifications updated	HLSG 2 (20 June 2017)	Scope of the SSN v4: • Revised Waste Business Rules; • business rules for reporting of bunkers in SSN; • Technical amendments to the Hazmat information; • Amendments to the reporting of Exemptions. In addition, improvements of a more technical nature which will address longstanding issues from previous versions: • Phase out of version 2 messages • Phase out of Alert messages	
35	Description of the "Information Requests" process	Types of requests updated			
41	Section 3.1 - Overview	Updated overview of SafeSeaNet XML Messages			
71	MS2SSN_Alert_Not.xml message	Deleted			
72	MS2SSN_PortPlus_Not.xml message	- Added element group for bunker reporting; - Added attribute PortFacilityLocode; - Added element group for reporting Waste details in the notification			
87	MS2SSN_Exemption_Not	Updated message to include the port(s) to which the exemption is applicable, the exempted port facilities for Security exemptions and the exempted waste types for waste types exemptions.			
152	Section 3.7 – Get Alert Notification Details	Deleted			
154	MS2SSN_ShipCall_Req.xml message	Updated messages in line with the updates on the PortPlus notification			
163	SSN2MS_ShipCall_Req.xml message				
166	MS2SSN_ShipCall_Res.xml message				
176	SSN2MS_ShipCall_Res.xml message				
208	Section 3.9 - Get Exemption Notification Details	New message for requesting information on exemptions (in addition to the web interface)			
216	Annex A - XML attributes definitions (type / length/ description)	Updated with new attributes: - BunkerDescription - BunkersReportedYorN - BunkerType - DeleteBunkersNotificationTowardsNextPort - DeleteBunkersNotificationTowardsPortOfCall - ExemptionType – updated ENUM values - GetBunkers - GetBunkersType - IMOClass – updated description - IMOHazardClass – updated description - MarpolCode – updated ENUM values - NextPort – updated description - PackingGroup – updated description and ENUM values			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
		- PortFacilityLocode - WasteCode – additional code "0000" for Exemptions for "all waste types" Deleted attributes: - Attritutes related to Alert message			
255	Annex B - Waste type codes	Updated in line with the revison of Annex II of Directive 2000/59/EC and Waste Business Rules v1.02			

Changes from version 3.04 to version 3.05

Introduction Changes to the document from previous version 3.04 to version 3.05 are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
77	Section 3.4 – MS2SSN_PortPlus_Not	Archiving rules for Ship Calls	06-11-2013	SSN 20 action point 6, SSN 20.4.4	
82	Section 3.4 – MS2SSN_PortPlus_Not	InmarsatCallNumber clarification added			
82	Section 3.4 – MS2SSN_PortPlus_Not	ETAToNextPort: Remove BR ETAToNextPort must be > ATDPortOfCall	11-05-2016	SSN 25 action point 9, SSN 25.4.5	
98, 115	Section 3.5 - Send IncidentDetail Notifications	Correction on SITREPInformation to align with XSD		Request from MS (MSS#165758)	
102, 109	Section 3.5 - Send IncidentDetail Notifications - Business Rules	Amendment of business rules applicable to element P2_ShipOrObserverIdentification in messages MS2SSN_IncidentDetail_Not, SSN2MS_IncidentDetail_Tx and SSN2MS_IncidentReport_Res	11-05-2016	SSN 25 action point 6, SSN 25.4.2	
249	Annex A - XML attributes	Correction on Inmarsat. The following characters are not accepted: ',' '&' ' _'		Impact on SSN-THETIS interface	
260	Annex A - XML attributes	Correction on attribute P5_TypeOfGoods, to align with XSD			
263	Annex A - XML attributes	Clarification regarding the restrictions of length for attribute POB (i.e. 5 digits) or range 1..99999		Request from MS (MSS#162232)	
266	Annex A - XML attributes	Correction on RecipientXML_Ack to align with XSD		Request from MS (MSS#165758)	
270	Annex A - XML attributes	Clarification on the SSNRefId to be included in the SSN_Receipt message		Request from MS (MSS#165683)	

Changes from version 3.03 to version 3.04

Introduction Changes to the document from previous version 3.03 to version 3.04 are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
82	Section 3.4 – MS2SSN_PortPlus_Not	Change of business rules regarding attribute “ETDFromPortOfCall”		SSN 23.6.1, SSN 23action point 10	
83	Section 3.4 – MS2SSN_PortPlus_Not	Change of business rules regarding attribute “ATAPortOfCall”		SSN 23 action point 9, SSN 24.4.1	
82	Section 3.4 – MS2SSN_PortPlus_Not	Recommendation added for element “VesselDetails”			
197	Section 3.8 - MS2SSN_ShipCall_Res	Change of business rules regarding attributes “IMOHazardClass” and “UNNumber”		SSN 24.4.1, SSN 24.4.2	

Changes from version 3.02 to version 3.03

Introduction Changes to the document from previous version 3.02 to version 3.03are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
	Validation of the XML messages	Update XML example messagesFrom=”SafeSeaNet” not “SSN”		Correction oftypos noted in the XML RG version 3.02	
78	Section 3.4 – MS2SSN_PortPlus_Not	UpdateStatus: remove expiration of PortPlus notifications "The message will expire and its content ignored if the original message is not received within 24 hours."			
81	Section 3.4 – MS2SSN_PortPlus_Not	Typo in BR "HazmatOnBoardYorN" it should be HazmatNotificationInfoNonEUDepartures			
157	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – ExpectedCallOfSelectedShipcorrection in the Result of query			
157	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – MostRecentArrivalOfSelectedShip correction in the Result of query			
157	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – RecentAndCurrentShipCallsOfSelectedShip correction in the Result of query			
159	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – SelectedShipCall correction in the Result of query			
159	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – GetActiveHazmatForSelectedShip, GetActiveSecurityForSelectedShip and GetActiveWasteForSelectedShip correction in the Parameters & Options			
165	Section 3.8 – SSN2MS_ShipCall_Req	Typo in BR GetHazmatType in the possible values.			
167, 168	Section 3.8 – MS2SSN_ShipCall_Res	Correction on the attribute name "GrossQuantity" and "NetQuantity" to "Quantity" to align with XSD			
167, 171, 172	Section 3.8 – MS2SSN_ShipCall_Res	PortOfCall correction in Occ. to "1" to be aligned with the XSD			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
171, 173, 173	Section 3.8 – MS2SSN_ShipCall_Res	Clarification on the business rule for the provision of Hazmat, Security and Waste detailsto reflect the description in the root node of each details type			
172	Section 3.8 – MS2SSN_ShipCall_Res	Clarification on the business rule for "TransportEquipmentUnit" and "NonTransportEquipmentUnit"			
179, 186	Section 3.8 – SSN2MS_ShipCall_Res	Correction on the attribute name "GrossQuantity" and "NetQuantity" to "Quantity" to align with XSD			
229	Annex A - XML attributes definitions	Attribute 'GetHazmatType':correction in the ENUM values to align with XSD			
230, 247	Annex A - XML attributes definitions	Attribute 'GrossQuantity': deleted as its is replaced by attribute 'Quantity to align with XSD			
238, 247	Annex A - XML attributes definitions	Attribute 'NetQuantity': deleted as its is replaced by attribute 'Quantity to align with XSD			
247	Annex A - XML attributes definitions	Clarification on attribute "Quantity" when used for WasteItem in ShipCall_Res			
246	Annex A - XML attributes definitions	Attribute 'ProviderOfLastUpdate': change in the lenght to 3-32 to allow compatibility between SSN v2 and v3 messages			
247	Annex A - XML attributes definitions	Attribute 'Requestor': change in the lenght to 3-32 to allow compatibility between SSN v2 and v3 messages			
258	Annex A - XML attributes definitions	Attribute 'SSNUserID': change in the lenght to 3-32 to allow compatibility between SSN v2 and v3 messages			
81	Section 3.4 – MS2SSN_PortPlus_Not	INFShipClass:replace description of the business rule		Non-technical amendments to the XML RG version 3to align with the SSN Guidelines on Reporting HAZMAT (SSN 23.3.3, Action point 2)	
81	Section 3.4 – MS2SSN_PortPlus_Not	DG: Include reference to the SSN Guidelines on Reporting HAZMAT on the business rule			
172	Section 3.8 – MS2SSN_ShipCall_Res	DGClassification: clarification on the business rule and include reference to the SSN Guidelines on Reporting HAZMAT			
225	Annex A - XML attributes definitions	Attribute 'EmSNumber':clarification in the description			
227	Annex A - XML attributes definitions	Attribute 'FlashPoint':correction in the description			
233	Annex A - XML attributes definitions	Attribute 'LocationOnBoard': correction in the description			
-	Annex C – Dangerous and Polluting Goods	Deletion of Annex C as this recommendation is no longer required in view of the adoption of the SSN Guidelines on reporting HAZMAT			
244	Annex A - XML attributes definitions	Attribute 'PortFacility': included generic code "***0000***" to be used in case port facility is not ISPS-approved		SSN 23.6.2, Action point 12	

Changes from version 3.01 to version 3.02

Introduction

Changes to the document from previous version 3.01 to version 3.02 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
34	Description of the “Send Notifications” process	Voyage consolidation rule 2 removed	13-11-2014	Correction oftypos noted in the XML RG version 3.01	
52	Location codes	Update reference to the LOCODEs Guidelines document			
60	Status Codes and Status Messages	Include additional Warning: “WARNING: the Coastal Station (attribute CSTIdentification) is unknown to the system”			
70	Section 3.4 – MS2SSN_Ship_Not	“NextPortOfCall” attribute update reference to the LOCODEs Guidelines document			
73	Section 3.4 – MS2SSN_PortPlus_Not	NotificationStatus occurrence corrected to Occ "1" to align with schema			
74; 80	Section 3.4 – MS2SSN_PortPlus_Not	ATDPortOfCall occurrence changed to Occ “0-1” to allow reporting HazmatNotificationInfoEUDepartures before departure			
87	Section 3.4 – MS2SSN_Exemption_Not	VesselIdentification occurrence corrected to Occ “0-1” as in Business Rules table			
		ExemptionDetails occurrence corrected to Occ “0-1” as in Business Rules table			
134	Section 3.6 – MS2SSN_Ship_Res	ContactDetails occurrence corrected to Occ “0-1” as in Business Rules table			
164; 170	Section 3.7 – MS2SSN_Alert_Res	Typo correctedin PortOfDeparture attribute			
164; 170	Section 3.7 – MS2SSN_Alert_Res	Alignment of contact details occurrence with schema			
158	Section 3.8 – MS2SSN_ShipCall_Req	Table 4 – ExpectedShipCallsAtEUPort business rules parameters corrected			
163	Section 3.8 – SSN2MS_ShipCall_Req	AdditionalSearchCriteria occurrence corrected to Occ “1” as in Business Rules table			
166	Section 3.8 – MS2SSN_ShipCall_Res	Body occurrence corrected to Occ “0-1” as in Business Rules table			
166; 170	Section 3.8 – MS2SSN_ShipCall_Res	Alignment of AdditionalSearchCriteria occurrence “1” with SSN2MS_ShipCall_Req			
168; 173	Section 3.8 – MS2SSN_ShipCall_Res	Alignment of WasteSummary occurrence “0-1” with schema			
168; 173	Section 3.8 – MS2SSN_ShipCall_Res	Alignment of SecuritySummaryoccurrence “0-1” with schema			
169; 173	Section 3.8 – MS2SSN_ShipCall_Res	Alignment of SecurityDetailsoccurrence “1” with schema			
170	Section 3.8 – MS2SSN_ShipCall_Res	StatusMessage occurrence corrected to Occ “0-1” as in Message description			
172	Section 3.8 – MS2SSN_ShipCall_Res	FlashPoint corrected to Occ “0-1” as in Message description	13-11-2014	Correction oftypos noted in the XML RG version 3.01	
172	Section 3.8 – MS2SSN_ShipCall_Res	QuantityGross and QuantityNet description corrected			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
173	Section 3.8 – MS2SSN_ShipCall_Res	WasteDetails occurrence corrected to Occ “1” as in Message description			
173	Section 3.8 – MS2SSN_ShipCall_Res	PortDeliveryRemainingWaste buiseness rule removed			
176	Section 3.8 – SSN2MS_ShipCall_Res	Body occurrence corrected to Occ “0-1” as in Business Rules table			
176; 182	Section 3.8 – SSN2MS_ShipCall_Res	Alignment of TimePeriodCriteriaoccurrence “0-1” with schema			
177	Section 3.8 – SSN2MS_ShipCall_Res	PortOfCall occurrence corrected to Occ “1” as in Business Rules table			
178; 184	Section 3.8 – SSN2MS_ShipCall_Res	ATDPortOfCall occurrence changed to Occ “0-1” in case HazmatNotificationInfoEUDepartures reported before departure			
179; 186	Section 3.8 – SSN2MS_ShipCall_Res	Alignment of TransportEquipmentUnit occurrence “0-∞” with schema			
181	Section 3.8 – SSN2MS_ShipCall_Res	SecurityMeasures corrected to Occ “0-1” as in Business Rules table			
182	Section 3.8 – SSN2MS_ShipCall_Res	ShipCallIdentificationCriteria occurrence corrected to Occ “0-1” as in Message description			
-	Section 3.8 – SSN2MS_ShipCall_Res	Deleted duplicated entry of ShipIdentificationCriteria			
182	Section 3.8 – SSN2MS_ShipCall_Res	ShipCallId occurrence corrected to Occ “0-1” as in Message description			
183	Section 3.8 – SSN2MS_ShipCall_Res	Attribute CallPurposeCode corrected in *PurposeOfCall*group element as in Message description			
186	Section 3.8 – SSN2MS_ShipCall_Res	FlashPoint corrected to Occ “0-1” as in Message description			
187	Section 3.8 – SSN2MS_ShipCall_Res	WasteItem corrected to Occ “0-∞” as in Message description			
172	Annex A - XML attributes definitions	DGClassification additional value “X” added in SSN2MS_ShipCall_Res.xml for cases where the MS2SSN_ShipCall_Res was provided inthe SSN v2 format (for the purpose of V2-V3 transition period)			
252	Annex A - XML attributes definitions	Attribute ‘Type’ ENUM values corrected to be aligned with schema			
251	Annex A - XML attributes definitions	TotalNrOfPackages attribute definition corrected			

Changes from version 3.00 toversion 3.01

Introduction

Changes to the document from previous version 3.00 to version 3.01 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
73	Section 3.4 – MS2SSN_PortPlus_Not	Inclusion of the following attributes: -DeleteHazmatNotificationInfoNonEUDepartures	08-05-2014	Improvements on the PortPlus	

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
		-DeleteHazmatNotificationInfoEUDepartures -DeleteWasteNotification -DeleteSecurityNotification	(SSN WS 21)	exchange of information	
77	Section 3.4 – MS2SSN_PortPlus_Not – General rules	PortPlus general rule no. 10 amended			
78	Section 3.4 – MS2SSN_PortPlus_Not – item	Inclusion of the following attributes: -DeleteHazmatNotificationInfoNonEUDepartures -DeleteHazmatNotificationInfoEUDepartures -DeleteWasteNotification -DeleteSecurityNotification			
222	Annex A -XML attributes definitions	Updated with new attributes: -DeleteHazmatNotificationInfoNonEUDepartures -DeleteHazmatNotificationInfoEUDepartures -DeleteWasteNotification -DeleteSecurityNotification			
129	Section 3.6 - MS2SSN_Ship_Req – Table 2	Misspelled attribute name “ReportingDateTime” amended to “ReportingDateAndTime”	Correction oftypos	Typos noted in the XML RG version 3.00	
142	Section 3.6 - SSN2MS_Ship_Res – General rule no. 2				
142	Section 3.6 - SSN2MS_Ship_Res – Description of attribute “SentAt”				
147	Section 3.6 - MS2SSN_Ship_List_Req – Table 3 – ID 1				
149	Section 3.6 - SSN2MS_Ship_List_Res				
150	Section 3.6 - SSN2MS_Ship_List_Res - Description				

Changes from version 2.08 to version 3.00

Introduction Changes to the document from previous version 2.08 to version3.00 are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
8	Legal Framework	Update the legal basis with Directive 2010/68/EU and Regulation and Regulation (EC) No 725/2004	06-11-2013 (SSN WS 20)	Update of SSN to include the changes diriving from the Reporting Formatilties Directive (Dir. 2010/65/EU)	
22	Definition of a Data Provider	Remove the type of data provider storing information in paper format			
26	Description of the “Send Notifications” process	Notification types updated			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
35	Description of the "Information Requests" process	Information Request Types updated			
41	Section 3.1 - Overview	XML messages updated. The following messages were removed: • Send Security notification • Get Port Notification Details • Get Hazmat Notification Details • Get Security Notification Details The following messages were added: • Send Exemption notification			
43	Section 3.2 - Conventions	"Decimal" data type added			
45	Section 3.2 - Conventions/ Conventions for naming the XML messages	Naming convention updated with messages removed and new messages added			
51	Section 3.2 – Conventions / Status Codes and Status messages	Chapter moved to Section 3.3 - SSN_Receipt XML message			
55	Section 3.2 – Conventions / SafeSeaNet Roles	Roles SEC, WAS, SW added			
66	Section 3.4 – Send Notifications /MS2SSN_Ship_Not.xml message	MRS type updated with the new elements: • MRSIdentification • CSTIdentification • AnyDG • ReportingDateAndTime Possibility to provide the Ship MRS details in URL details and Contact details removed.		Improvements on the Ship MRS exchange of information	
71	Section 3.4 – Send Notifications	MS2SSN_Security_Not.xml message removed		Update of SSN to include the changes diriving from the Reporting Formatilties Directive (Dir. 2010/65/EU)	
72-84	Section 3.4 – Send Notifications / MS2SSN_PortPlus_Not.xml message	- Inclusion of information from Security and Waste notifications. - Removal of Hazmat details via phone/fax and URL. - Adaptation of general business rules and individual business rules.			
86	Section 3.4 – Send Notifications	Exemption notification added (MS2SSN_Exemption_Not.xml) including Waste exemptions following HLSG 10 decison	06-11-2013 (SSN WS 20)		
126	Section 3.6 - Get Port Notification Details	Removed			
127-144	Section 3.6 - Get Ship Notification Details	- Possibility of requesting the Ship notification details specifying the type AIS or MRS (ShipNotType); - Possibility of requesting the Ship MRS notification details for a specific MRS (MRSIdentification) and for a specific MS (SenderCountryId); - MRS Details type updated with the new elements: • MRSIdentification • CSTIdentification • AnyDG • ReportingDateAndTime • AOI - Removal of Ship MRS details via phone/fax and URL		Improvements on the Ship MRS exchange of information	

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
145	Section 3.6 - Get Ship Notification Details / MS2SSN_Ship_List_Req SSN2MS_Ship_List_Res	- New messages to request a list of Ship MRS notifications about a given MRS area for a specific period		Update of SSN to include the changes diriving from the Reporting Formatilties Directive (Dir. 2010/65/EU)	
-	Section 3.7 - Get Hazmat Notification Details	Removed			
-	Section 3.9 - Get Security Notification Details	Removed			
152-189	Section 3.8 – Get PortPlus notifications details	- Added possibility to request Waste and Security details. - Added query parameters “ShipCallId” and “NumberOfCalls”. - Adapted business rules applied to queries. - Changed some query parameters to optional parameters. - Removed queries of types “LatestRegisteredShipCallDataOfSelectedShip” and “ShipCallsRegisteredBySSNYesterday”, “LatestCallInfoAtSpecificPort” - Added queries of types “SelectedShipCall”, “GetActiveSecurityForSelectedShip” and “GetActiveWasteForSelectedShip”. - Adaptated general business rules and individual business rules - Added information on Waste, Security and Hazmat in “Res” messages.			
216	Annex A -XML attributes definitions	Updated with new attributes: - Activity - AdditionalInformation - AgentName - AOI - ApprovedSecurityPlan - AuthorityType - BriefCargoDescription - CallPurposeCode - CertificateNumber - CompanyName - Country - CSTIdentification - CurrentSecurityLevel - DateFrom - DateOfArrival - DateOfDeparture - DateTo - EmSNumber - ExpiryDate - ExemptionPreArrival24Hours - ExemptionHazmat - ExemptionID - ExemptionSecurity - ExemptionType - FlashPoint - GetWaste - GetSecurity - GrossTonnage - IMOCompanyNr			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
		- Inmarsat - ISSCType - IssueDate - Issuer - IssuerType - LastPortDelivered - LastPortDeliveredDate - LastUpdateReceivedAt - LocationName - MarpolCode - MRSIdentification - NoOfPackages - NumberOfCalls - PackageType - PackingGroup - Port - PortDeliveryRemainingWaste - PortFacility - PortOfDischarge - PortOfLoading - ProviderOfLastUpdate - ReasonForNoValidISSC - Requestor - SecurityLevel - SecurityRelatedMatterToReport - SenderCountryId - ShipNotType - SpecialOrAdditionalSecurityMeasures - SubsidiaryRisk - TotalNrOfPackages - TransportDocumentID - ValidISSC - WasteCode - WasteDeliveryStatus - WasteDescription			
228 250 251	Annex A / Naming convention	Length of From, To, SSNUserID, SSN_ID_AuthorityXMLattributes to a minimum of 7 and a maximum of 32 characters	06-11-2013 (SSN WS 20)	Harmonization required for the common Naming Convention	
255	Annex B - List of the Waste type codes as approved by the eMS group in the Waste Business Rules	Added		Update of SSN to include the changes diriving from the Reporting Formatilties Directive (Dir. 2010/65/EU)	
181	Annex C - Dangerous and Polluting Goods - Recommendation on list of applicable data elements for DPGItems depending on DGClassification (IMO Code)	Added			

Changes from version 2.07 to version 2.08

Introduction

Changes to the document from previous version 2.07 to this version 2.08 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
69 138 - 180 186	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_ShipCall_Res	Change element 'ETA' to optional in *AISVoyageInformation* element node Change element 'CargoManifest' to optional in ShipCall response	06-11-2013	Removed business rule as no longer applicable	Corrections on v2.07
117 204	SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res	Misspelled element name"ShipPositionAtTheTimeIncident" and "ShipPositionAtTimeIncident amended to "ShipPositionAtTimeOfIncident"		Correction ofIncident Report messages inconsistencies	Inconsistencies noted in the release note of SSN V2.07 to be corrected in the subsequent release.
96 105 114 121 200 205 252	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res Annex A	Misspelled element name "FailedNotificationtIncidentInformation" amended to "FailedNotificationIncidentInformation"			
105	MS2SSN_ IncidentDetail_Not	Misspelled incident type"FailedNotification" amended to "FailedNotification"			
93 97 111 196	MS2SSN_IncidentDetail_Not	Misspelled attribute"Email" to be amended in "EMail"			
227 231	Annex A	Correction in the attribute description of "FeedbackDistributionToFlagState" and "IRDistributionToFlagState"			
195 202	SSN2MS_IncidentReport_Res	Correction in the occurrence of element "ProvidedIncidentdetails" to optional			Alignement with the XSD 2.07
245	Status Code Annex A	Correction of the term 'registry' and 'reference registry' to 'database'	04-07-2012		As agreed at HLSG

137	MS2SSN_Ship_Res.xml	Correction in the "Bunker" element. Mandatory for ships of more 1000 gross tonnage.	25-11-2013	Change due to by Directive 2009/17/EU	

Changes from version 2.06 to version 2.07

Introduction Changes to the document from previous version 2.06 to this version 2.08 are outlined in the following table.

Summary of changes The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
26	Description of the "Send Notifications" process	Remove v1 Port and Hazmat Notifications	25-06-2012		Phase out of v1 Port and Hazmat Notifications
35	Description of the "Information Requests" process	Update text after removing v1 Port and Hazmat notifications			Phase out of v1 Port and Hazmat Notifications
38	Section 3.5 - Send IncidentDetail Notifications	Define new process			Improve the IR distribution
	MS2SSN_Port_Not	Removed			Phase out of v1 Port and Hazmat Notifications
	MS2SSN_Hazmat_Not	Removed			Phase out of v1 Port and Hazmat Notifications
28	Voyage correlation business Rules	Define the applicable business rules			Voyage consolidation process
90	Section 3.5 - Send IncidentDetail Notifications	Introduce the new IR Notification, Distribution and Acknowledgement messages			Improve the IR distribution
-	**MS2SSN_PortPlus_Not**	**CargoManifest**element **"When *HazmatOnBoardYorN* = "Y" the CargoManifest is mandatory."**		Removed business rule as no longer applicable.	Apply corrections and clarify business rules.

-	MS2SSN_Alert_Res	Corrected the occasion of elements and attributes			Correct the inconsistencies identified in the Alert response messages Annex A
194	Section 3.6 - Get Incident Report Notification Details	Introduce the new IR Request and response messages			Improve the IR distribution
-	Annex A	Resolve the annex listing the Alert response message inconsistencies.			Resolve Alert message definition inconsistencies.
216	Annex B renamed to A	Update list of attributes.			Improve the IR distribution and resolve Alert message definition inconsistencies.

Changes from version 2.05 to version 2.06

Introduction

Changes to the document from previous version 2.05 to this version 2.06 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
1	Cover	Text amended.	23-04-2010	To be consistent with XMLRG v2 onwards	Apply corrections.
258	Changes from previous versions	Section moved to the end of the document		Improve document layout	Annex the list of changes
8	Foreword	Update Legal Framework		To be consistent with XMLRG v2 onwards	Apply corrections.
10	SSN Global Architecture	Corrected illustration		2-way SSL and SOAP messages	Update implementation constraints

19	SafeSeaNet Functional Services Overview	Introduction of GI		Introduce the new interface for data visualization	Upgrade system functionality
23, 41, 57	Data Provider capabilities	Masking of Url		Enforcement of 2-way SSL when requesting for electronic documents.	Update implementation constraints
35,	Description of the “Information Requests” process	Clarifications on the Port and Hazmat requests		Clarify the contents of these requests	Apply business rule
-	Status Codes and Status Messages	Update the descriptionof the OK StatusCode		Provide a complete list of warnings	Update the list of warnings
-	All messages	Correct typo errors for attributes: Url, EMail		Align typos with the xsd	Apply correction
72	MS2SSN_PortPlus_Not	Add clarifications regarding: The use of NULL. UpdateNotifications; ShipCallId; NextPort; ETAToNextPort; PreArrival3DaysNotification Details. Updated the examples.		To enforce validation rules	Apply business rule
155	Table 1	Update rules #3, #4 and #6. Introduced new rule #13 “GetActiveHazmatForSelectedShip”		To enforce validation rules and define a new query	Apply business rule
176, 216	SSN2MS_ShipCall_Res	Add clarification regarding the Url value (relative to the masking of Url). Updated the examples		Introduction of the masking of Url	Update the content

Changes from version 2.04 to version 2.05

Introduction

Changes to the document from previous version 2.04 to this version 2.05 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
1	Cover	New text added.	23-04-2010	To be consistent with XMLRG v2 onwards	Apply corrections.
69	MS2SSN_Port_Not	Correction of attribute (TotalPersonsOnBoard) business rule		Clarify best practice rule on mandatory field "TotalPersonsOnBoard"	Apply business rule
88	MS2SSN_PortPlus_Not	Notification of dangerous and polluting goods carried onboard a ship leaving or bound for an EU port (HAZMAT)		Clarification of the introduction wording	Apply correction.
93, 94, 103	MS2SSN_PortPlus_Not	Attribute INFShipClass added (after HazmatOnBoardYorN)		New attribute added.	Attribute added, business rules and updated examples.
94	MS2SSN_PortPlus_Not	Corrected attribute's (UpdateStatus) description .		The example was misleading.	Apply corrections.
96	MS2SSN_PortPlus_Not	Text added.		Enforce business rule with reject criteria.	Apply changes.
97	MS2SSN_PortPlus_Not			To give more flexibility in managing subsidiary LOCODEs	
98	MS2SSN_PortPlus_Not	Updated ATAPortOfCall description		To enforce validation rule	Apply business rule
98	MS2SSN_PortPlus_Not	Updated ATDPortOfCall description		To enforce validation rule	Apply business rule
99	MS2SSN_PortPlus_Not	POBVoyageTowardsPortOfCall attribute's name corrected.		Correction of the attribute's name	Apply correction
186	MS2SSN_ShipCall_Req	Text changed Changed information expected to be included in the response message		Text changed Correct query's definition	Apply corrections.

187,188,189	MS2SSN_ShipCall_Req	Text changed Changed information expected to be included in the response message		Correct query's definition	Apply corrections.
191	MS2SSN_ShipCall_Req	LatestCallInfoAtSpecificPort query added.		New query added.	Apply correction.
194	SSN2MS_ShipCall_Req	New optional attribute (GetHazmatType) added		New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
195	SSN2MS_ShipCall_Req	New attribute business rules added.		Business rule for the new attribute added.	Business rule added.
197	MS2SSN_ShipCall_Res	New optional attribute (GetHazmatType) added		New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
199	MS2SSN_ShipCall_Res	New attribute business rules added.		Business rule for the new attribute added.	Business rule added.
195,197	MS2SSN_ShipCall_Res	Header attribute (TimeOutValue) removed.		Delete the attribute which was reported due to a typing error	Apply corrections.
202	SSN2MS_ShipCall_Res				
203 , 208	SSN2MS_ShipCall_Res	POBVoyageTowardsPortOfCall attribute’s name corrected.		Correction of the attribute's name	Apply correction
224	ANNEXB	Description and general rules for GetHazmatType added. MS2SSN_PortPlus_Not message added for INFShipClass attribute.		Annex B of XMLRG amended accordingly	Apply changes.

Changes from version 2.03 to version 2.04

Introduction

Changes to the document from previous version 2.03 to this version 2.04 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
91, 97	MS2SSN_PortPlus_Not	HazmatNotification InfononNonEUDepartures > CargoManifest Occ = 0-1. "When *HazmatOnBoardYorN* = "Y" the CargoManifest is mandatory."	03-06-2010	Corrected Occ. Add a business rule.	Apply corrections and clarify business rules.
91, 98	MS2SSN_PortPlus_Not	HazmatNotification InfononEUDepartures > CargoManifest Occ = 0-1 "When *HazmatOnBoardYorN* = "Y" the CargoManifest is mandatory."		Corrected Occ. Add a business rule.	

Changes from version 2.02 to version 2.03

Introduction

Changes to the document from previous version 2.02 to this version 2.03 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
10	SSN Global Architecture	Corrected illustration	11-11-2009	Corrected wrong terms	General: Improve readability and usage. Integration of MS comments
14	SafeSeaNet XML messages	Corrected reference to XML messages		Amended	
43	Conventions used in this chapter	Updated list of attributes' types		Deleted type "Choice"	
43	Conventions used in this chapter	Updated the list of occurrency values		Integrated the list with the new values used for PortPlus and Shipcall messages	
45	Conventions for naming the XML messages	Updated list of <SSN_Tx_Type>		Added ShipCall type	
	Status Codes and Status Messages	Updated attribute description		Added the clarification "This value may only be used by SSN-EIS in an XML response message"	
55	SafeSeaNet Roles	Text is updated		Updated description of "List of supported roles"	
72	MS2SSN_PortPlus_Not.xml (message)	Correction of attribute's occurency		Inserted occurency value for "ContactDetails"attribute which was formerly missing	
166	Get Shipcall notification(s) details	Corrected title		Corrected title	
166	Table 1 – 2nd column	Corrected XML message name		Corrected message's name	
166	Table 1	Corrected query 9 description – Added queries #10 and #11		Amendment	
166	MS2SSN_ShipCall_Res.xml (overview)	Correction of parental elements' position	11-11-2009	Corrected position of "SearchCriteria" and "ShipIdentificationCriteria" elements	
176\	MS2SSN_ShipCall_Res.xml (message)	Correction of elements' descriptions		Corrected descriptions of "ProvidedResponseCriteria" and "ShipCallResp" elements	
176\	SSN2MS_ShipCall_Res.xml (overview)	Correction of attribute's position		Corrected position of attribute "GetDetails" which was missing	

176\	SSN2MS_ShipCall_Res.xml (overview)	Correction of attributes occurrency value		Corrected occurrency values of “ATAPortOfCall” and “Anchorage” attributes	
176\	SSN2MS_ShipCall_Res.xml (message)	Correction of element’s description		Corrected description of “ShipCallResp” element	
216	Annex B XML attributes definitions	Amended description of GetDetails attribute		Amendmend	
216	Annex B XML attributes definitions	Updated		Removed type “Choice”	
-	All sections	Correction of examples		Updated/corrected references used into examples	
		Amendment of the name of elements and attributes		Harmonised elements and attributes naming	
		Updated all examples			

Changes from version 1.65 to version 2.02

Introduction

Changes to the document from previous version 1.65 to this version 2.02 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
72	MS2SSN_PortPlus_Not	Introducing the PortPlus notification message	-	Reflect the forthcoming implementation of the "PortPlus" message. Improve readability and usage.	SSN WGT/01/05
166	Send ShipCall Notification Details requests	Introducing the ShipCall request messages	-		SSN 11/3/6 (v.1.2)
216	Annex B	Contains the definition of all attributes that appear in the SSN XML messages.	-		SSN WGT/02/03 (v.1.0)
-	All sections	General change. Modified the structure of the document to introduce for each message section: - an overview: it lists the attributes and elements with their occurrences (mandatory or non-mandatory) - a rules part: it describes the specific rules applicable to each attribute. The elements and attributes already defined will just be named and provide a common definitions table in Annex A which lists the attributes and their technical definition. Define the MS2SSN_PortPlus_Not.xml message and MS2SSN_ShipCall_Res.xml message.	07/05/2009		SSN WGT/02/03 (v.1.0)

Changes from version 1.64 to version 1.65

Introduction

Changes to the document from previous version 1.64 to this version 1.65 are outlined in the following table. Changes include the decisions made during the Data Quality Working Group (DQWG) meeting that took place on the 9th& 10th of April 2008.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
10	SafeSeaNet global Architecture	Amend the SSN global architecture figure. Update the SSN Services and data flows.	19/02/2008	Revise and align the global architecture to SSN v1.9.	Align to SSN v1.9.
8	Legal Framework	Change the reference from the IDA to the IDABC infrastructure.	19/02/2008	Both IDABC program and commercial certification authorities are used.	Adoption of the IDABC program.
20	Services description	Include a short description of the SSN Services.	19/02/2008	Clarify the primary use of the services provided.	Align to SSN v1.9.
-	Chapter 3	Modify erroneous XML message examples.	19/02/2008	Correct XML message examples based on the SSN v1.9 adjustments.	Apply corrections
17	New Data Quality Guidelines section. Chapter 3 under each individual XML message definition.	Include the Data Quality Guidelines.	19/02/2008	Introduce the general Data Quality guidelines and the rules to be enforced per XML message element/atribute.	Introducing the Data Quality guidelines
54	Test vessels	Define the test vessels used in SSN v1.9.	19/02/2008	Allow two test vessels in SSN to be used also in the Production environment to enable testing the interface by the MS.	Align to SSN v1.9.
66	MS2SSN_Ship_Not.xml message	Ssn.xsd update: Remove element Bunker .	26/05/2008	Align ssn.xsd with the XML messaging reference guide.	Contact Sheet - 0196

138	MS2SSN_Ship_Res.xml message	The occusion of item MRSCargoInformation > DGDetails is set to 0-∞. The occusion of element AISCargoInformation is set to 0-1. The occusion of attribute AISCargoInformation >HazardousCargoType is set to 1.	26/05/2008	Correct the optionality of the element that contains 1 optional attribute.	Contact Sheet - 0196
-	MS2SSN_Hazmat_Res.xml message	The occusion of element Cargo Information>DPG is set to 1- ∞. The occusion of elements Cargo Information>DPG>PlacementOfGoods and PlacementOfGoodsInContainer is set to 0-∞. Ssn.xsd update: set the occusion of element NotificationDetails > VesselIdentification to 1.	26/05/2008	Align ssn.xsd with the XML messaging reference guide.	Contact Sheet - 0196
-	SSN2MS_Alert_Res.xml message	Update the definition of the message. Remove Last name, First name. Add Maritime Authority name. Ssn.xsd update: Element SSN2MS_Alert_Res.xml > Body > ContactIdentification is updated from ssn:ContactDetailsType to ssn:ContactIdentificationType with attributes: -LoCode -Phone -FAX -Email -MaritimeAuthority	26/05/2008	Align the definition of the SSN2MS_Alert_Res message contents with the contents of the MS2SSN_Alert_Not message.	Contact Sheet - 0196
-	Annex A	The list of inconsistencies is updated to remove those processed in version 1.65 of this document.	19/09/2008	Process inconsistencies to be corrected in SSN v1.9.1.	Contact Sheet - 0196

Changes from version 1.63 to version 1.64

Introduction

Changes to the document from previous version 1.63 to this version 1.64 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
[XMRG Version 1.64 – XSD 1.64]					
282	Changes from version to version	Modify the XML Reference Guide traceability format.	03/08/2007	Clearly indicate the changes from one version to another.	Workshop #7
53	Vessel Identification	Define the vessel identification attributes format.	19/01/2007	The vessel identification validation rules are missing.	Contact Sheet-0148
58	SSN_Receipt XML message	Update the goal of the SSN_Receipt.xml message receipt	14/02/2007	Clarify the use of the SSN_Receipt message based on the SSN v1.9 developments	Contact Sheet-0149
140	SSN2MS_Ship_Res.xml message	Define the use of the SentAt and From attributes.	03/08/2007	Add NotificationDetails items Sent_At and From.	ContactSheet-0132
-	XML messages related to NextPortofCall	Introduce the exception location codes ZZUKN and ZZCAN.	25/10/2005	Change UKNWN to ZZNUKN and CANCEL to ZZNCAN	Workshop #4
-	XML messages related to contact details	Phone and Fax number are restricted to only numbers and “+”	12/06/2007	Change the description of the Phone and Fax fields	SSN v1.9 Specifications
-	XML messages related to download information	Url has a maximum length of 256.	12/04/2005	Change the URL field length to 256	Contact Sheet-061
70, 117	Security messages	Note on Security messages	-	Add a note to the security messages.	Decision taken from the MARSEC Committee
159	Annex A	List the most significant and urgent inconsistencies between the XMLRG and the XSD.	24/10/2007	Add the list of inconsistencies in Annex A.	Workshop #8

Changes from version 1.62 to version 1.63

Introduction

Changes to the document from previous version 1.62 to this version 1.63 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
[XMRG Version 1.63 – XSD 1.6]					
30	Description of the "Information Requests" process	Specify the use of SSN_Receipt message in case of invalid MS2SSN_<type>_Req.	01/06/2006	Clarify the XML schema validation and processing of messages transmitted in SSN.	Helpdesk service calls SSN-111 (Ireland) & SSN-145 (Norway).
40	Validation of the XML messages	Specify the contents of SSN_Receipt Invalid message.			
47	SSN_Receipt XML message	▪ Specify the use of SSN_Receipt message in case of invalid MS2SSN_<type>_Req. ▪ Update figure "When to send this message?"			
88	MS2SSN_Ship_Res.xml message	Set the occurance (Occ) of TotalPersonsOnBoard to 0-1.	01/06/2006	The TotalPersonsOnBoard is not transmitted by the AIS ship device.	Helpdesk service call SSN-84 (Poland).
91, 92	MS2SSN_Ship_Res.xml message	Examples were updated.	12/10/2005	False samples were corrected.	Helpdesk service call SSN-28 (Poland).
95	SSN2MS_Ship_Res.xml message	Add NextPortOfCall, ETA and TotalPersonsOnBoard in the VoyeageInformation part.	04/11/2005	Complete the missing attributes of the *VoyageInformation* element node.	Helpdesk service call SSN-24 (France).
112	SSN2MS_Hazmat_Res.xml message	▪ The occurance (Occ) of ETA and ETD is set to 0-1. ▪ Clarify the meaning of ETD.	25-26/10/2005	Correct the description of the "ETD" attribute.	Workshop #4. SSN 4/3/11

128, 129	MS2SSN_Alert_Req.xml message	The description of SentAt, From, IMONumber and MMSINumber in SearchCriteria part was updated to show that at least one of them should exist.	04/11/2005	Clarify the Occ of the Search Criteria to avoid false processing when no attriobute is defined.	Helpdesk service call SSN-23 (France).
152	SSN2MS_Alert_Res.xml message	Set the occurance (Occ) of the Body > SearchCriteria From and SentAt to 0-1.			
-	All XML messages	The length of From and To items is set to 3-15.	15/11/2005	Extend the maximum size of the user id from 8 to 15.	Helpdesk service call SSN-83 (Ireland).

Changes from version 1.60 to version 1.62

Introduction

Changes to the document from previous version 1.60 to this version 1.62 are outlined in the following table.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes
[XMRG Version 1.62 – XSD 1.6]		
-	Receipt XML message and Get Details XML messages	▪ SSNRefId attribute hasn't a fixed length
-	XML messages related to download information	▪ Url has a maximum length of 80 positions.
87	AISVoyageInformation structure	▪ Added TotalPersonsOnBoard (as already defined in XML Schema)
94	VoyageInformation structure	▪ Corrected VoyageInformation structure to correspond to XML Schema
122	SSN2MS_Security_Res XML message	▪ Rename NotificationDetails element to NotificationsDetails

Changes from version 1.40 to version 1.60

Introduction

Changes (insertions and deletions) to the document from previous version 1.40 to this version 1.51 are outlined in the following table. Changes are marked with a red outside border and are in red color.

Summary of changes

The following table sums up the changes brought to the document:

Page	Map / Block text	Description of the changes
[XMRG Version 1.50 – XSD 1.5]		
35	XML Structure and Schema Definition	The namespace of the SafeSeaNet XML schema is *urn:eu.emsa.ssn* and must be specified as *xmlns* attribute value of the root element of every XML message.
-	All XML messages	▪ Add *xmlns=”urn:eu.emsa.ssn”* attribute to every root element of every XML instance (as *urn:eu.emsa.ssn* is the target namespace of SafeSeaNet). ▪ Version value is now ‘1.5’, as the current version of the XML specifications.
[XMRG Version 1.60 – XSD 1.6]		
36		Clarification on From and To attribute in the xml header
43		Completed list of roles with ADM and EMSA
	All Receipt messages and xml header messages	Update status message description in that its contents are dynamic and could contain NCA contact information.
	All XML messages	Update doc types and supported extensions when providing the url details block.
	All Request and Response messages	Update on Vessel identification block where occurrence of attributes IMO number and MMSI number have changed.
80	MS2SSN_Ship_Res	Change structure of MRSNotifDetails block and AISNotifDetails block
89-91	SSN2MS_Ship_Res	Change structure ShipNotificationDetails block by adding a VoyageInformation block
	All XML messages	Version value is now 1.6, as the current version of the XML specification.
	All XML messages	New xml message examples have been provided.