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SafeSeaNet

XML Messaging Reference Guide

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Reference document of the IFCD defined in Annex III, paragraph 2.3 of Directive 2002/59/EC as amended by Directive 2009/17/EC establishing a community vessel traffic monitoring and Information system

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2.08	11-12-2013	EMSA	<p>Change element 'CargoManifest' to optional in ShipCall response.</p> <p>Change element 'ETA' to optional in ship AIS notification and response.</p> <p>Change description in "Bunker" element to mandatory for ships of more 1000 gross tonnage</p> <p>Corrections on Incident Report messages.</p>
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Changes from previous versions

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

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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:

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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).

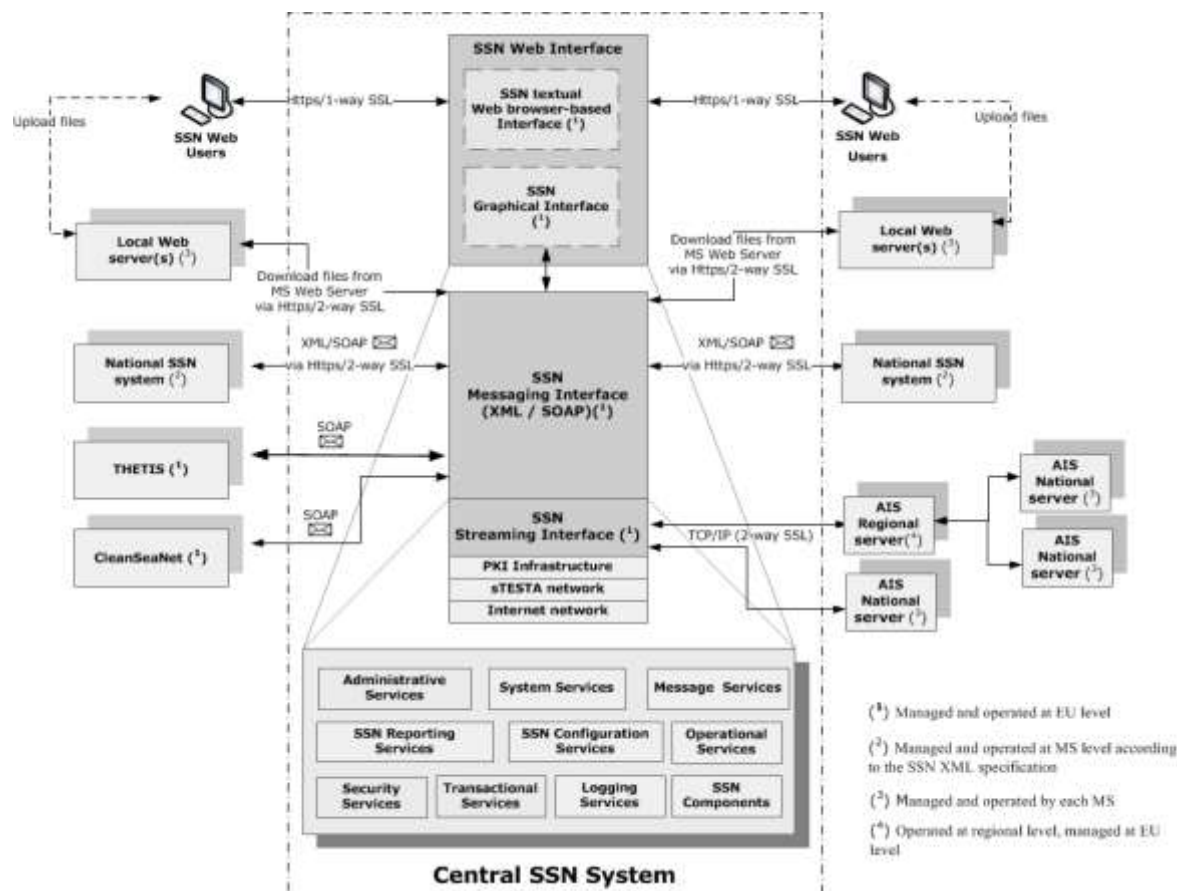
The system is using

- 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 18 for more details about the functional services provided by the different interfaces (browser-based and XML interfaces).



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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 HTTPS request/response if they implement the SafeSeaNet XML or SOAP interfaces 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 will be 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,...)
 - 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 Member 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 systems 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 merely 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, timeout,...). 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 XML/SOAP messages and upon receiving XML/SOAP 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 system and the central SafeSeaNet system must provide a **single** address (url) for sending **and** receiving XML messages. The single SafeSeaNet address must be used by the national SSN system to send XML messages (requests and responses) to the central SafeSeaNet system. The single address provided by every national SSN system will 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 an actor requests information, the holder of 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-holding site (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
<ul style="list-style-type: none">▪ The flow of messages (requests and responses),▪ The structures of each of these XML messages	This guide
<ul style="list-style-type: none">▪ The Networking aspects▪ The Security aspects	“SafeSeaNet Security Guidelines”

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 to Directive 2002/59/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 Documents¹).

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 Documents²).

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 SSN system 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
- An XML or a SOAP-based web services based messages 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.
-

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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:

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Definition of a *Data Provider*

Introduction

In SafeSeaNet, a *Data Provider* is a Member State holding some information about vessels and incidents, and 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. At present, the SOAP header is not used.

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 State holds some kind of information about a vessel or about an incident.

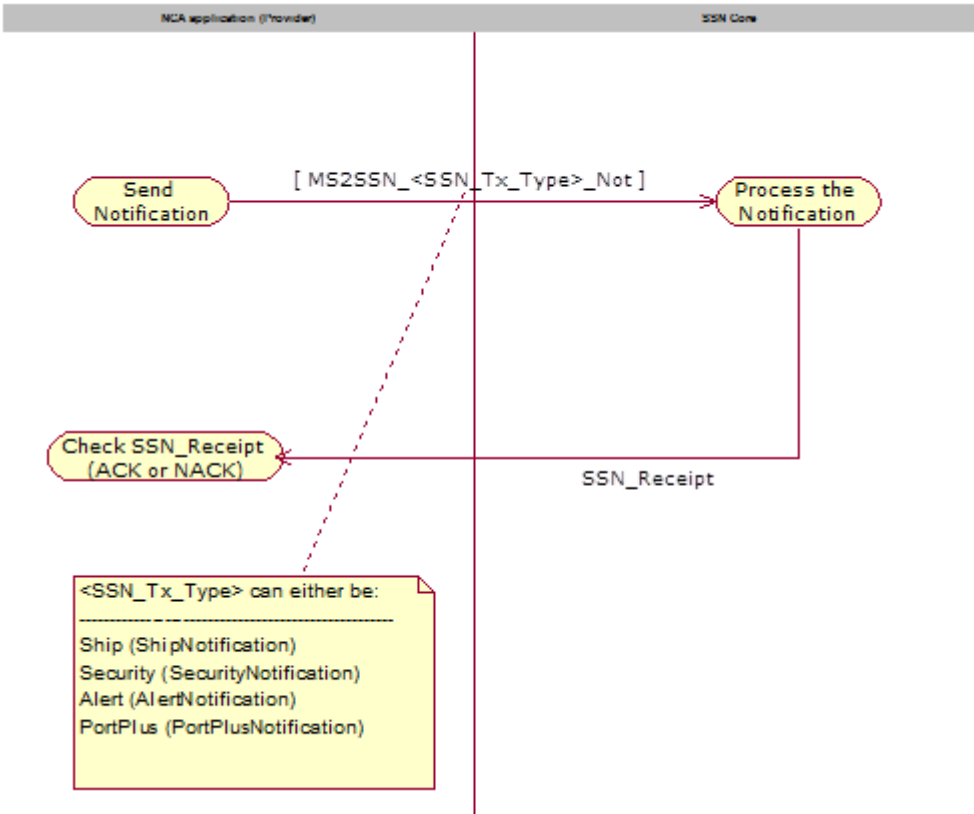
Notification Types Notifications can be of 6 different types:

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.
Alert	Used to notify SafeSeaNet that the sender holds some information about specific incidents like SITREP, POLREP, Waste, lost/found containers. An alert can be linked or not to a particular vessel.
PortPlus	Used to notify SafeSeaNet in cases of: <ul style="list-style-type: none">▪ 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 bound for an EU port, either when coming from a non-EU or 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.

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 <i>MS2SSN_<SSN_Tx_Type>_Not</i> XML message corresponding to the type of the notification and sends it to SafeSeaNet.
2	SafeSeaNet logs and validates the notification message. <ul style="list-style-type: none"> ▪ If valid, it stores the notification information in its index database, and sends back the <i>SSN_Receipt</i> 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 <i>SSN_Receipt</i> 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:	<ol style="list-style-type: none"> 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 a 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
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	<p>notifications, the ETD) provided by the departing port:</p> <ul style="list-style-type: none"> • 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. <p>6. Active Hazmat (Non EU Departure): A Hazmat Non EU departure is considered “active” for a period:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> ○ [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)]
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This process implemented at SSN allows the correlation of PortPlus notifications referring to the same ship call to be consolidated in one voyage based on a set of matching notification processes. While PortPlus notification data send by the same data provider for a given vessel and a PortOfCall will be integrated based on the ShipCallId reported, PortPlus notifications sent from different providers concerning the same ship call need also be integrated with the scope to correlate the Hazmat information to the correct voyage of the vessel to EU and Non-Eu Ports.

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 specifically the 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.	<p>Caution is taken for the case of change of destination.</p> <p>Fetch the voyage with the same ShipCallID and cancel it.</p> <p>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.</p> <p>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.</p>
An update of a PortPlus message reporting Hazmat EU departure where the data provider changed the HazmatYesNo attribute value from “Yes” to No.	<p>Retrieve the voyage with the Hazmat ShipCallID pointing to the notification that included the changed HazmatYesNo attribute change and update the voyage.</p> <p>A Hazmat EU notification previously sent with a PortPlus message is ignored.</p> <p>Should for the voyage to the NextPort a PortPlus from the Port of arrival has been received, the voyage cannot be cancelled.</p>

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	<p>A. The ATD/ETD from last Port is in the “past” with respect to the query timestamp in UTC, and</p> <p>B. the [ETAPortofCall+[a configurable parameter, e.g. 2 hours] is in the future with respect to query timestamp in UTC</p> <p>C. there is no ATA known for the voyage.</p> <p>Should at SYSDATETIME of the voyage status check more than one voyages in the database are meeting the above mentioned conditions, the “on-going” voyage is the one with “closest” ETA “in the future” with respect to the last reported ATD/ETD from last Port.</p>
At port	<p>A. The ATD/ETD from last Port is in the “past” with respect to the query timestamp in UTC , and</p> <p>B. The ATA is available for the voyage, and</p> <p>There is no ATD known from the PortOfCall.</p>
Closed	<p>A. The ATD/ETD from last Port is in the “past” with respect to the query timestamp in UTC. and</p> <p>The ATD is available from the PortOfCall.</p>
“Unknown”	<p>Case 1:</p> <p>A. The ATD/ETD from last Port is in the “past” with respect to the query timestamp in UTC, and</p> <p>B. There is no ATA for the voyage, and</p> <p>C. The [ETAPortofCall+[a configurable parameter, e.g. 2 hours]] is <u>in the past</u> with respect to query timestamp in UTC.</p> <p>Case 2:</p> <p>Voyages that provide ETDLastPort and ETAPortOfCall that are</p>

	both beyond the WVD [a configurable parameter, e.g. 30 days] and there is no ShipCallID recorded for the voyage at the timestamp of the query.
Future (known) voyage	Any voyage that ETDLastPort declared in the notification and set in a future time with respect to the timestamp of the query and with an ETAPortOfCall also in the future. The ETDLastPort should not be dummy (that is it must be within the limit constraint by the WVD [a configurable parameter, e.g. 30 days]).
Planned	Any voyage for which the ShipCallID is known and ETDLastPort declared in the notification is set in a future time with respect the timestamp of the query and with an ETAPortOfCall also in the future. In this case both ETDLastPort and ETAPortOfCall are provided and are both beyond the WVD [a configurable parameter, e.g. 30 days].
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	<p>The correlation process considers the following operational data:</p> <ul style="list-style-type: none"> • 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	<p>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:</p> <ul style="list-style-type: none"> • 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	<p>If:</p> <ul style="list-style-type: none"> • notifications sent by the departure port concerning EU departures

	<p>quote as prospective port of call a known destination, and</p> <ul style="list-style-type: none"> the Hazmat declaration associated to the notification becomes active, <p>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:</p> <ol style="list-style-type: none"> Identifies as last port, the port that provided the Hazmat EU departure notification or, Does not include any information on last port. <p>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.</p>
7	<p>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 hours without 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.</p> <ol style="list-style-type: none"> SSN will never attempt to correlate a Hazmat EU departure to a ShipCall that reports an arrival with Hazmat from a Non-EU Port. If for a ship the following exist in the system: <ol style="list-style-type: none"> A Hazmat EU departure destination towards non EU country 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: <ul style="list-style-type: none"> 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] If for a ship exists the following co-exist in the system:

	<p>a) A Hazmat EU departure destination towards non EU country where the ETA to destination (ETA1) is provided and is not dummy</p> <p>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</p> <p>c) There is a logical relationship between ETA1 and ETD1 (ETA1<ETD1)</p> <p>Then the active period for the Hazmat EU departure notification and Hazmat non EU departure notification will be set as follows.</p> <p>iv. Active period Hazmat EU departure notification : From ATD (or in case of ATA absence the ETD) from port of departure to ETA1</p> <p>v. Active period Hazmat non EU departure notification : From ETD1 to ATA (in case of absence ETA+2hours) to destination</p> <p>vi. If for a ship exists the following co-exist in the system:</p> <p>a) An “active” Hazmat EU departure declaration with ZZUKN quoted as destination</p> <p>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)</p> <p>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).</p>
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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.
2.	As mentioned in business rule No 4 above, the data correlation concerns ship call information for the same voyage provided by different providers. Should the data provider of the notification provided by the departing port is the same with the provider of the notification of the arrival port, SSN central system does not attempt to correlate the information provided. Consequently in such cases the data concerning domestic voyages are not correlated.

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 6 different types:

Type	Description
Ship	Used to get detailed information about a given ship notification. Upon receiving such request, SafeSeaNet will ask the actual <i>data provider</i> to send him the detailed information. SafeSeaNet will then send it back to the <i>data requester</i> .
Alert	Used to get detailed information about a given Alert notification. Upon receiving such request, SafeSeaNet will ask the actual <i>data provider</i> to send him the detailed information. SafeSeaNet will then send it back to the <i>data requester</i> .

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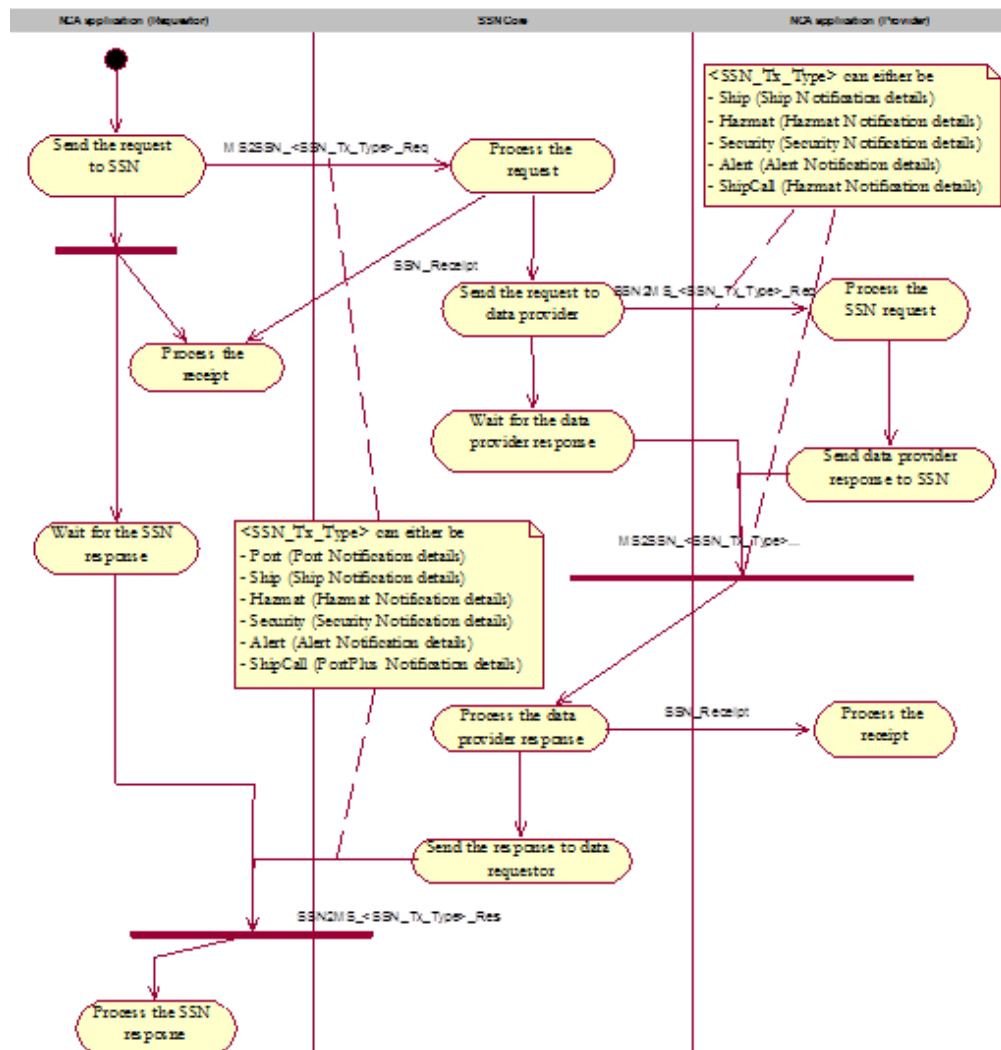
Description of the “Information Requests” process, Continued

Type	Description
ShipCall	<p>Used to get details from PortPlus notifications regarding a ship or calls in a port.</p> <p>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...).</p> <p>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 calls. Detailed information can only be requested of a unique ship calls (not provided for list of ship calls).</p>

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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	<p>The national SSN system (<i>data requester</i>) prepares the MS2SSN_<SSN_Tx_Type>_Req XML message corresponding to the type of the information request and sends it to SafeSeaNet.</p> <ul style="list-style-type: none"> Contrary to the notification principle, the communication is now asynchronous. Therefore, upon receiving the 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	<p>SafeSeaNet logs and validates the received MS2SSN_<SSN_Tx_Type>_Req XML message.</p> <ul style="list-style-type: none"> 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 <i>data provider</i> is able to talk XML with SafeSeaNet (see above for more details about <i>data provider</i> 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 <i>data provider</i>. If any problem during the processing of the <i>data requester</i> request, it sends back to the <i>data requester</i> 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	<p>The national SSN system (<i>data provider</i>) should log and validate the received SSN2MS_<SSN_Tx_Type>_Req XML message.</p> <ul style="list-style-type: none"> 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	<p>SafeSeaNet logs and validates the received MS2SSN_<SSN_Tx_Type>_Res XML message and sends SSN_Receipt XML message back as confirmation (synchronous connection). It then prepares and sends back to the <i>data requester</i> the SSN2MS_<SSN_Tx_Type>_Res XML message with the requested detailed information asynchronously.</p>
5	<p>The national SSN system (<i>data requester</i>) should log and validate the received SSN2MS_<SSN_Tx_Type>_Res XML message and process it</p>

XML messages

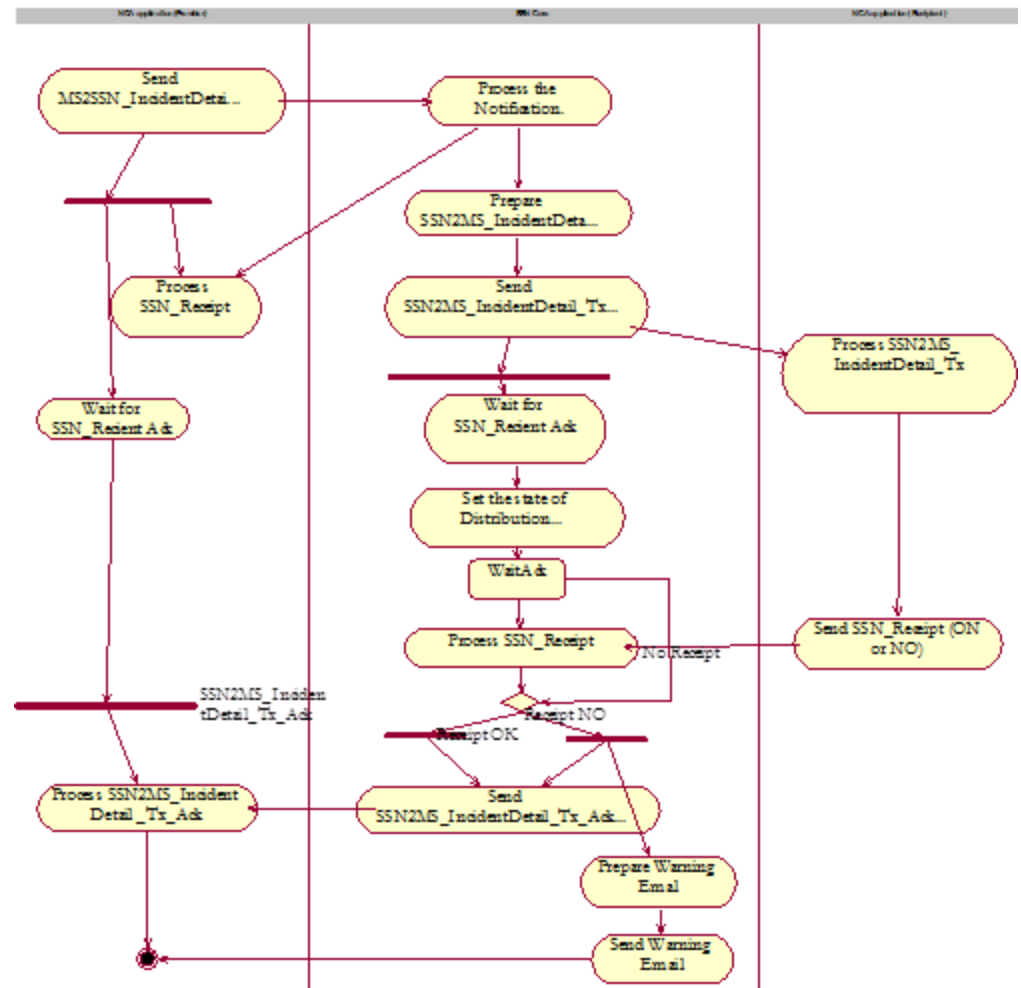
For more details about the XML messages used by this process, see “Chapter 3 - SafeSeaNet XML Messages” at page 41.

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	<p>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.</p> <p>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.</p>
2	<p>SafeSeaNet logs and validates the notification message.</p> <ul style="list-style-type: none"> ▪ 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	<p>For each recipient MS:</p> <ul style="list-style-type: none"> ▪ 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. <p>The possibility to receive both XML and emails is also envisaged.</p>
4	<p>Each recipient MS which has received the SSN2MS_IncidentDetail_Tx XML notification message sends back to SafeSeaNet the SSN_ReceiptXML notification message (synchronous connection).</p>

Continued on next page

Description of the “Incident Report Distribution” process, Continued

5	<p>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.</p> <p>The distribution is considered as having failed if:</p> <ul style="list-style-type: none">▪ In the case of XML distribution:<ul style="list-style-type: none">○ The <i>SSN_Receipt</i> notification sent by the recipient MS contains a negative status code,○ No <i>SSN_Receipt</i> notification is received from the recipient MS after 3 attempts of distribution of the <i>SSN2MS_IncidentDetail_Tx</i> notification,▪ In the case of e-mail distribution:<ul style="list-style-type: none">○ A non-delivery notification is received from the mail server(s) of the recipient MS,○ 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	<p>SafeSeaNet sends a consolidated <i>SSN2MS_IncidentDetail_Tx_Ack</i> XML notification message to the Data Provider, indicating the consolidated status of the distribution.</p>

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 18). 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 Alert 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 Alert Notification Details
 - Get PortPlus Notification Details
 - Get Incident Report Notification 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:

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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:

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XML Structure and Schema Definition (XSD)	47
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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
<code><Direction></code>	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.
<code><SSN_Tx_Type></code>		
	Ship	Ship Notification, Request and response messages
	Alert	Alert 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
<code><MsgType></code>	Not	The message consists of a notification
	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)
- 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)
- 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) the following XML messages:

- SSN2MS_<SSN_Tx_Type>_Tx (receive distributed IncidentDetail from SSN)
 - SSN2MS_<SSN_Tx_Type>_Tx_Ack (receive consolidated receipt from SSN 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 <i>Header</i> 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 <i>Body</i> 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 <i>Body</i> node is omitted in case of <ol style="list-style-type: none">1. The <i>SSN_Receipt</i> 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. **So once again, do not use the location code in your *From* attribute but use the UserId instead.**

The *From* attribute of an XML request is used to determine the recipient of the corresponding XML response. If the *From* attribute contains the UserId we can easily map it to the corresponding DataRequester url.

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" standalone="yes" ?>
- <SSN_Receipt xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="Invalid location" StatusCode="InvalidFormat" SSNRefId="N/A" MSRefId="NOT-54-TEST-01" Version="2.0" To="NCATEST1" SentAt="2008-02-26T11:26:25Z" From="SSN" />
</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" standalone="yes" ?>
- <SSN_Receipt xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="The message doesn't comply to the XML specification."
    StatusCode="InvalidFormat" SSNRefId="N/A" MSRefId="N/A" Version="2.0" To="N/A" TestId="N/A"
    SentAt="2008-02-26T11:31:25Z" From="SSN" />
</SSN_Receipt>
```

ID Correlation between the XML messages in a transaction

Header Attributes

Knowing that the exchange of the XML messages between the national SSN systems and SafeSeaNet is 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 sent 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.

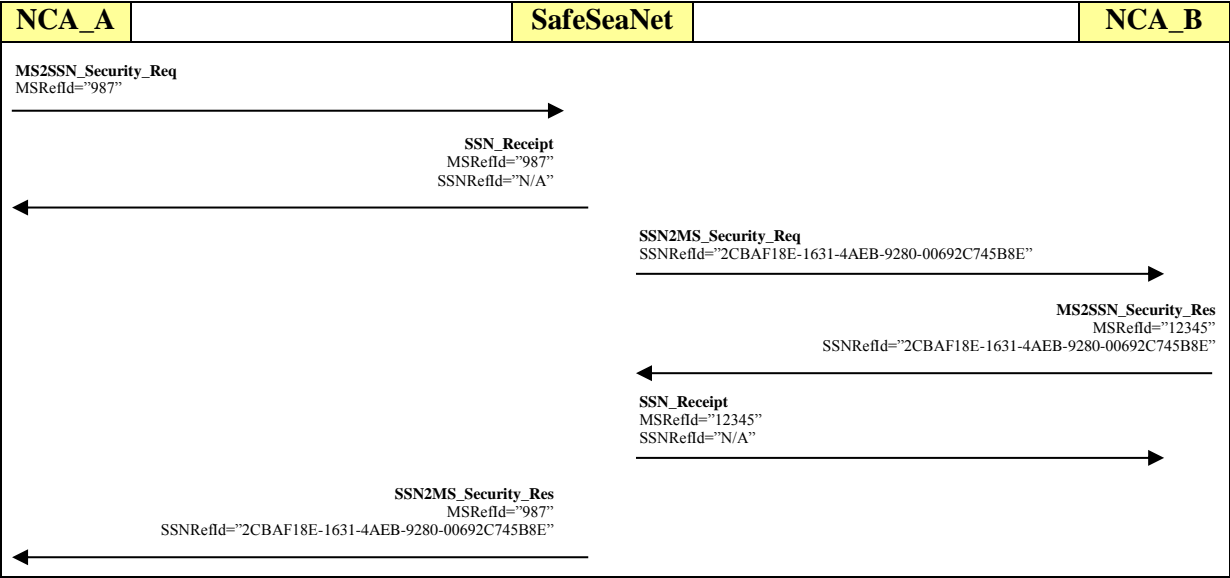
This transaction identifier is specified by a national SSN system in the *MSRefId* attribute of every XML message dealing with the current transaction it sent to the central SafeSeaNet application.

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 sent 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 (Interface Control Document, Table 5, page 41)

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)
NLR TM	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 22), 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="ncaplgy1">
      <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="PD94bWwgdmVyc2lvbjoiMS4wIiBlbmNvZGl290KDQo=" />
    </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 page 174). 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 UriDetails > Uri 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 Uri (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;
 - o response.setHeader("SsnStatus", "NotAvailable"): the document is not available;
 - o response.setHeader("SsnStatus", "NotFound"): the msRefId does not exist;
 - o response.setHeader("SsnStatus", "AccessDenied"): the data requestor is not allowed to retrieve the document.

Section 3.3 - SSN_Receipt XML message

Overview

Introduction

The goal of the **SSN_Receipt.xml** message receipt is twofold:

- 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 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 as the confirmation message (indicating whether the response message is compliant to the corresponding XSD, or not) to every response message (MS2SSN_<SSN_Tx_Type>_Res or SSN2MS_<SSN_Tx_Type>_Res).
- It must be sent as the confirmation message (indicating whether the Incident Report distributed message is compliant to the corresponding XSD, or not) as an acknowledgement 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 <i>TimeoutValue</i> 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	<p>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).</p> <p>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 <i>StatusMessage</i>: <i>"Warning: The original PortPlus notification must be send"</i>.</p> <p>When a notification has been sent for a banned vessel a warning is appended in the <i>StatusMessage</i>: <i>"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"</i>.</p> <p>When a notification has been sent for a single hull tanker a warning is appended in the <i>StatusMessage</i>: <i>"Warning: The reported vessel is Single Hull Tanker"</i>.</p> <p>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 <i>StatusMessage</i>: <i>"Warning: the vessel identification elements in SSN Ship Database are IMONumber:[], MMSINumber:[], CallSign, ShipName:"</i>.</p> <p>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 <i>StatusMessage</i>: <i>"Warning: The MID digits included in the reported MMSI refer to a different country from the one reported with the flag attribute"</i>.</p> <p>When a notification has been sent and the reported LoCode although technically correct is not registered in UNECE a warning is appended in the <i>StatusMessage</i>: <i>"Warning: The location code [XYYYY] is not registered in UNECE"</i>.</p> <p>When a notification has been sent with ATA or ATD in the future (ATA or ATD > SentAt + 3h), a warning is appended in the <i>StatusMessage</i>: <i>"Warning: ATA or ATD > SentAt + 3h. The notification will not be considered by THETIS"</i>.</p>

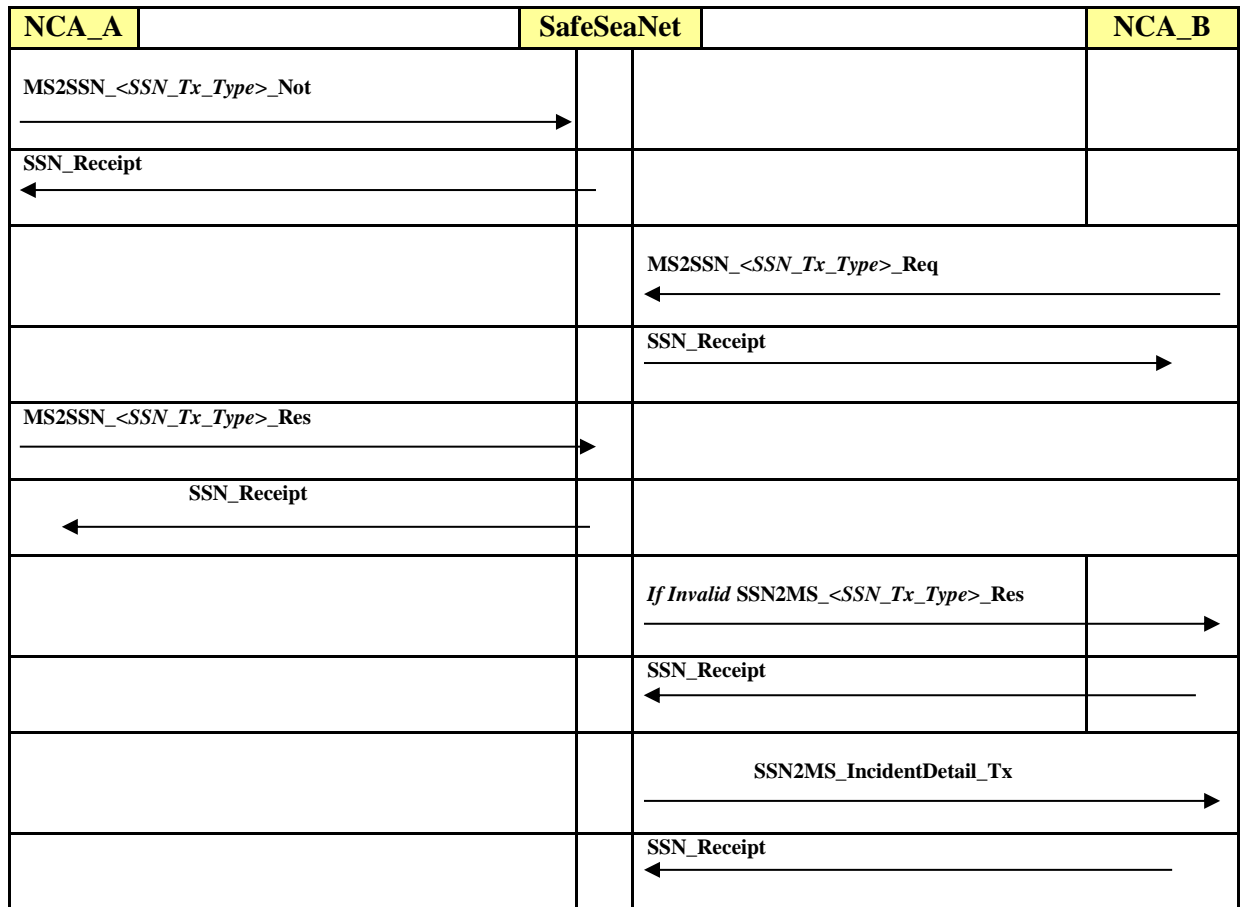
Attribute value	Description
	When a notification has been sent where the Locode of Port of Call does not exist in THETIS, a warning message is appended in the StatusMessage: <i>“Warning: Locode of Port of Call is unknown to THETIS. The notification will not be considered by THETIS”.</i>
NotFound	The 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. <i>Attribute value not available for MS2SSN_messages</i>
NotAvailable	The data provider system is temporarily unavailable (e.g. due to planned and announced maintenance). <i>Attribute value not available for MS2SSN_messages</i>
AccessDenied	The user (identified via the <i>From</i> attribute of the <i>Header</i> 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

```
- <SSN_Receipt xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="The message processed successfully." StatusCode="OK" SSNRefId="59518"
    MSRefId="PORT-NOT-Test-01AB35" Version="2.0" To="NCATEST1" SentAt="2008-04-10T15:35:18Z"
    From="SSN" />
</SSN_Receipt>
```

Example of receipt with InvalidFormat error

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN_Receipt xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="Invalid location" StatusCode="InvalidFormat" SSNRefId="N/A" MSRefId="NOT-54-
    TEST-01" Version="2.0" To="NCATEST1" SentAt="2008-02-26T11:26:25Z" From="SSN" />
</SSN_Receipt>
```

Invalid notification, request or response

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

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN_Receipt xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="The message doesn't comply to the XML specification."
    StatusCode="InvalidFormat" SSNRefId="N/A" MSRefId="N/A" Version="2.0" To="N/A" TestId="N/A"
    SentAt="2008-02-26T11:31:25Z" From="SSN" />
</SSN_Receipt>
```

Section 3.4 - Send Notifications

Overview

Introduction

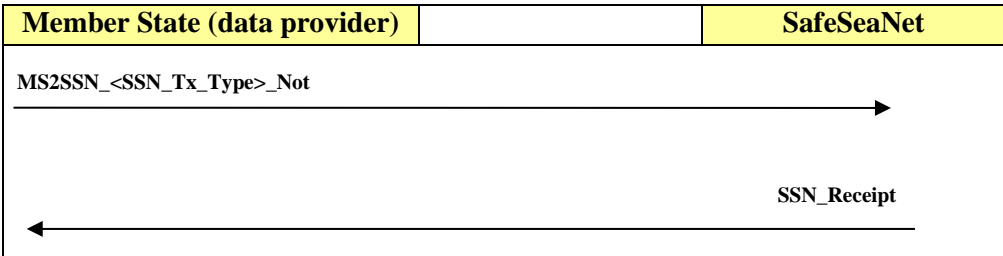
This section describes the different XML messages that must be used by a Member State (acting as *Data Provider*) to notify SafeSeaNet that the Member State holds some kind of information. Such XML messages include the Notifications of type:

- Ship
- Alert
- 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.



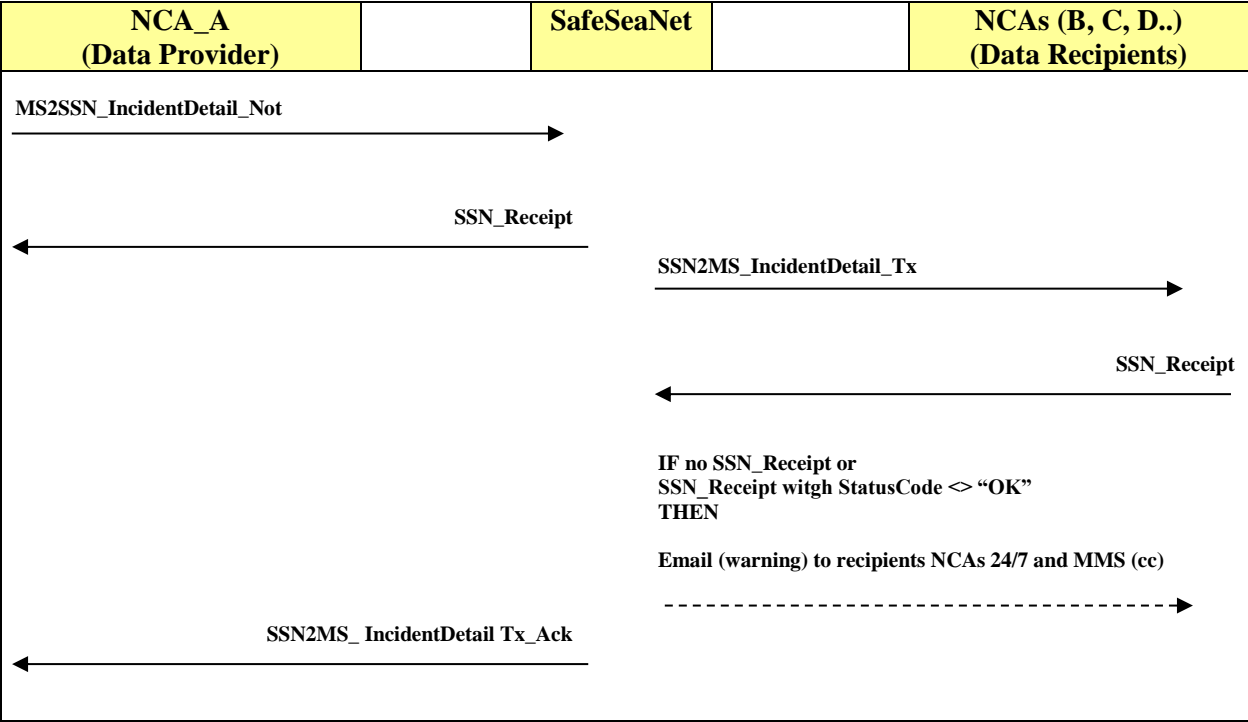
The different types of notifications (<SSN_Tx_Type>) are:

- Ship
- Alert
- PortPlus
- Exemption
-

Continued on next page

Flow of the IncidentDetail XML messages

The following figure outlines the expected **asynchronous** flow 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:

Topic	See Page
MS2SSN_Ship_Not.xml message	66
MS2SSN_Alert_Not.xml message	72
MS2SSN_PortPlus_Not.xml message	75
MS2SSN_Exemption_Not.xml message	86

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 126 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 1 for 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	
<i>AISNotification</i>	0-1	<i>AISNotification</i> element node. Not allowed if <i>MRSNotification</i> specified
...		▪
<i>MRSNotification</i>	0-1	<i>MRSNotification</i> element node. Not allowed if <i>AISNotification</i> 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 132) and not as a document on a web server.

MS2SSN_Ship_Not - Item	Occ	Description
<i>AISNotification</i>	0-1	Not allowed if <i>MRSNotification</i> specified
<i>VesselIdentification</i>	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 <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	
ShipName	0-1	

MS2SSN_Ship_Not - Item	Occ	Description
<i>VoyageInformation</i>	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 systems should convert the AIS date format (MMDDHHMM) into the ISO format. As an example it could be done the following way: <ul style="list-style-type: none"> – 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: <ul style="list-style-type: none"> – 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.
<i>ShipPosition</i>	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*
n 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 132) and not as a document on a web server.

MS2SSN_Ship_Not - Item	Occ	Description
<i>MRSNotification</i>	0-1	Not allowed if AISNotification specified
<i>MRSInformation</i>	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.
<i>VesselIdentification</i>	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 <i>MMSINumber</i> not given. Has to be checked if not existing in the reference database.

MS2SSN_Ship_Not - Item	Occ	Description
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given. . Has to be checked if not existing in the reference database.
CallSign	0-1	
ShipName	0-1	
<i>VoyageInformation</i>	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 ICD, chapter 8.3).
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”
<i>ShipPosition</i>	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.
ReportingDateAnd Time	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 the 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 Version="2.0" MSRefId="SHIP-NOT-AIS-222" SentAt="2007-02-09T06:27:24Z" From="NCATEST1"
    To="SSN" />
- <Body>
  - <AISNotification>
    <VesselIdentification IMONumber="5270088" MMSINumber="725000730" />
    - <VoyageInformation NextPortOfCall="GRPIR" ETA="2007-02-09T06:27:24Z">
      <ShipPosition Latitude="-31222332" Timestamp="2007-02-09T08:27:24Z"
        Longitude="44322323" />
    </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:

MS2SSN_Alert_Not.xml message

Introduction

The **MS2SSN_Alert_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet that the Member State holds some information about a specific incident type.

Types of Incident

The following types of incidents are supported by SafeSeaNet:

Incident Type	Description
SITREP	Situation report
POLREP	Pollution report
Waste	Waste reporting alert
Lost/found Containers	Reporting containers or packages drifting at sea
Others	Any other one not in the above list

Message description

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

MS2SSN_Alert_Not - Elements		Attributes	Occ
Header			1
		Version	1
		TestId	0-1
		MSRefId	1
		SentAt	1
		From	1
		To	1
Body			1
Incident			1
		Type	1
VesselIdentification			0-1
		IMONumber	0-1
		MMSINumber	0-1
		CallSign	0-1
		ShipName	0-1
ContactIdentification			0-1
		MaritimeAuthority	1
		LoCode	1
		Phone	1
		Fax	1
		EMail	0-1
IncidentDetails			0-1
UrlDetails			0-1
		Url	1
		DocType	1
ContactDetails			0-1
		LastName	0-1
		FirstName	0-1
		LoCode	1
		Phone	1

MS2SSN_Alert_Not - Elements				Attributes	Occ
				Fax	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.

MS2SSN_Alert_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
Incident	1	Incident element node(s). Only 1 element node might be given
Type	1	none
VesselIdentification	0-1	VesselIdentification element node. Mandatory if vessel identified. Also mandatory if Type = “Waste”. Not allowed if ContactIdentification given. 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 give. Has to be checked if not existing in the reference database.
MMSINumber	0-1	Mandatory if IMONumber not given.
CallSign	0-1	none
ShipName	0-1	none
ContactIdentification	0-1	ContactIdentification element node. Mandatory if vessel not identified. Not allowed if VesselIdentification given.
MaritimeAuthority	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.
IncidentDetails	0-1	IncidentDetails element node. <ul style="list-style-type: none"> If not specified, that means the incident details can be obtained from the data provider in XML (see “MS2SSN_Alert_Res.xml message” at page 156) If specified, that means the incident details is available as a document on a web server (<i>UrlDetails</i> must then be specified) or via a phone/fax (<i>ContactDetails</i> must then be specified).

MS2SSN_Alert_Not - Item	Occ	Description
<i>UrlDetails</i>	0-1	Element indicating the type and the url of the document containing the notification details (if the <i>data provider</i> will store the document on a local web server). Not allowed if <i>ContactDetails</i> specified.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>ContactDetails</i>	0-1	Element indicating the contact details to obtain the incident details (if the <i>data provider</i> can only provide the information via phone or fax). Not allowed if <i>UrlDetails</i> specified.
LastName	0-1	none
FirstName	0-1	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.
EEmail	0-1	Email address of the contact person.

Example of an alert for an identified ship

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Alert_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="ALERT-NOT-VESSIDENT-WASTE-XML-32" SentAt="2007-02-12T06:31:21Z"
    From="NCATEST1" To="SSN" />
  - <Body>
    - <Incident Type="Waste">
      <VesselIdentification IMONumber="9020132" MMSI="470335000" />
    </Incident>
  </Body>
</MS2SSN_Alert_Not>
```

As the *IncidentDetails* element is not specified, that means that the incident details can be requested by SSN to the *data provider* using the *SSN2MS_Alert_Req.xml* message.

Example of an alert for an unknown ship

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Alert_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="ALERT-NOT-CONT-565" SentAt="2007-02-01T12:14:13Z"
    From="NCATEST1" To="SSN" />
  - <Body>
    - <Incident Type="POLREP">
      <ContactIdentification MaritimeAuthority="Maritime Ath xyz" LoCode="PTLIS" Phone="+323333333"
        Fax="+323232323" EMail="xyz@yahoo.com" />
    </IncidentDetails>
    <UrlDetails Url="https://test.gov.com/static/sample_file.doc" DocType="DOC" />
  </IncidentDetails>
</Body>
</MS2SSN_Alert_Not>
```

The *ContactIdentification* element gives the coordinates of the maritime authority holding the alert details.

The *IncidentDetails* element indicates that the incident details is available as a Word document and can be downloaded by SSN from the specified url.

MS2SSN_PortPlus_Not.xml message

Introduction

The PortPlus message is used by a Member State (acting as Data Provider) to report to 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).

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			0-1
		UpdateStatus	1
UpdateNotifications			0-99
		UpdateMSRefId	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
		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

MS2SSN_PortPlus_Not - Elements		Attributes	Occ
		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	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
		WasteNotification	0-1
		LastPortDelivered	0-1
		LastPortDeliveredDate	0-1
		WasteDeliveryStatus	1
		SecurityNotification	0-1

MS2SSN_PortPlus_Not - Elements			Attributes	Occ
			CurrentSecurityLevel	1
		<i>AgentInPortAtArrival</i>		0-1
			AgentName	1
			Phone	0-1
			Fax	0-1
			EMail	0-1

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 message.
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 of ShipCallID is defined by the NCA. The NCA guarantees that the ShipCallID value is unique for each call in a port of a MS.
5	<p>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).</p> <p>Data groups are the following:</p> <ul style="list-style-type: none"> ○ VesselIdentification ○ VoyageInformation ○ VesselDetails ○ PreArrival3DaysNotificationDetails ○ PreArrival24HoursNotificationDetails ○ ArrivalNotificationDetails ○ DepartureNotificationDetails ○ HazmatNotificationInfoNonEUDepartures ○ HazmatNotificationInfoEUDepartures ○ WasteNotification ○ SecurityNotification <p>Each data group corresponds to an element of the “Notification” element of the PortPlus message.</p> <p>Data groups “VesselIdentification” and “VoyageInformation” are mandatory and have therefore to be always provided.</p> <p>Once provided, data groups “ArrivalNotificationDetails” and</p>

	“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 groups received 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 system does not reject information which is provided late. But it may apply controls for example 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 an empty data group (e.g. “<SecurityNotification></ SecurityNotification>”). This is only possible for the following data groups: <ul style="list-style-type: none"> ○ HazmatNotificationInfoNonEUDepartures ○ HazmatNotificationInfoEUDepartures ○ WasteNotification ○ SecurityNotification
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.

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_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	
UpdateStatus	1	<ul style="list-style-type: none"> - 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) once receiving the original message. In such situation: <ul style="list-style-type: none"> - 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. The message will expire and its content ignored if the original message is not received within 24 hours. - 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	<ul style="list-style-type: none"> - 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	
Notification	1	
VesselIdentification	1	<ul style="list-style-type: none"> - 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	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
ShipName	0-1	
Flag	0-1	
VoyageInformation	1	
ShipCallId	1	
LastPort	0-1	
PortOfCall	1	<ul style="list-style-type: none"> - 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 notifying 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	
PortFacility	0-1	
ETDFromLastPort	0-1	
ETAToPortOfCall	0-1	<ul style="list-style-type: none"> - Must be < ETDFromPortOfCall - Mandatory unless: <ul style="list-style-type: none"> o PortOfCall = "ZZCAN", or o ATAPortOfCall is provided. - In the cases above, if a value is provided, it is ignored.
ETDFromPortOfCall	0-1	<ul style="list-style-type: none"> - Must be > ETAToPortOfCall. - Mandatory unless: <ul style="list-style-type: none"> o PortOfCall = "ZZCAN", or o ATDPortOfCall is provided. - In the cases above, if a value is provided, it is ignored.
NextPort	0-1	<ul style="list-style-type: none"> - 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" is provided.
ETAToNextPort	0-1	<ul style="list-style-type: none"> - Must be > ATDPortOfCall - Must be > ETDFromPortOfCall - Mandatory if HazmatNotificationInfoEUDepartures with HazmatOnBoardYorN = "Y" is provided, unless NextPort=ZZUKN. - If NextPort=ZZUKN, value is ignored if provided.
BriefCargoDescription	0-1	
PurposeOfCall	0-9	
CallPurposeCode	1	
VesselDetails	0-1	
GrossTonnage	0-1	
ShipType	0-1	
InmarsatCallNumber	0-5	
Inmarsat	1	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
<i>CertificateOfRegistry</i>	0-1	
IssueDate	0-1	
CertificateNumber	0-1	
<i>PortOfRegistry</i>	0-1	
LoCode	0-1	Mandatory if LocationName is not provided
LocationName	0-1	Mandatory if LoCode is not provided
<i>Company</i>	0-1	
CompanyName	0-1	Mandatory if IMOCompanyNr is not provided.
IMOCompanyNr	0-1	Mandatory if CompanyName is not provided.
<i>PreArrival3DaysNotificationDetails</i>	0-1	<ul style="list-style-type: none"> - To be provided, at least three days from expected arrival to the Port of Call for ships eligible 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 its attributes 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
<i>PreArrival24HoursNotificationDetails</i>	0-1	<ul style="list-style-type: none"> - 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
<i>ArrivalNotificationDetails</i>	0-1	<ul style="list-style-type: none"> - Once provided, to be repeated in all update messages. - Mandatory if DepartureNotificationDetails is provided.
ATAPortOfCall	1	<ul style="list-style-type: none"> - 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).
Anchorage	0-1	
<i>DepartureNotificationDetails</i>	0-1	Once provided, to be repeated in all update messages.
ATDPortOfCall	1	Must be > ATAPortOfCall
POBVoyageTowardsNextPort	0-1	Mandatory if HazmatNotification InfoEUDepartures provided
<i>HazmatNotificationInfoNonEUDepartures</i>	0-1	
<i>HazmatCargoInformation</i>	1	

MS2SSN_PortPlus_Not - Item	Occ	Business rules
HazmatOnBoardYorN	1	<ul style="list-style-type: none"> - Must be “Y” or “N” - “N” may be used to discard previously provided HazmatNotification InfoEUDepartures.
INFShipClass	0-1	Recommendation: This is to be provided only if ship carries class 7 cargo.
DG	0 - 99	Provides the indication of the types of dangerous and polluting goods on board.
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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	
HazmatNotification InfoEUDepartures	0-1	
HazmatCargoInformation	1	
HazmatOnBoardYorN	1	<ul style="list-style-type: none"> - Must be “Y” or “N” - “N” may be used to discard previously provided HazmatNotification InfoEUDepartures. - “
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).

MS2SSN_PortPlus_Not - Item	Occ	Business rules
<i>UrlDetails</i>	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.
<i>ContactDetails</i>	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.
EEmail	0-1	
<i>WasteNotification</i>	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
<i>SecurityNotification</i>	0-1	
CurrentSecurityLevel	1	
<i>AgentInPortAtArrival</i>	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.
EEmail	0-1	At least one contact detail must be provided (Phone, Fax or Email)

**Example of a
PortPlus
notification**

PreArrival3Days notification example:

PreArrival24hours and HazmatNotificationInfoNonEUDepartures notification example:

Arrival notification example:

Departure and HazmatNotificationInfoEUDepartures notification example:

MS2SSN_Exemption_Not.xml message

Introduction

This section describes the Exemption Notification 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 States may report information on exemptions using the web interface of the 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
Body	To	1
	Exemption	1
	ExemptionID	1
	UpdateStatus	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	2-∞
	Port	1
	Authority	1
	Country	1
	AuthorityType	1
	AuthorityName	1
	Contact24/7	1
	FirstName	0-1
	LastName	0-1

MS2SSN_Exemption_Not - Elements				Attributes	Occ
				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	An Exemption 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 ExemptionID is 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	<ul style="list-style-type: none"> - 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.

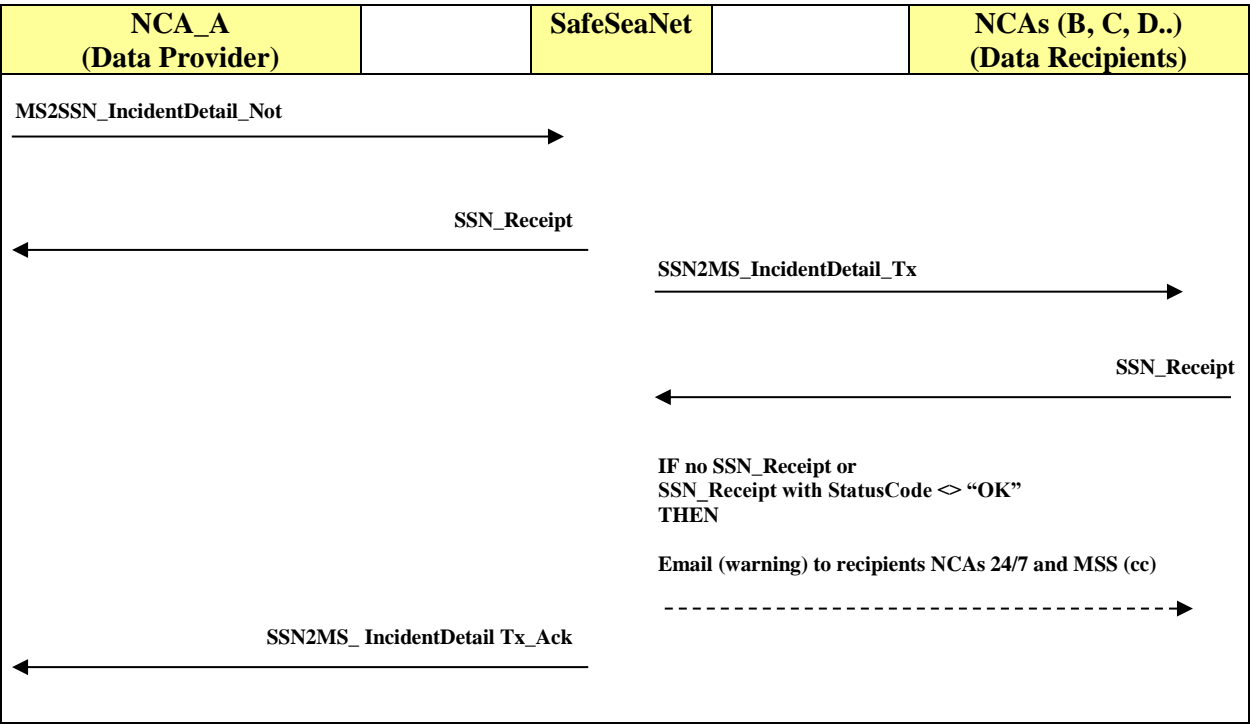
MS2SSN_Exemption_Not - Item	Occ	Business rules
		- If a message with UpdateStatus = “N” is received with an ExemptionID already registered in the Central SSN System, it is rejected.
<i>VesselIdentification</i>	0-1	Mandatory if UpdateStatus = “N” or “U”.
IMONumber	0-1	Mandatory if MMSINumber is not provided.
MMSINumber	0-1	Mandatory if IMONumber is not provided.
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
<i>ExemptionDetails</i>	0-1	Mandatory if UpdateStatus = “N” or “U”.
ExemptionType	1	
CompanyName	1	
DateFrom	1	Indicates the validity period of the Exemption.
DateTo	1	
<i>Route</i>	2-∞	
Port	1	
<i>Authority</i>	1	
Country	1	
AuthorityType	1	
AuthorityName	1	
<i>Contact24/7</i>	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)

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 new IncidentDetails message shall be used as an alternative to the Alert notifications. 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 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:

Topic	See Page
MS2SSN_IncidentDetail_Not.xml message	90
SSN2MS_IncidentDetail_Tx.xml message	108
SSN2MS_IncidentDetail_Tx_Ack.xml message	123

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. The new IncidentDetails message shall be used as an alternative to the Alert notifications.

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	Insurance Failure report
PilotOrPortReport	Pilot or Port 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
						<i>BearingDistance</i>	<i>0-1</i>
						Bearing	1
						Distance	1
						Mark	1
						<i>ShipPositionAtTimeOfReporting</i>	<i>0-1</i>
						<i>GeoCoordinates</i>	<i>0-1</i>
						Longitude	1
						Latitude	1
						<i>Area</i>	<i>0-1</i>
						GeographicalArea	1
						<i>BearingDistance</i>	<i>0-1</i>
						Bearing	1
						Distance	1
						Mark	1
						<i>AuthorityReportingIncident</i>	<i>1</i>
						<i>SSNUserIdentifier</i>	0-1
						SSNUserID	1
						<i>IdentificationOfAuthority</i>	0-1
						AuthorityName	1
						LoCode	1
						Phone	1
						Fax	1
						EMail	0-1
						<i>IncidentDetailsDocument</i>	<i>0-1</i>
						<i>Base64Details</i>	<i>1</i>
						DocType	1
						Base64Content	1
						<i>IncidentDetails</i>	<i>0-1</i>
						<i>WasteIncidentInformation</i>	<i>0-1</i>
						<i>NonComplianceInformation</i>	<i>1</i>
						WasteDeliveryDuePort	1
						ETD	1
						InspectionReason	1
						<i>InspectionInformation</i>	<i>0-1</i>
						Deficiencies	1
						ActionTaken	1
						<i>InspectionAuthority</i>	<i>1</i>
						Name	1
						Phone	1

MS2SSN_IncidentDetail_Not - Elements				Attributes		Occ									
					Fax	0-1									
					EMail	0-1									
					SITREPIncidentInformation					0-1					
					SITREPIInformation					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					
					POLREPIInformation					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
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									

MS2SSN_IncidentDetail_Not - Elements					Attributes	Occ							
					<i>P44_Wind</i>		<i>0-1</i>						
						Speed	1						
						Direction	1						
						<i>P45_Tide</i>		<i>0-1</i>					
							Speed	1					
							Direction	1					
						<i>P46_SeaState</i>		<i>0-1</i>					
							WaveHeight	1					
							Visibility	0-1					
						<i>P47_PollutionDrift</i>		<i>0-1</i>					
							DriftCourse	1					
							DriftSpeed	1					
						P48_PollutionEffectForecast						0-1	
						<i>P49_ObserverIdentity</i>		<i>0-99</i>					
							Name	1					
							HomePort	0-1					
							Flag	0-1					
							CallSign	0-1					
						P50_ActionTaken						1	
						P51_Photographs						0-1	
						<i>P52_InformedStateOrg</i>		<i>0-99</i>					
							Name	1					
						P53_OtherInformation						0-1	
						P60_Acknowledge						0-1	
						<i>POLFAC</i>		<i>0-1</i>					
							P80_DateTime						0-1
							P81_RequestForAssistance						0-1
							<i>Assistance</i>		<i>0-1</i>				
								P82_Cost	0-1				
								P83_PreArrangements	0-1				
								P84_Delivery	0-1				
							<i>P85_InformedStateOrg</i>		<i>0-99</i>				
								Name	1				
							P86_ChangeOfCommand						0-1
							P87_ExchangeOfInformation						0-1
							P88_OtherInformation						0-1
							P99_Acknowledge						0-1
<i>LostFoundObjectIncidentInformation</i>							<i>0-1</i>						
	<i>LostFoundObjectInformation</i>						<i>1</i>						

MS2SSN_IncidentDetail_Not - Elements					Attributes	Occ
					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
					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

MS2SSN_IncidentDetail_Not - Elements			Attributes	Occ	
			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>		
			Feedback		
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	

MS2SSN_IncidentDetail_Not - Elements			Attributes	Occ
			EMail	0-1
		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). Note: The IncidentID replaces also the old attribute "SitrepID" of the Alert notification.
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

MS2SSN_IncidentDetail_Not - Item	Occ	Description
		<p>reports.</p> <p>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.</p> <p>The following rules should be considered whenever a message is sent with UpdateStatus="U" (Update):</p> <ol style="list-style-type: none"> 1. An update message should always include all the details of the Incident Report: <ul style="list-style-type: none"> - 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 Incident Report. <p>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.</p> <p>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.</p>
<i>UpdateNotifications</i>	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
<i>IRDistributionDetails</i>	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 of ships involved in the incident and flying the flag of a SSN participant (SSN uses the Flag attribute in IRVessel_IdentityVerified).
<i>IRRecipient</i>	0-99	None
RecipientCountry	1	None
ActionRequestedDetail	0-1	Content of the action requested.
<i>IRVesselIdentificationList</i>	0-1	<p>IRVesselIdentificationList element node.</p> <p>To be provided if one or several ships are involved in the incident.</p> <p>Mandatory if Incident Type is:</p> <ul style="list-style-type: none"> - WasteIncident - FailedNotification - VTSRulesInfringement - BannedShip - InsuranceFailure - PilotOrPortReport

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<i>IRVesselIdentification</i>	<i>1-99</i>	IRVesselIdentification element node. To be used to identify a single ship.
<i>IRVessel_IdentityVerified</i>	<i>0-1</i>	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.
<i>IRVessel_IdentityNotFullyVerified</i>	<i>0-1</i>	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	
<i>IRVoyageInformation</i>	<i>0-1</i>	VoyageInformation element node.
PortofDeparture	0-1	none
PortOfDestination	0-1	none
TotalPersonsOnBoard	0-1	none
<i>CargoManifest</i>	<i>0-1</i>	CargoManifest element node
<i>UrlDetails</i>	<i>0-1</i>	UrlDetails element node. Mandatory if ContactDetails not provided
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>ContactDetails</i>	<i>0-1</i>	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.
<i>ShipPositionAtTimeOfIncident</i>	<i>0-1</i>	ShipPositionAtTimeOfIncident element node. Mandatory for Incident type is SITREP with vessel identified (element IRVessel_IdentityVerified is provided)
<i>GeoCoordinates</i>	<i>0-1</i>	GeoCoordinates element node. Mandatory if Area or BearingDistance not provided. For backward compatibility with the MS2SSN_Alert_Res message should return a dummy value "LATITUDE= 0" and "LONGITUDE=0" if the GeoCoordinates are not provided and the attributes "Area" or "BearingDistance" are filled in.
Longitude	1	none
Latitude	1	none

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<i>Area</i>	<i>0-1</i>	Area element node. Mandatory if GeoCoordinates or BearingDistance not provided
GeographicalArea	1	none
<i>BearingDistance</i>	<i>0-1</i>	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
<i>ShipPositionAtTimeOfReporting</i>	<i>0-1</i>	ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTimeOfIncident
<i>GeoCoordinates</i>	<i>0-1</i>	GeoCoordinates element node. Mandatory if Area or BearingDistance not provided
Longitude	1	none
Latitude	1	none
<i>Area</i>	<i>0-1</i>	Area element node. Mandatory if GeoCoordinates or BearingDistance not provided
GeographicalArea	1	none
<i>BearingDistance</i>	<i>0-1</i>	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
<i>AuthorityReportingIncident</i>	<i>1</i>	Defines the authority responsible for the reporting of the Incident Report (e.g. VTS, MRCC etc...). Recommendation: Identification should preferably be done with the SSNUserID.
<i>SSNUserIdentifier</i>	<i>0-1</i>	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.
<i>IdentificationOfAuthority</i>	<i>0-1</i>	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.
<i>IncidentDetailsDocument</i>	<i>0-1</i>	IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as complementary information of IncidentDetails.
<i>Base64Details</i>	<i>1</i>	Base64Details element node. Indicates the document containing the notification details.
DocType	1	Extensions are not case sensitive
Base64Content	1	none
<i>IncidentDetails</i>	<i>0-1</i>	IncidentDetails element node. Only 1 child element is allowed. Mandatory if IncidentDetailsDocument not provided.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<u>WasteIncidentInformation</u>	0-1	WasteIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="Waste" .
<i>NonComplianceInformation</i>	1	NonComplianceInformation element node.
WasteDeliveryDuePort	1	none
ETD	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
InspectionReason	1	none
<i>InspectionInformation</i>	0-1	InspectionInformation element node.
Deficiencies	1	none
ActionTaken	1	none
<i>InspectionAuthority</i>	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.
<u>SITREPIncidentInformation</u>	0-1	SITREPIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="SITREP" .
<i>SITREPInformation</i>	1	SITREPInformation element node
<i>C_Situation</i>	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. For backward compatibility this attribute is mapped as "D_NumberOfPersons" in the MS2SSN_Alert_Res message (and vice versa).
E_AssistanceRequired	0-1	none
F_CoordinatingAuthority	0-1	If "AuthorityReportingIncident" is quoted then "F_CoordinatingAuthority" is not mandatory. For backward compatibility this attribute is mapped as "F_CoordinatingRCC" in the MS2SSN_Alert_Res message (and vice versa).
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

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<u>POLREPIncidentInformation</u>	0-1	POLREPIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="POLREP".
POLREPIncidentInformation	1	POLREPIncidentInformation 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
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. For backward compatibility, the MS2SSN_Alert_Res message should return a dummy value "LATITUDE= 0" and "LONGITUDE=0" if the GeoCoordinates are not provided and the attributes "Area" or "BearingDistance" are reported.
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.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<i>P46_SeaState</i>	<i>0-1</i>	SeaState element node.
WaveHeight	1	none
Visibility	0-1	none
<i>P47_PollutionDrift</i>	<i>0-1</i>	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
<i>P49_ObserverIdentity</i>	<i>0-99</i>	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
P51_Photos	0-1	none
<i>P52_InformedStateOrg</i>	<i>0-99</i>	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
<i>POLFAC</i>	<i>0-1</i>	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
<i>Assistance</i>	<i>0-1</i>	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
<i>P85_InformedStateOrg</i>	<i>0-99</i>	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
<i>LostFoundObjectIncidentInformation</i>	<i>0-1</i>	LostFoundObjectIncidentInformation element node, child of IncidentDetails. Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="LostFoundContainers".

MS2SSN_IncidentDetail_Not - Item	Occ	Description
<i>LostFoundObjectInformation</i>	<i>1</i>	LostFoundObjectInformation element node.
DateTimeReportLostFoundObject	1	none
P1_ReportType	1	none
<i>P2_ShipOrObserverIdentification</i>	<i>0-1</i>	P2_ShipOrObserverIdentification element node.
IMONumber	0-1	Mandatory if MMSINumber or Other is not given. Has to be checked if not existing in the reference database.
MMSINumber	0-1	Mandatory if IMONumber or Other is 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.
Other	0-1	Mandatory if IMONumber or MMSINumber not given.
<i>ObjectInformation</i>	<i>1</i>	ObjectInformation element node.
<i>P3_ObjectPosition</i>	<i>1</i>	P3_ObjectPosition element node. Last seen position of the object at sea, or last position of ship when the object has presumably been lost
<i>GeoCoordinates</i>	<i>0-1</i>	GeoCoordinates element node. Mandatory if Area or BearingDistance not provided. For backward compatibility, the MS2SSN_Alert_Res message should return a dummy value "LATITUDE= 0" and "LONGITUDE=0" if the GeoCoordinates are not provided and the attributes "Area" or "BearingDistance" are reported.
Longitude	1	none
Latitude	1	none
<i>Area</i>	<i>0-1</i>	Area element node. Mandatory if GeoCoordinates or BearingDistance not provided
GeographicalArea	1	none
<i>BearingDistance</i>	<i>0-1</i>	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
<i>ObjectDetails</i>	<i>0-1</i>	ObjectDetails element node
P4_NumberOfObjects	0-1	For backward compatibility this attribute is mapped as "P4_NumberOfContainers" in the MS2SSN_Alert_Res message (and vice versa).
P5_TypeOfGoods	0-1	none
<i>Object</i>	<i>0-99</i>	Object element node.
Description	1	none
CargoLeaking	0-1	none
<i>Wind</i>	<i>0-1</i>	Wind element node.
Speed	1	Indicates wind speed in m/sec.
Direction	1	The direction always indicates from where the wind is blowing.
<i>Tide</i>	<i>0-1</i>	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.
<i>SeaState</i>	<i>0-1</i>	SeaState element node.
WaveHeight	1	none
Visibility	0-1	none
<i>ObjectDrift</i>	<i>0-1</i>	ObjectDrift element node.
DriftCourse	1	Indicates the drift course of containers in degrees

MS2SSN_IncidentDetail_Not - Item	Occ	Description
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
<u>FailedNotificationIncidentInformation</u>	0-1	FailedNotificationIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="FailedNotification" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<u>VTSRulesInfringementIncidentInformation</u>	0-1	VTSRulesInfringementIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="VTSRulesInfringement" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<u>BannedShipIncidentInformation</u>	0-1	BannedShipIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="BannedShip" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<u>InsuranceFailureIncidentInformation</u>	0-1	InsuranceFailureIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="InsuranceFailure" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<u>PilotOrPortReportIncidentInformation</u>	0-1	PilotOrPortReportIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="PilotOrPortReport" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<u>OtherIncidentInformation</u>	0-1	OtherIncidentInformation element node, child of IncidentDetails . Not allowed if another child element of IncidentDetails is specified. Only valid if IncidentIdentification / Type="Others" .
<i>Description</i>	1	Description of the incident (free text)
<TBD>		
<i>Feedback</i>	0-1	Feedback element node. Not allowed if Incident element is provided.
<i>FeedbackIdentification</i>	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.
<i>FeedbackNotificationStatus</i>	1	FeedbackNotificationStatus element note.

MS2SSN_IncidentDetail_Not - Item	Occ	Description
UpdateStatus	1	<p>Values of UpdateStatus are “N” for new feedback, “U” for updates of feedback, and “D” for deletion of feedback.</p> <p>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.</p> <p>The following rules should be considered whenever a message is sent with UpdateStatus=”U” (Update)</p> <ol style="list-style-type: none"> 1. An update message should always include all the details of the feedback: <ul style="list-style-type: none"> - 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. <p>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.</p> <p>FeedbackID of a deleted message cannot be reused.</p>
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 the feedback. 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

MS2SSN_IncidentDetail_Not - Item	Occ	Description
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. Indicates the 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" ?>
- <ssn:MS2SSN_IncidentDetail_Not xmlns:ssn="urn:eu.emsa.ssn">
  <ssn:Header From="testUser1" MSRefId="MS2SSN_Inc_Not_01" SentAt="2012-08-31T12:00:00" To="SSN"
    Version="2.0" />
- <ssn:Body>
- <ssn:Notification>
  - <ssn:Incident>
    <ssn:IncidentIdentification IncidentID="GR001012345678901234" Type="Waste" />
    <ssn:IncidentNotificationStatus UpdateStatus="N" />
    <ssn:IRDistributionDetails DistributionIR_yes_no="Y" IRDistributionToFlagState="GR" />
  - <ssn:IRVesselIdentificationList>
    - <ssn:IRVesselIdentification>
      <ssn:IRVessel_IdentityVerified CallSign="HMD00" IMONumber="7350002"
        IRNumber_FishingVessel="ABC012345678" MMSINumber="445889000"
        ShipName="HAMMOUDI J" />
      <ssn:IRVoyageInformation PortOfDeparture="GRPIR" PortOfDestination="GRSAL"
        TotalPersonsOnBoard="12" />
    - <ssn:CargoManifest>
      <ssn:ContactDetails EMail="Safe-Sea-Net@emsa.europa.eu" Fax="+351211209217"
        FirstName="SafeSeaNet" LastName="EMSA" LoCode="GRPIR"
        Phone="+351211209415" />
      </ssn:CargoManifest>
    - <ssn:ShipPositionAtTimeIncident>
      <ssn:Area GeographicalArea="North Aegean" />
      </ssn:ShipPositionAtTimeIncident>
    </ssn:IRVesselIdentification>
  </ssn:IRVesselIdentificationList>
  - <ssn:AuthorityReportingIncident>
    <ssn:IdentificationOfAuthority EMail="admin@emsa.eu" Fax="2101234567" LoCode="GRPIR"
      Phone="2101234567" AuthorityName="authName" />
    </ssn:AuthorityReportingIncident>
  - <ssn:IncidentDetails>
    <ssn:OtherIncidentInformation Description="incidentDescription" />
    </ssn:IncidentDetails>
  </ssn:Incident>
</ssn:Notification>
</ssn:Body>
</ssn: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
	InspectionAuthority	Deficiencies	1
		ActionTaken	1
			1
		Name	1
		Phone	1
		Fax	0-1
		EMail	0-1
	SITREPIncidentInformation		0-1
	SITREPIInformation		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_Photos	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			
								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	
								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	FeedbackDistributionToFlagState	0-1
				FeedbackRecipient	0-99
				RecipientCountry	1
			AuthorityReportingAction	SSNUserIdentifier	0-1
				SSNUserID	1
				IdentificationOfAuthority	0-1
				AuthorityName	1
				LoCode	1
				Phone	1
				Fax	1
				EMail	0-1
			ReportActionDetails	DateTimeReportAction	1
				Details	1
			ReportActionDocument	Base64Details	1
				DocType	1
				Base64Content	1
			<TBD>		

SSN2MS_IncidentDetail_Tx 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.

Business Rules

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	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. 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
<i>IRVessel_IdentityNotFullyVerified</i>	<i>0-1</i>	IRVessel_IdentityNotFullyVerified element node. Mandatory if IRVessel_IdentityVerified not provided.
DescribeVessel	1	From original MS2SSNIncidentDetail_Not
<i>IRVoyageInformation</i>	<i>0-1</i>	IRVoyageInformation element node.
PortofDeparture	0-1	From original MS2SSNIncidentDetail_Not.
PortOfDestination	0-1	
TotalPersonsOnBoard	0-1	
<i>CargoManifest</i>	<i>0-1</i>	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"
<i>ShipPositionAtTimeOfIncident</i>	<i>0-1</i>	ShipPositionAtTimeOfIncident. Mandatory for Incident type SITREP with vessel identified
<i>GeoCoordinates</i>	<i>0-1</i>	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
<i>Area</i>	<i>0-1</i>	
GeographicalArea	1	
<i>BearingDistance</i>	<i>0-1</i>	
Bearing	1	
Distance	1	
Mark	1	
<i>ShipPositionAtTimeOfReporting</i>	<i>0-1</i>	ShipPositionAtTimeOfReporting element node. Not provided if the position is the same as ShipPositionAtTimeOfIncident
<i>GeoCoordinates</i>	<i>0-1</i>	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
<i>Area</i>	<i>0-1</i>	
GeographicalArea	1	
<i>BearingDistance</i>	<i>0-1</i>	
Bearing	1	
Distance	1	
Mark	1	
<i>AuthorityReportingIncident</i>	<i>1</i>	AuthorityReportingIncident element node.
<i>SSNUserIdentifier</i>	<i>0-1</i>	SSN user identification. If provided, IdentificationOfAuthority will not be provided.
SSNUserID	1	From original MS2SSNIncidentDetail_Not
<i>IdentificationOfAuthority</i>	<i>0-1</i>	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
<i>IncidentDetailsDocument</i>	<i>0-1</i>	IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as complementary information of IncidentDetails.
<i>Base64Details</i>	<i>1</i>	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	
<i>IncidentDetails</i>	<i>0-1</i>	IncidentDetails element node. Only 1 element node might be given. Mandatory if IncidentDetailsDocument not provided.
<i>WasteIncidentInformation</i>	<i>0-1</i>	WasteIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.
<i>NonComplianceInformation</i>	<i>1</i>	From original MS2SSNIncidentDetail_Not
WasteDeliveryDuePort	1	
ETD	1	
InspectionReason	1	
<i>InspectionInformation</i>	<i>0-1</i>	
Deficiencies	1	
ActionTaken	1	
<i>InspectionAuthority</i>	<i>1</i>	
Name	1	
Phone	1	
Fax	0-1	
EMail	0-1	
<i>SITREPIncidentInformation</i>	<i>0-1</i>	SITREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. From original MS2SSNIncidentDetail_Not
<i>SITREPIInformation</i>	<i>1</i>	
<i>C_Situation</i>	<i>1</i>	
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	
<i>POLREPIncidentInformation</i>	<i>0-1</i>	POLREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.
<i>POLREPIncidentInformation</i>	<i>1</i>	From original MS2SSNIncidentDetail_Not
<i>POLWARN</i>	<i>0-1</i>	
P1_DateTime	1	
P3_Incident	0-1	
P4_Outflow	0-1	
P5_Acknowledge	0-1	
<i>P2_Position</i>	<i>1</i>	
<i>GeoCoordinates</i>	0-1	
Longitude	1	
Latitude	1	
<i>Area</i>	0-1	
GeographicalArea	1	
<i>BearingDistance</i>	0-1	
Bearing	1	
Distance	1	
Mark	1	
<i>POLINF</i>	<i>0-1</i>	
P40_DateTime	0-1	
P41_PollutionPosition	0-1	
P42_PollutionChars	0-1	
P43_PollutionSource	0-1	
<i>P44_Wind</i>	<i>0-1</i>	
Speed	1	
Direction	1	
<i>P45_Tide</i>	<i>0-1</i>	
Speed	1	
Direction	1	
<i>P46_SeaState</i>	<i>0-1</i>	
WaveHeight	1	
Visibility	0-1	

SSN2MS_IncidentDetail_Tx - Item	Occ	Description
<i>P47_PollutionDrift</i>	0-1	
DriftCourse	1	
DriftSpeed	1	
P48_PollutionEffectForecast	0-1	
<i>P49_ObserverIdentity</i>	0-99	
Name	1	
HomePort	0-1	
Flag	0-1	
CallSign	0-1	
P50_ActionTaken	1	
P51_Photos	0-1	
<i>P52_InformedStateOrg</i>	0-99	
Name	1	
P53_OtherInformation	0-1	
P60_Acknowledge	0-1	
POLFAC	0-1	
P80_DateTime	0-1	
P81_RequestForAssistance	0-1	
<i>Assistance</i>	0-1	
P82_Cost	0-1	
P83_PreArrangements	0-1	
P84_Delivery	0-1	
<i>P85_InformedStateOrg</i>	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
DateReportLostFoundObject	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	
<i>GeoCoordinates</i>	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	FailedNotificationIncidentInformation element 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.
<i>Description</i>	1	From original MS2SSNIncidentDetail_Not
<TBD>	-	
OtherIncidentInformation	0-1	OtherIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.
<i>Description</i>	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" ?>
- <ssn:SSN2MS_IncidentDetail_Tx xmlns:ssn="urn:eu.emsa.ssn">
  <ssn:Header From="SSN" SSNRefId="SSN2MS_Inc_Detail_02" SentAt="2012-08-31T12:00:01" To="MS_Tx"
    Version="2.0" />
  - <ssn:Body>
    - <ssn:DistributedDetails>
      - <ssn:Incident>
        <ssn:IncidentIdentification IncidentID="GR001012345678901232" Type="Waste" />
        <ssn:IncidentNotificationStatus UpdateStatus="N" />
        <ssn:IRDistributionDetails IRDistributionToFlagState="GR" />
      - <ssn:IRVesselIdentificationList>
        - <ssn:IRVesselIdentification>
          <ssn:IRVessel_IdentityVerified CallSign="HMD00" IMONumber="7350002"
            IRNumber_FishingVessel="ABC012345678" MMSINumber="445889000" ShipName="HAMMOUDI J" />
          <ssn:IRVoyageInformation PortOfDeparture="GRPIR" PortOfDestination="GRSAL"
            TotalPersonsOnBoard="12" />
          <ssn:CargoManifest_Details>"Cargo manifest available upon request to central SSN system" />
        - <ssn:ShipPositionAtTimeIncident>
          <ssn:Area GeographicalArea="North Aegean" />
        </ssn:ShipPositionAtTimeIncident>
        </ssn:IRVesselIdentification>
      </ssn:IRVesselIdentificationList>
      - <ssn:AuthorityReportingIncident>
        <ssn:IdentificationOfAuthority EMail="admin@emsa.eu" Fax="2101234567" LoCode="GRPIR"
          Phone="2101234567" AuthorityName="authName" />
      </ssn:AuthorityReportingIncident>
    - <ssn:IncidentDetails>
      - <ssn:POLREPIncidentInformation>
        - <ssn:POLREPInformation>
          + <ssn:POLWARN P1_DateTime="2012-09-14T12:00:00" P3_Incident="P3Incident"
            P4_Outflow="P4Outflow" P5_Acknowledge="P5Acknowledge">
          + <ssn:POLINF P40_DateTime="2012-08-31T12:00:01" P41_PollutionPosition="P41PollutionPosition"
            P42_PollutionChars="P42PollutionChars" P43_PollutionSource="P43PollutionSource"
            P46_PollutionEffectForecast="P48PollutionEffectForecast" P51_Photos="P51Photographs"
            P50_ActionTaken="P50ActionTaken" P53_OtherInformation="P53OtherInformation"
            P60_Acknowledge="P60Acknowledge">
          + <ssn:POLFAC P80_DateTime="2012-08-31T12:00:01"
            P81_RequestForAssistance="P81RequestForAssistance"
            P86_ChangeOfCommand="P86ChangeOfCommand"
            P87_ExchangeOfInformation="P87ExchangeOfInformation"
            P88_OtherInformation="P88OtherInformation" P99_Acknowledge="P99Acknowledge">
          </ssn:POLREPInformation>
        </ssn:POLREPIncidentInformation>
      </ssn:IncidentDetails>
    </ssn:Incident>
  </ssn:DistributedDetails>
</ssn:Body>
</ssn:SSN2MS_IncidentDetail_Tx>
```

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_AuthorityXML		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_AuthorityXML		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 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.

Business Rules

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_AuthorityXML	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_AuthorityXML	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 acknowledgem nt report

```
<?xml version="1.0" encoding="UTF-8" ?>
- <ssn:SSN2MS_IncidentDetail_Tx_Ack xmlns:ssn="urn:eu.emsa:ssn">
  <ssn:Header From="SSN" SSNRefId="SSN2MS_Inc_Detail_Ack_01" SentAt="2012-08-31T12:00:05"
    To="testUser1" Version="2.0" />
- <ssn:Body>
  <ssn:IncidentReportAcknowledged IncidentID="IncId01" MsRefIDofIRupdate="" />
- <ssn:IRorFeedbackRecipients_Ack_list>
  - <ssn:SSNparticipant_asIRorFeedbackRecipient RecipientCountry="GR">
    <ssn:SSN_AuthorityXML SSN_ID_AuthorityXML="ssnId" RecipientXML_Ack="OK" />
  </ssn:SSNparticipant_asIRorFeedbackRecipient>
  </ssn:IRorFeedbackRecipients_Ack_list>
- <ssn:IRorFeedbackFlagStateRecipient_Ack_list>
  - <ssn:SSNparticipant_asIRorFeedbackRecipient RecipientCountry="GR">
    <ssn:SSN_AuthorityXML SSN_ID_AuthorityXML="ssnId" RecipientXML_Ack="OK" />
  </ssn:SSNparticipant_asIRorFeedbackRecipient>
  </ssn:IRorFeedbackFlagStateRecipient_Ack_list>
  </ssn:Body>
</ssn:SSN2MS_IncidentDetail_Tx_Ack>
```

Section 3.6 - Get Ship Notification Details

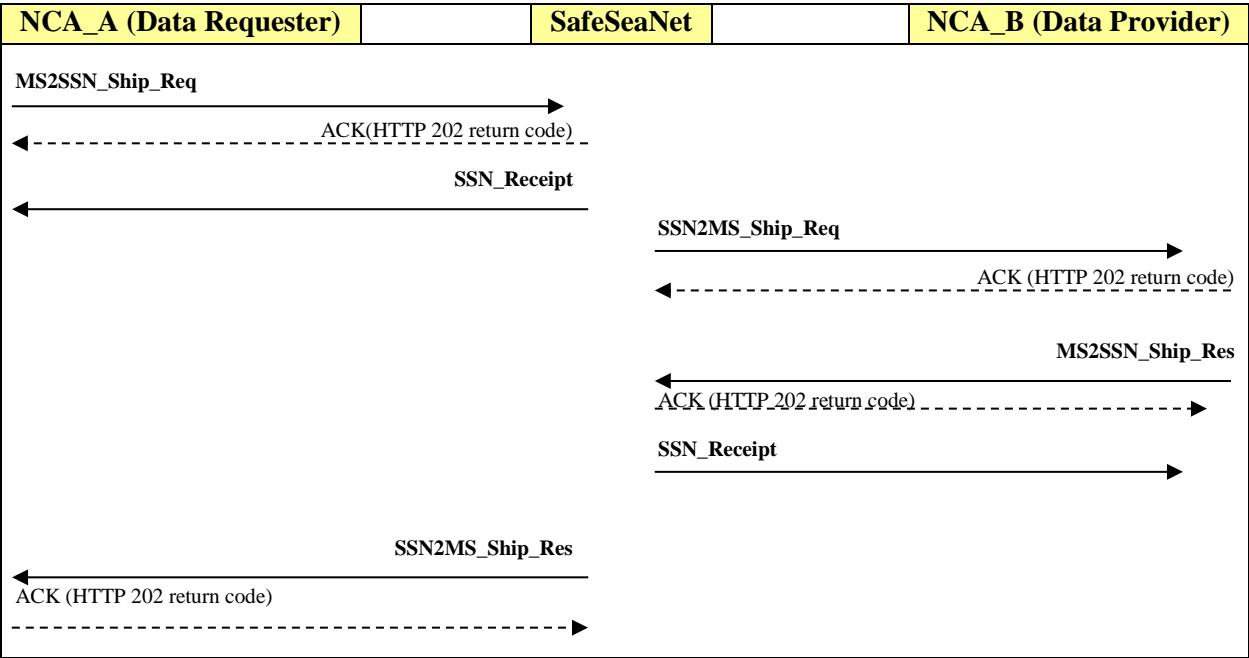
Overview

Introduction A Member State 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 34)

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 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 22 for more details):



Contents This section contains the following topics:

Topic	See Page
MS2SSN_Ship_Req.xml message	127
SSN2MS_Ship_Req.xml message	130
MS2SSN_Ship_Res.xml message	132
SSN2MS_Ship_Res.xml message	141

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	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body	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 <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> 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	<p>General rule: the query retrieves the latest MRS information available in SSN (on the basis of "ReportingDateTime") for a selected vessel (identified by the "IMONumber" and/or "MMSINumber")</p> <p>As a subcase of the above rule, the attribute "MRSIdentification" (optional) can be quoted to search the latest information for a specific MRS.</p> <p>The attribute "SenderCountryId" (optional) can be used to restrict the query to notifications sent by a specific MS.</p> <p>The response to this query (SSN2MS_Ship_Details_Res.xml) includes information from both notification and details. The details are provided via XML</p>	<ul style="list-style-type: none"> - "ShipNotType", - "IMONumber" or "MMSINumber". 	<ul style="list-style-type: none"> - "MRSIdentification" - "SenderCountryId"
2	ShipNotType=AIS	<p>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")</p> <p>As a subcase of the above rule, the attribute "SenderCountryId" (optional) can be used to select a specific MS providing the notification.</p> <p>The response to this query (SSN2MS_Ship_Details_Res.xml) includes information from both notification and detail. Details are provided via XML.</p>	<ul style="list-style-type: none"> - "ShipNotType", - "IMONumber" or "MMSINumber". 	<ul style="list-style-type: none"> - "SenderCountryId"

Example

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 22 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

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	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-∞
		IMOCClass	1
		Quantity	1

MS2SSN_Ship_Res - Elements			Attributes	Occ
		ContactDetails	1	
		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.
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	Optional only if StatusCode=”InvalidFormat”
SearchCriteria	1	
ShipNotType	1	From initial <i>MS2SSN_Ship_Req.xml</i> 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 DGDDetails 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 DGDDetails 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.
DGDDetails	1-∞	
IMOCClass	1	
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

MS2SSN_Ship_Res - Item	Occ	Description
Phone	0-1	At least one contact detail must be provided (Phone, Fax or Email)
Fax	0-1	
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
<i>AISNotificationDetails</i>	0-1	<i>AISNotificationDetails</i> element node. Not allowed if <i>StatusCode</i> <> OK or if <i>MRSNotificationDetails</i> specified. No checking rules applied in the AIS response.
<i>VesselInformation</i>	0-1	<i>VesselInformation</i> element node
LengthAndBeam	0-1	none
ShipDraught	0-1	none
ShipType	0-1	none
AntennaLocation	0-1	none
<i>AISVoyageInformation</i>	1	<i>AISVoyageInformation</i> 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.
<i>AISDynamicInformation</i>	1	<i>AISDynamicInformation</i> 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
<i>AISCargoInformation</i>	0-1	<i>AISCargoInformation</i> 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">
  <Header Version="2.0" MSRefId="SHIP-RES-AIS-Test-12-1" SSNRefId="SHIP_REQ_AIS_01213-AB" SentAt="2005-12-01T22:00:13Z" From="NCATEST1" To="SSN" StatusCode="OK" />
  <Body>
    <SearchCriteria IMONumber="5270088" />
    <VesselIdentification IMONumber="5270088" MMSINumber="725000730" CallSign="CB4611" ShipName="NORTH OCEAN" />
    <AISNotificationDetails>
      <VesselInformation LengthAndBeam="100 100" ShipDraught="23" ShipType="3" AntennaLocation="100 100" />
      <AISVoyageInformation NextPortOfCall="PLGDN" ETA="2005-12-01T18:00:00Z" Longitude="123456" Latitude="123456" Timestamp="2005-12-01T18:00:00Z" TotalPersonsOnBoard="23" />
      <AISDynamicInformation RoutePlan="1" ROT="1" COG="3200" SOG="100" Heading="320" NavigationalStatus="0" />
      <AISCargoInformation HazardousCargoType="MP" />
    </AISNotificationDetails>
  </Body>
</MS2SSN_Ship_Res>
```

Continued on next page

MS2SSN_Ship_Res.xml message, Continued

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.

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
	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
	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_Res message:

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	<p>For the transition period regarding Ship MRS V2 and V3 messages, the following elements are considered:</p> <ul style="list-style-type: none"> 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 “ReportingDateTime”: “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.
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	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 “ReportingDateTime” 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
<i>AISNotificationDetails</i>	0-1	Mandatory if the ship notification is of type AIS. If specified, the <i>MRSNotificationDetails</i> is not allowed.
...		From corresponding <i>MS2SSN_Ship_Res.xml</i> response (if any). See p.138.
<i>MRSNotificationDetails</i>	0-1	Mandatory if the ship notification is of type MRS. If specified, the <i>AISNotificationDetails</i> is not allowed.
...		From corresponding <i>MS2SSN_Ship_Res.xml</i> response (if any). See p.135.

Example of an AIS notification in XML

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

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.

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	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_Req message:

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>	---	---

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	<p>The response to this query (SSN2MS_Ship_List_Res.xml) includes a list of MRS notifications where ReportingDateTime is between StartDateTime and EndDateTime.</p> <p>If data are available, the query provides the information in XML depending on the search criteria (on the basis of “MRSIdentification”, “StartDateTime” and “EndDateTime”).</p> <p>The attribute “SenderCountryId” (optional) can be used to restrict the query to notifications sent by a specific MS.</p>	- MRSIdentification	- SenderCountryId - StartDateTime - EndDateTime	<p>- 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.</p> <p>- Time period cannot be older than [SentAt – 60 days] and cannot be longer than 24 hours.</p> <p>- If only StartDateTime or EndDateTime is provided, then SentAt value is considered for the missing one.</p> <p>- If none is provided, Central SSN considers [StartDateTime = SentAt] and [EndDateTime = SentAt – 24 hours].</p>

SSN2MS_Ship_List_Res.xml message

Introduction

The **SSN2MS_Ship_List_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the list of MRS 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

SSN2MS_Ship_List_Res - Elements				Attributes	Occ
				CSTIdentification	0-1
				MRSVoyageInformation	1
				NextPortOfCall	1
				ETA	0-1
				TotalPersonsOnBoard	1
				AnyDG	1
				MRSShipPosition	1
				Longitude	1
				Latitude	1
				ReportingDateTime	1

Business Rules The following rules apply to the SSN2MS_Ship_List_Res message:

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.
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	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

SSN2MS_Ship_List_Res - Item	Occ	Description
		available
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	Mandatory if MMSI number is lacking.
MMSINumber	0-1	Mandatory 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".
ReportingDateTime	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.

Section 3.7 - Get Alert Notification Details

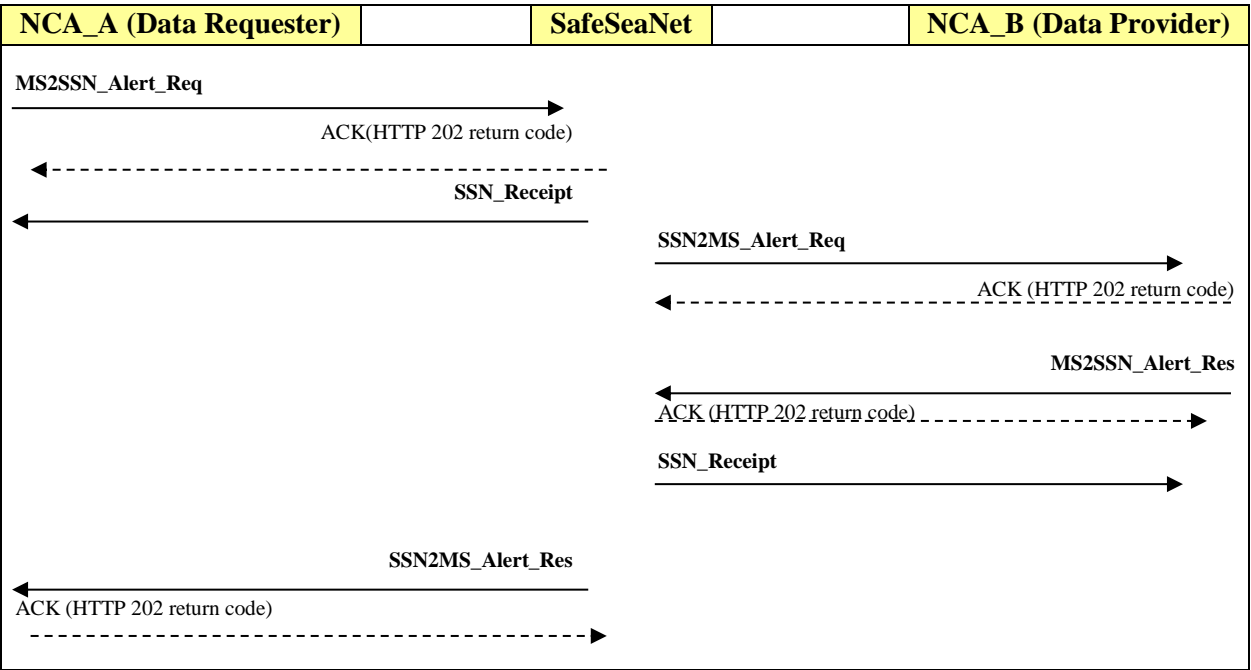
Overview

Introduction A Member State may ask SafeSeaNet to get the Alert notification details for a given incident (identified via a LoCode, incident type and notification date & time). 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 34)

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 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 22 for more details):



Contents This section contains the following topics:

Topic	See Page
MS2SSN_Alert_Req.xml message	152
SSN2MS_Alert_Req.xml message	154
MS2SSN_Alert_Res.xml message	156
SSN2MS_Alert_Res.xml message	169

MS2SSN_Alert_Req.xml message

Introduction

The **MS2SSN_Alert_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the incident notification details about a given incident type.

In order to ensure backward compatibility, the Alert request mechanism implemented in SSN also allows retrieving the incident notification details about a given incident type provided via the *MS2SSN_IncidentReport_Not* notifications. In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

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_Alert_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
	IncidentType	1
	SentAt	0-1
	From	0-1
	IMONumber	0-1
	MMSINumber	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_Alert_Req - Item	Occ	Description
Header	1	Header Node
Version	1	none
TestId	0-1	none
MSRefId	1	The MSRefId must be unique.

MS2SSN_Alert_Req - Item	Occ	Description
SentAt	1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	Body Node
SearchCriteria	1	SearchCriteria element node
IncidentType	1	none
SentAt	0-1	Format “YYYY-MM-DDThh:mm:ssTZD” Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time indicating when the alert has been notified to SafeSeaNet. (At least one of SentAt, From, IMONumber, MMSINumber should exist)
From	0-1	At least one of SentAt, From, IMONumber, MMSINumber should exist.
IMONumber	0-1	Optional - at least one of SentAt, From, IMONumber, MMSINumber should exist.
MMSINumber	0-1	Optional - at least one of SentAt, From, IMONumber, MMSINumber should exist.

Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Alert_Req xmlns="urn:eu.emsa:ssn">
  <Header Version="2.0" MSRefId="568945FGH12462" SentAt="2009-02-12T06:31:21Z" TimeoutValue="60" To="SSN"
    From="NCATEST3" />
  <Body>
    <SearchCriteria IncidentType="Waste" IMONumber="9332511" />
  </Body>
</MS2SSN_Alert_Req>
```

SSN2MS_Alert_Req.xml message

Introduction

The **SSN2MS_Alert_Req.xml** message is sent by SafeSeaNet to the Member State holding the incident notification details (*data provider*) in order to request the incident notification details about a given incident type.

This message is used by SafeSeaNet when receiving a **MS2SSN_Alert_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 22 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_Alert_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
	IncidentType	1
	SentAt	1
	IMONumber	0-1
	MMSINumber	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_Alert_Req - 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).

SSN2MS_Alert_Req - Item	Occ	Description
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	Body Node
<i>SearchCriteria</i>	1	<i>SearchCriteria</i> element node.
IncidentType	1	none
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 alert has been notified to SafeSeaNet.
IMONumber	0-1	none
MMSINumber	0-1	none

Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Alert_Req xmlns="urn:eu.emsa:ssn">
  <Header Version="2.0" SSNRefId="56894512462" SentAt="2009-02-12T06:31:23Z" TimeoutValue="60" To="TEST01"
    From="SSN" />
  - <Body>
    <SearchCriteria IncidentType="Waste" IMONumber="9332511" />
  </Body>
</SSN2MS_Alert_Req>
```

MS2SSN_Alert_Res.xml message

Introduction

The **MS2SSN_Alert_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 incident notification details about a given incident type.

A prerequisite to this message is that the different incident details can be modelled as XML (XML schema) and that all Member States agree upon a common version.

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.

Incidents Details

The description of this XML message includes a first try to model in XML the details of the different incident types. The following table gives a mapping between an incident type and its corresponding element node in the XML message:

Incident Type	Corresponding element node in XML message
SITREP	SITREPAAlertInformation
POLREP	POLREPAAlertInformation
Waste	WasteAlertInformation
Lost/found Containers	LostFoundContainersAlertInformation
Others	OtherAlertInformation

Message description

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

MS2SSN_Alert_Res - Elements		Attributes	Occ
Header		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
	IncidentType		1
	SentAt		1
	IMONumber		0-1
	MMSINumber		0-1

MS2SSN_Alert_Res - Elements		Attributes	Occ
	IncidentDetails		0-1
	WasteAlertInformation		0-1
	VesselIdentification		1
	IMONumber		0-1
	MMSINumber		0-1
	CallSign		0-1
	ShipName		0-1
	Flag		0-1
	NonComplianceInformation		1
	WasteDeliveryDuePort		1
	ETD		1
	InspectionReason		1
	InspectionInformation		0-1
	Deficiencies		1
	ActionTaken		1
	InspectionAuthority		1
	Name		1
	Coordinates		1
	AuthoritiesNotified		0-1
	NextPortOfCall		0-1
	OtherAuthorities		0-1
	SITREPAlertInformation		0-1
	VesselIdentification		0-1
	IMONumber		0-1
	MMSINumber		0-1
	CallSign		0-1
	ShipName		0-1
	VoyageInformation		0-1
	PortofDeparture		0-1
	PortOfDestination		0-1
	TotalPersonsOnBoard		0-1
	ShipPosition		0-1
	Longitude		1
	Latitude		1
	CargoManifest		0-1
	UrlDetails		1
	Url		1
	DocType		1
	SITREPIInformation		1
	SITREPIId		1
	A_CasualtyIdentification		0-1
	Name		0-1
	CallSign		0-1
	Flag		0-1
	B_Position		1
	Longitude		1
	Latitude		1
C_Situation		1	
MessageType		1	
NotifiedAt		1	

MS2SSN_Alert_Res - Elements				Attributes	Occ		
				Nature	1		
				D_NumberOfPersons		0-1	
				E_AssistanceRequired		0-1	
				F_CoordinatingRCC		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	
				POLREPAAlertInformation			
			VesselIdentification				0-1
						IMONumber	0-1
						MMSINumber	0-1
						CallSign	0-1
						ShipName	0-1
			VoyageInformation				0-1
						PortOfDeparture	0-1
						PortOfDestination	0-1
						TotalPersonsOnBoard	0-1
					ShipPosition		0-1
						Longitude	0-1
						Latitude	0-1
			CargoManifest				0-1
					UrlDetails		1
						Url	1
						DocType	1
			POLREPIInformation				1
			POLWARN				0-1
						P1_DateTime	1
						P3_Incident	0-1
						P4_Outflow	0-1
						P5_Acknowledge	0-1
					P2_Position		0-1
						Longitude	1
						Latitude	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			

MS2SSN_Alert_Res - Elements					Attributes	Occ
					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
					LostFoundContainersAlertInformation	0-1
					VesselIdentification	0-1
					IMONumber	0-1
					MMSINumber	0-1
					CallSign	0-1
					ShipName	0-1
					VoyageInformation	0-1
					PortOfDeparture	0-1
					PortOfDestination	0-1
					TotalPersonsOnBoard	0-1
					ShipPosition	0-1
					Longitude	1
					Latitude	1
					CargoManifest	0-1
					UrlDetails	1
					Url	1
					DocType	1
					LostFoundContainersInformation	1
					P1_ReportType	1
					P2_ShipIdentification	1
					IMONumber	0-1
					MMSINumber	0-1

MS2SSN_Alert_Res - Elements				Attributes	Occ
				CallSign	0-1
				ShipName	0-1
				ContainerInformation	1
				P3_ContainerPosition	1
				Longitude	0-1
				Latitude	0-1
				P4_NumberOfContainers	0-1
				P5_TypeOfGoods	0-1
				Containers	1-99
				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
				ContainersDrift	0-1
				DriftCourse	1
				DriftSpeed	1
				OtherAlertInformation	0-1
				VesselIdentification	0-1
				IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
				CargoManifest	0-1
				UrlDetails	0-1
				Url	1
				DocType	1
				ContactDetails	0-1
				LastName	1
				FirstName	1
				LoCode	1
				Phone	0-1
				Fax	0-1
				EMail	0-1
				OtherInformation	1
				Details	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_Alert_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	0-1	Body node (only optional when StatusCode=”InvalidFormat”)
SearchCriteria	1	From incoming <i>SSN2MS_Alert_Req.xml</i> request
IncidentType	1	From incoming <i>SSN2MS_Alert_Req.xml</i> request
SentAt	1	From incoming <i>SSN2MS_Alert_Req.xml</i> request
IMONumber	0-1	From incoming <i>SSN2MS_Alert_Req.xml</i> request
MMSINumber	0-1	From incoming <i>SSN2MS_Alert_Req.xml</i> request
IncidentDetails	0-1	IncidentDetails element node. Not allowed if StatusCode<> OK
WasteAlertInformation	0-1	WasteAlertInformation element node (if incident type = Waste)
...		
SITREPAlertInformation	0-1	SITREPAlertInformation element node (if incident type = SITREP)
...		
POLREPAlertInformation	0-1	POLREPAlertInformation element node (if incident type = POLREP)
...		
LostFoundContainersAlertInformation	0-1	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers)
...		
OtherAlertInformation	0-1	OtherAlertInformation element node (if incident type = Others). For the backward compatibility purpose the following incident types (as defined in the new protocol) will be mapped under “OtherAlertInformation”: - FailedNotificationIncidentInformation, - VTSRulesInfringementIncidentInformation, - BannedShipIncidentInformation, - InsuranceFailureIncidentInformation, - PilotOrPortReportingIncidentInformation, - OtherIncidentInformation
...		

WasteAlertInformation element The following table describes the *WasteAlertInformation* element (returned if incident type = Waste):

MS2SSN_Alert_Res - Item	Occ	Description
WasteAlertInformation	0-1	WasteAlertInformation element node (if incident type = Waste)
VesselIdentification	1	VesselIdentification element node (if ship identified)
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
NonComplianceInformation	1	NonComplianceInformation element node. Used to describe the non-compliance with waste delivery requirements
WasteDeliveryDuePort	1	none
ETD	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 when the ship left port.
InspectionReason	1	none
InspectionInformation	0-1	InspectionInformation element node
Deficiencies	1	none
ActionTaken	1	none
InspectionAuthority	1	InspectionAuthority element node
Name	1	none
Coordinates	1	none
AuthoritiesNotified	0-1	AuthoritiesNotified element node
NextPortOfCall	0-1	Location code of next port of call
OtherAuthorities	0-1	none

SITREPAlertInformation element The following table describes the *SITREPAlertInformation* element (returned if incident type = SITREP):

MS2SSN_Alert_Res - Item	Occ	Description
<i>SITREPAlertInformation</i>	0-1	<i>SITREPAlertInformation</i> element node (if incident type = SITREP)
<i>VesselIdentification</i>	0-1	<i>VesselIdentification</i> element node (if ship identified)
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
<i>VoyageInformation</i>	0-1	<i>VoyageInformation</i> element node (if ship identified)
PortofDeparture	0-1	Location code of port of departure.
PortOfDestination	0-1	Location code of port of destination.
TotalPersonsOnBoard	0-1	99999 if actually unknown. Mandatory if <i>D_NumberOfPersons</i> is not provided.
<i>ShipPosition</i>	0-1	<i>ShipPosition</i> element node
Longitude	1	none
Latitude	1	none
<i>CargoManifest</i>	0-1	<i>CargoManifest</i> element node. Used only to specify the type and the url of the document containing the cargo manifest (if the data provider will store the document on a local web server).
<i>UrlDetails</i>	1	<i>UrlDetails</i> element node.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>SITREPInformation</i>	1	<i>SITREPInformation</i> element node
SITREPID	1	To indicate the nature of message and completeness of sequence of SITREPs concerning the casualty. For backward compatibility reasons this attribute will concatenate the "IncidentID" with the "ReportSequence".
<i>A_CasualtyIdentification</i>	0-1	<i>CasualtyIdentification</i> element node
Name	0-1	none
CallSign	0-1	none
Flag	0-1	none
<i>B_Position</i>	0-1	<i>Position</i> element node. Longitude and Latitude refer to the time of reporting.
Longitude	1	none
Latitude	1	none
<i>C_Situation</i>	1	<i>Situation</i> 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_NumberOfPersons	0-1	99999 if actually unknown. The value 0 (Zero) is allowed in situations where SITREP refers to a vessel that has been fully evacuated. Mandatory if <i>TotalPersonsOnBoard</i> is not provided.
E_AssistanceRequired	0-1	none
F_CoordinatingRCC	1	none
G_CasualtyDescription	0-1	none
H_WeatherOnScene	0-1	none

MS2SSN_Alert_Res - Item	Occ	Description
J_InitialActionsTaken	1	none
K_SearchArea	0-1	none
L_CoordinatingInstructions	0-1	none
M_FuturePlans	0-1	none
N_AdditionalInformation	0-1	none

POLREPA***AlertInformation*** element
The following table describes the *POLREPA****AlertInformation*** element (returned if incident type = POLREP):

MS2SSN_Alert_Res - Item	Occ	Description
<i>POLREPA</i> <i>AlertInformation</i>	0-1	<i>POLREPA</i> <i>AlertInformation</i> element node (if incident type = POLREP)
<i>VesselIdentification</i>	0-1	<i>VesselIdentification</i> element node (if ship identified)
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
<i>VoyageInformation</i>	0-1	<i>VoyageInformation</i> element node (if ship identified)
PortOfDeparture	0-1	Location code of port of departure.
PortOfDestination	0-1	Location code of port of destination.
TotalPersonsOnBoard	0-1	99999 if actually unknown.
<i>ShipPosition</i>	0-1	<i>ShipPosition</i> element node
Longitude	1	none
Latitude	1	none
<i>CargoManifest</i>	0-1	<i>CargoManifest</i> element node. Used only to specify the type and the url of the document containing the cargo manifest (if the <i>data provider</i> will store the document on a local web server).
<i>UriDetails</i>	1	<i>UriDetails</i> element node.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>POLREPInformation</i>	1	<i>POLREPInformation</i> element node. <i>At Least one of the three elements POLWARN, POLINF or POLFAC have to be provided</i>
<i>POLWARN</i>	0-1	<i>POLWARN</i> element node. Initial notice (a first information or a warning of a casualty or the presence of oil slicks or harmful substances)
P1_DateTime	1	none
P3_Incident	0-1	none
P4_Outflow	0-1	none
P5_Acknowledge	0-1	none
<i>P2_Position</i>	0-1	<i>Position</i> element node. Indicates the main position of the incident and longitude in degrees and minutes, and may in addition give the bearing of and the distance from a location known by the receiver.
Longitude	1	none
Latitude	1	none
<i>POLINF</i>	0-1	<i>POLINF</i> element node. Detailed supplementary report

MS2SSN_Alert_Res - Item	Occ	Description
P40_DateTime	0-1	If it varies from POLWARN
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
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
P80_DateTime	0-1	If it varies from POLWARN and POLINF
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

MS2SSN_Alert_Res - Item	Occ	Description
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

LostFoundContainersAlertInformation element The following table describes the *LostFoundContainersAlertInformation* element (returned if incident type = LostFoundContainers):

MS2SSN_Alert_Res - Item	Occ	Description
LostFoundContainersAlertInformation	0-1	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers)
VesselIdentification	0-1	VesselIdentification element node (if ship identified)
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	0-1	VoyageInformation element node (if ship identified)
PortOfDeparture	0-1	Location code of port of departure.
PortOfDestination	0-1	Location code of port of destination.
TotalPersonsOnBoard	0-1	99999 if actually unknown.
ShipPosition	0-1	ShipPosition element node
Longitude	1	none
Latitude	1	none
CargoManifest	0-1	CargoManifest element node. Used only to specify the type and the url of the document containing the cargo manifest (if the <i>data provider</i> will store the document on a local web server).
UrlDetails	1	UrlDetails element node.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
LostFoundContainersInformation	1	LostFoundContainersInformation element node
P1_ReportType	1	If type Loss, then <i>VesselIdentification</i> and <i>P2_ShiporObserverIdentification</i> shall identify the ship which lost Containers or packaged goods; If type Observation then the <i>VesselIdentification</i> shall not identify any ship and <i>P2_ShiporObserverIdentification</i> shall identify the ship which has observed the containers or packaged goods adrift (if the observer is not a ship, the attribute <i>other</i> may be used to identify it).

MS2SSN_Alert_Res - Item	Occ	Description
<i>P2_ShipIdentification</i>	1	<i>CasualtyIdentification</i> element node
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
<i>ContainerInformation</i>	1	<i>ContainerInformation</i> element node.
<i>P3_ContainerPosition</i>	1	<i>ContainerPosition</i> element node. Last seen position of container at sea, or last position of ship when the container has presumably been lost
Longitude	1	none
Latitude	1	none
P4_NumberOfContainers	0-1	none
P5_TypeOfGoods	0-1	none
<i>Containers</i>	1-99	<i>Containers</i> element node.
Description	1	none
CargoLeaking	0-1	none
<i>Wind</i>	0-1	<i>Wind</i> element node.
Speed	1	Indicates wind speed in m/sec.
Direction	1	The direction always indicates from where the wind is blowing.
<i>Tide</i>	0-1	<i>Tide</i> 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.
<i>SeaState</i>	0-1	<i>SeaState</i> element node.
WaveHeight	1	none
Visibility	0-1	none
<i>ContainersDrift</i>	0-1	<i>ContainersDrift</i> 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

OtherAlertInformation element The following table describes the *OtherAlertInformation* element (returned if incident type = LostFoundContainers):

MS2SSN_Alert_Res - Item	Occ	Description
<i>OtherAlertInformation</i>	0-1	<i>OtherAlertInformation</i> element node (if incident type = Others)
<i>VesselIdentification</i>	0-1	<i>VesselIdentification</i> element node (if ship identified)
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
<i>CargoManifest</i>	0-1	<i>CargoManifest</i> element node. Used only to specify that the cargo manifest cannot be requested via the corresponding XML message but either via a web server (<i>UrlDetails</i>) or a phone/fax (<i>ContactDetails</i>).
<i>UrlDetails</i>	0-1	<i>UrlDetails</i> element node. Used only to specify the type and the url of the document containing the cargo manifest (if the <i>data provider</i> will store the document on a local web server).
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>ContactDetails</i>	0-1	Element indicating the contact details to obtain the notification details (if the <i>data provider</i> can only provide the information via phone or fax)
LastName	1	none
FirstName	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	0-1	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.
<i>OtherInformation</i>	1	<i>OtherInformation</i> element node
Details	1	Description of the incident (free text)

Example of a Waste incident type

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Alert_Res xmlns="urn:eu.emsa:ssn">
  <Header Version="2.0" MSRefId="ALERT-RES-VESSIDENT-WASTE-XML-32" SSNRefId="2356RTYE56" SentAt="2007-02-12T06:27:24Z" From="NCATEST1" To="SSN" StatusCode="OK" />
  - <Body>
    <SearchCriteria IMONumber="9332511" IncidentType="Waste" SentAt="2007-02-12T06:27:24Z" />
    - <IncidentDetails>
      - <WasteAlertInformation>
        <VesselIdentification CallSign="TEST" IMONumber="9332511" Flag="GR" MMSINumber="232321311" ShipName="TEST" />
        <NonComplianceInformation WasteDeliveryDuePort="ZZUKN" InspectionReason="Waste" ETD="2007-02-01T06:27:24Z" />
        - <InspectionInformation Deficiencies="Toxic Waste" ActionTaken="Patrol">
          <InspectionAuthority Name="OCTP" Coordinates="23111" />
        </InspectionInformation>
        <AuthoritiesNotified NextPortOfCall="GRSAL" OtherAuthorities="WWF" />
      </WasteAlertInformation>
    </IncidentDetails>
  </Body>
</MS2SSN_Alert_Res>
```


SSN2MS_Alert_Res.xml message

Introduction

The **SSN2MS_Alert_Res.xml** message is the final response sent by SafeSeaNet to a Member State requesting the incident notification details about a given incident type (*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.

Structure of the Notification details

Depending on the *data provider* capabilities (see p.22), the following element nodes of the XML message will be returned:

If the <i>data provider</i> ...	Then the XML message contains the following nodes...
is able to talk XML with SafeSeaNet	... <IncidentDetails...> < <i>SITREPAlertInformation</i> .../> or < <i>POLREPAlertInformation</i> .../> or < <i>WasteAlertInformation</i> .../> or < <i>LostFoundContainersAlertInformation</i> .../> or < <i>OtherAlertInformation</i> .../> or </IncidentDetails...> ...
can only provide notification details as downloadable files	... <IncidentDetails...> < <i>Base64Details</i> .../> </IncidentDetails...> ...
is only accessible via phone/fax/email	... <IncidentDetails...> < <i>ContactDetails</i> .../> </IncidentDetails...> ...

Continued on next page

SSN2MS_Alert_Res.xml message, Continued

Message description

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

SSN2MS_Alert_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
	IncidentType		1
	SentAt		0-1
	From		0-1
	IMONumber		0-1
	MMSINumber		0-1
	VesselIdentification		0-1
	IMONumber		0-1
	MMSINumber		0-1
	CallSign		0-1
	ShipName		0-1
	Flag		0-1
	ContactIdentification		0-1
	MaritimeAuthority		1
	LoCode		1
	Phone		1
	Fax		1
	EMail		0-1
	IncidentDetails		0-1
	SentAt		1
	From		1
	WasteAlertInformation		0-1
	...		
	SITREPAAlertInformation		0-1
	...		
	POLREPAAlertInformation		0-1
	...		
	LostFoundContainersAlertInformation		0-1
	...		
	OtherAlertInformation		0-1
	...		
	ContactDetails		0-1
	LastName		0-1
	FirstName		0-1
	LoCode		1
	Phone		1
	Fax		1
	EMail		0-1

SSN2MS_Alert_Res - Elements			Attributes	Occ
		<i>Base64Details</i>		<i>0-1</i>
			DocType	1
			Base64Content	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_Alert_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	0-1	Body Node (only optional when <i>StatusCode</i>=“InvalidFormat”)
<i>SearchCriteria</i>	1	From original <i>MS2SSN_Alert_Req.xml</i> request
IncidentType	1	From original <i>MS2SSN_Alert_Req.xml</i> request
SentAt	0-1	From original <i>MS2SSN_Alert_Req.xml</i> request
From	0-1	From original <i>MS2SSN_Alert_Req.xml</i> request
IMONumber	0-1	From original <i>MS2SSN_Alert_Req.xml</i> request
MMSINumber	0-1	From original <i>MS2SSN_Alert_Req.xml</i> request
<i>VesselIdentification</i>	0-1	<i>VesselIdentification</i> element node. Mandatory if vessel identified at Incident notification. Not allowed if <i>StatusCode</i><> OK
IMONumber	0-1	Mandatory if <i>MMSINumber</i> not given.
MMSINumber	0-1	Mandatory if <i>IMONumber</i> not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
<i>ContactIdentification</i>	0-1	<i>ContactDetails</i> element node. Mandatory if vessel not identified at Incident notification. Not allowed if <i>StatusCode</i><> OK
MaritimeAuthority	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.

SSN2MS_Alert_Res - Item	Occ	Description
EMail	0-1	Email address of the contact person.
IncidentDetails	0-1	IncidentDetails element node. Not allowed if Status Code <> OK
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 incident has been notified to SafeSeaNet.
From	1	none
WasteAlertInformation	0-1	WasteAlertInformation element node (if incident type = Waste). From incoming <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
...		From corresponding <i>MS2SSN_Alert_Res.xml</i> response (if any)
SITREPAAlertInformation	0-1	SITREPAAlertInformation element node (if incident type = SITREP). From incoming <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
...		From corresponding <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
POLREPAAlertInformation	0-1	POLREPAAlertInformation element node (if incident type = POLREP). From incoming <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
...		From corresponding <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
LostFoundContainersAlertInformation	0-1	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers). From incoming <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
...		From corresponding <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
OtherAlertInformation	0-1	OtherAlertInformation element node (if incident type = Others). From incoming <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any) For the backward compatibility purpose the following incident types (as defined in the new protocol) will be mapped under “OtherAlertInformation”: - FailedNotificationIncidentInformation, - VTSRulesInfringementIncidentInformation, - BannedShipIncidentInformation, - InsuranceFailureIncidentInformation, - PilotOrPortReportingIncidentInformation, - OtherIncidentInformation
...		From corresponding <i>MS2SSN_Alert_Res.xml</i> response or <i>MS2SSN_IncidentDetail_Not</i> (if any)
ContactDetails	0-1	ContactDetails element. Mandatory when the data provider can only be reached by phone/fax/email (see p. 22)
LastName	0-1	none
FirstName	0-1	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.

SSN2MS_Alert_Res - Item	Occ	Description
Email	0-1	Email address of the contact person.
<i>Base64Details</i>	0-1	<i>Base64Details</i> element. Mandatory when the data provider can only provide incident details as downloadable files (see p.22)
DocType	1	Extensions are case insensitive
Base64Content	1	Base64-encoded characters of the notification details downloaded by SafeSeaNet.

Examples

The following example illustrates the details of a Waste alert in XML format:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Alert_Res xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="ZDFGH53263" SSNRefId="2356RTYE545645" SentAt="2007-02-12T06:28:21Z"
    From="NCATEST1" To="SSN" StatusCode="OK" />
  <Body>
    <SearchCriteria IMONumber="9332511" IncidentType="Waste" />
    <VesselIdentification CallSign="TEST" IMONumber="9332511" Flag="GR" MMSINumber="232321311"
      ShipName="TEST" />
    <IncidentDetails SentAt="2007-02-12T06:27:24Z" From="NCATEST1">
      <WasteAlertInformation>
        <VesselIdentification CallSign="TEST" IMONumber="9332511" Flag="GR" MMSINumber="232321311"
          ShipName="TEST" />
        <NonComplianceInformation WasteDeliveryDuePort="ZZUKN" InspectionReason="Waste" ETD="2007-02-
          01T06:27:24Z" />
        <InspectionInformation Deficiencies="Toxic Waste" ActionTaken="Patrol">
          <InspectionAuthority Name="OCTP" Coordinates="23111" />
        </InspectionInformation>
        <AuthoritiesNotified NextPortOfCall="GRSAL" OtherAuthorities="WWF" />
      </WasteAlertInformation>
    </IncidentDetails>
  </Body>
</SSN2MS_Alert_Res>
```

The following example illustrates a Waste alert which details are available as a Word document. To recover the original Word document, the *data requester* must base64-decode (see p.56 for more details) the stream of characters provided in the *Base64Content* attribute:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Alert_Res xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="ZDFGH53263" SSNRefId="2356RTYE545645" SentAt="2007-02-12T06:28:21Z"
    From="NCATEST1" To="SSN" StatusCode="OK" />
  <Body>
    <SearchCriteria IMONumber="9332511" IncidentType="Waste" />
    <VesselIdentification CallSign="TEST" IMONumber="9332511" Flag="GR" MMSINumber="232321311"
      ShipName="TEST" />
    <IncidentDetails SentAt="2007-02-12T06:27:24Z" From="NCATEST1">
      <Base64Details DocType="XML"
        Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiB1bmNvZGluZz0iVVRGLTgiPz4NCjxyZXN1bHQtc2V0Pg0"
      </Base64Details>
    </IncidentDetails>
  </Body>
</SSN2MS_Alert_Res>
```

Section 3.8 - 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).

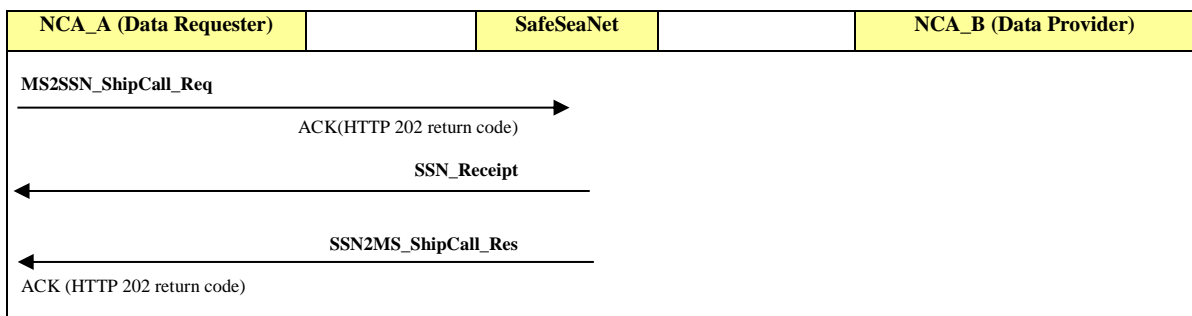
This service is implemented by exchanging XML messages between the *data requester*, the Central SafeSeaNet System and, in case of request for Hazmat, Waste and Security detailed information, the *data provider*.

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

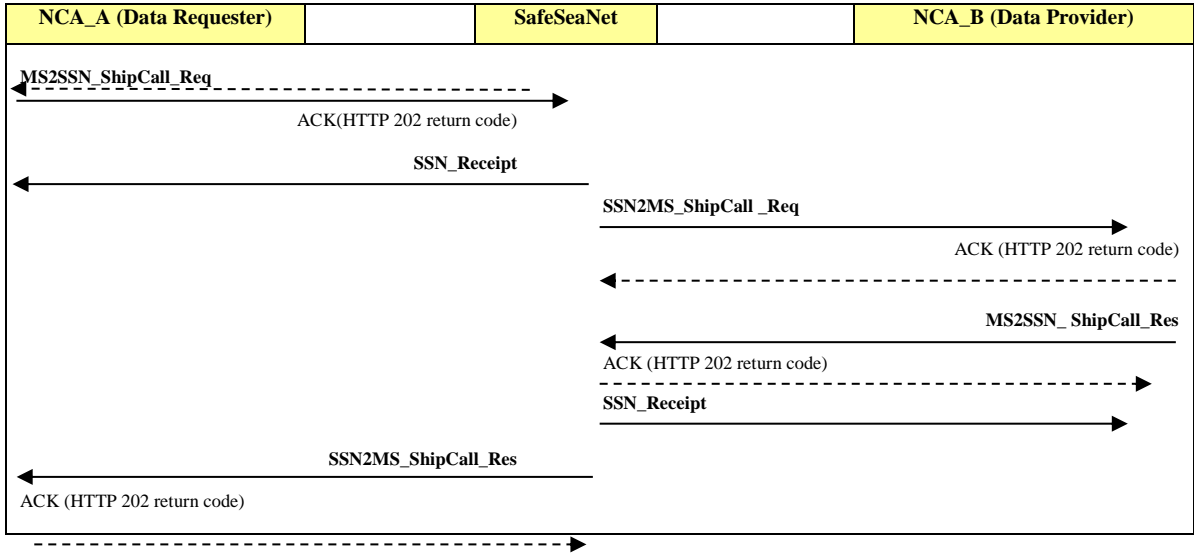
General flow of the XML messages

The following figures outline the expected asynchronous flows 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
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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		Version	1
		TestId	0-1
		MSRefId	1
		SentAt	1
		TimeoutValue	1
		From	1
		To	1
Body			1
	RequiredResponseCriteria		1
	ShipCallResp	GetDetails	1
		GetHazmat	0-1
		GetWaste	0-1
		GetSecurity	0-1
	SearchCriteria		1
	TimePeriodCriteria	StartDateTime	0-1
		EndDateTime	0-1
	ShipIdentificationCriteria	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_Req message:

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	<ul style="list-style-type: none"> - May be used depending on the type of query (value of GetDetails). See table 1 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 the notification 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	<ul style="list-style-type: none"> - May be used depending on the type of query (value of GetDetails). See table 1 below. - Use “WasteSummary” if response should be limited to information from notifications as stored in SSN - Use “WasteDetails” if response should provide detailed information from the notification of waste and cargo residues obtained from the relevant MS. - If not provided but required for the type of query, “WasteSummary” will be considered.
GetSecurity	0-1	<ul style="list-style-type: none"> - May be used depending on the type of query (value of GetDetails). See table 1 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.
<i>SearchCriteria</i>	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 1 below.
<i>TimePeriodCriteria</i>	0-1	
StartDateTime	0-1	
EndDateTime	0-1	
<i>ShipIdentificationCriteria</i>	0-1	
IMONumber	0-1	
MMSINumber	0-1	
<i>PortOfCallIdentificationCriteria</i>	0-1	
PortOfCall	1	
<i>ShipCallIdentificationCriteria</i>	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)	Central SSN will provide the ship call: - Without ATAPortOfCall, and - With ETAToPortOfCall after and closest to StartDateTime.	- 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)	Central SSN will provide the ship call: - With ATAPortOfCall before and closest to StartDateTime, and - With ATDPortOfCall, if available, after StartDateTime. Hazmat 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
MostRecentDepartureOfSelectedShip	IMONumber or MMSINumber (StartDateTime) (GetHazmat) (GetWaste) (GetSecurity)	Central SSN will provide the ship call with ATDPortOfCall before and closest to StartDateTime. Hazmat 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 ATAPortOfCall within the time period defined by StartDateTime and EndDateime. 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 departure from the port.	- IMONumber or MMSINumber must be provided. - StartDateime and EndDateime 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 StartDateime or EndDateime 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 50. - If StartDateime or EndDateime is provided, then NumberOfCalls is not considered.

Value of GetDetails (Type of query)	Parameters & Options Optional parameters are in brackets ()	Result of query	Business rules on parameters
ExpectedShipCallsAtEU Port	PortOfCall (StartDateTime) (EndDateTime) (NumberOfCalls)	<p>Central SSN will provide the list of ship calls:</p> <ul style="list-style-type: none"> - With ETAToPortOfCall within the time period defined by StartDateTime and EndDateime, and - Without ATAPortOfCall. <p>If no time period is defined, Central SSN will provide the list of [NumberOfCalls] correlated voyages:</p> <ul style="list-style-type: none"> - With ETAToPortOfCall after SentAt, and - Without ATAPortOfCall. <p>Hazmat information in results is as valid before arrival to the port.</p>	<ul style="list-style-type: none"> - PortOfCall must be provided. - PortOfCall = “ZZUKN” is not allowed. - StartDateime and EndDateime 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 StartDateime or EndDateime 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 50. - If StartDateime or EndDateime is provided, then NumberOfCalls is not considered.
CurrentShipCallsAtEU Port	PortOfCall (StartDateTime)	<p>Central SSN will provide the list of ship calls</p> <ul style="list-style-type: none"> - With PortOfCall = defined PortOfCall, and - With ATAPortOfCall after StartDateime, and - Without ATDPortOfCall. <p>Hazmat information in results is as reported before departure from the port.</p>	<ul style="list-style-type: none"> - PortOfCall must be provided. - PortOfCall = “ZZUKN” is not allowed. - StartDateime must be between [SentAt – 30 days] and [SentAt]. - If StartDateime is not provided, [SentAt – 30 days] is considered.
CompletedShipCallsAt EU Port	PortOfCall (StartDateTime)	<p>Central SSN will provide the list of ship calls:</p> <ul style="list-style-type: none"> - With PortOfCall = defined PortOfCall, and - With ATDPortOfCall after StartDateime. <p>Hazmat information in results is as reported before departure from the port.</p>	<ul style="list-style-type: none"> - PortOfCall must be provided. - PortOfCall = “ZZUKN” is not allowed. - StartDateime must be between [SentAt – 30 days] and [SentAt] - If StartDateime 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 ETAToPortOfCall after 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)	Central SSN will provide the ship call with the specified ShipCallID. Hazmat information in results is as reported before departure from the port.	ShipCallID is mandatory
GetActiveHazmatForSelectedShip	IMONumber or MMSINumber (StartDateTime)	Central SSN will provide the most relevant ship call and 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 (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 (StartDateTime)	Central SSN will provide the most relevant ship calls and associated waste 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

Business rules for the definition of “active hazmat” 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 with Last 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:

SSN2MS_ShipCall_Req.xml message

Introduction

The **SSN2MS_ShipCall_Req.xml** message is sent by SafeSeaNet to the Member State holding the 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
SearchCriteria			1
ShipIdentificationCriteria			0-1
		IMONumber	0-1
		MMSINumber	0-1
		CallSign	0-1
		ShipName	0-1
AdditionalSearchCriteria			0-1
		ShipCallId	1
		GetHazmatType	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	
<i>Source</i>	1	This is the identification of the source of the query
Requestor	1	
<i>RequiredResponseCriteria</i>	1	
<i>ShipCallResp</i>	0-1	
GetHazmat	0-1	If provided, always “HazardDetails”. It means that the response message should include the HAZMAT information of the specific ship call identified by its ShipCallId under 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 ShipCallId under AdditionalSearch Criteria
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 ShipCallId under AdditionalSearch Criteria
<i>SearchCriteria</i>	1	
<i>ShipIdentificationCriteria</i>	0-1	This element is to be considered for information only.
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
<i>AdditionalSearchCriteria</i>	1	
ShipCallId	1	Always provided. This is the reference identifier of the ship call for which details are requested.
GetHazardType	0-1	Provided if GetHazard is quoted. It specifies which Hazard details are requested. Possible values: -HazardTowardsPortOfCall -HazardTowardsNextPort

**Examples of
request
messages**

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

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	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefId	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		1
ProvidedResponseCriteria		1
ShipCallResp	GetHazmat	0-1
	GetWaste	0-1
	GetSecurity	0-1
SearchCriteria		1
ShipIdentificationCriteria	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
AdditionalSearchCriteria		0-1
	ShipCallId	1
	GetHazmatType	0-1
QueryResults		0-1
VesselIdentification	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
	Flag	0-1

MS2SSN_ShipCall_Res - Elements			Attributes	Occ
		VoyageInformation	ShipCallId	1
			LastPort	0-1
			PortOfCall	0-1
			PositionInPortOfCall	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
		DPGItem	PortOfDischarge	0-1
				1-∞
			DGClassification	1
		EmS	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
				0-2
		SubsidiaryRisks	EmSNumber	1
			SubsidiaryRisk	0-5
		TotalQuantityWeightGross		1
			UnitOfMeasurement	1
			GrossQuantity	1
		TotalQuantityWeightNet		0-1
			UnitOfMeasurement	1
			NetQuantity	1
		TransportEquipmentUnit		0-∞

MS2SSN_ShipCall_Res - Elements							Attributes	Occ
							TransUnitId	1
							LocationOnBoard	1
							NoOfPackages	0-1
							QuantityGross	0-1
							UnitOfMeasurement	1
							GrossQuantity	1
							QuantityNet	0-1
							UnitOfMeasurement	1
							NetQuantity	1
							NonTransportEquipmentUnit	0-∞
							LocationOnBoard	1
							NoOfPackages	0-1
							QuantityGross	0-1
							UnitOfMeasurement	1
							GrossQuantity	1
							QuantityNet	0-1
							UnitOfMeasurement	1
							NetQuantity	1
							WasteInformation	0-1
							WasteSummary	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	1
							CurrentSecurityLevel	1
							Agent in port at arrival	0-1
							AgentName	1
							Phone	0-1
							Fax	0-1

MS2SSN_ShipCall_Res - Elements				Attributes	Occ
				EMail	0-1
			<i>SecurityDetails</i>		
				ValidISSC	1
				ReasonForNoValid ISSC	0-1
				ApprovedSecurityPlan	1
				SecurityRelatedMatterToReport	0-1
			<i>Source</i>		1
				ProviderOfLastUpdate	1
				LastUpdateReceivedAt	1
			<i>CSO</i>		1
				FirstName	0-1
				LastName	1
				Phone	0-1
				Fax	0-1
				EMail	0-1
			<i>ISSC</i>		0-1
				ISSCType	1
				IssuerType	0-1
				Issuer	1
				ExpiryDate	1
			<i>PreviousCallAtPortFacility</i>		0-∞
				Port	1
				DateOfArrival	1
				DateOfDeparture	1
				PortFacility	1
				SecurityLevel	1
				SpecialOrAdditionalSecurityMeasures	0-1
			<i>ShipToShipActivity</i>		0-∞
				DateFrom	1
				DateTo	1
				Activity	1
				SecurityMeasures	0-1
			<i>Location</i>		1
				LoCode	0-1
				Latitude	0-1
				Longitude	0-1
				LocationName	0-1

Business Rules The following rules apply to the MS2SSN_ShipCall_Req message:

No.	General Rule applicable to the MS2SSN_ShipCall_Res message
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_ShipCall_Req.xml message
SentAt	1	
From	1	
To	1	
StatusCode	1	
StatusMessage	1	
Body	0-1	Mandatory unless StatusCode="InvalidFormat"
<i>ProvidedResponseCriteria</i>	1	It defines the query as received from SSN. Content should be as in the SSN2MS_ShipCall_Req.xml message
ShipCallResp	0-1	
GetHazmat	0-1	
GetWaste	0-1	
GetSecurity	0-1	
<i>SearchCriteria</i>	1	
<i>ShipIdentificationCriteria</i>	0-1	
IMONumber	0-1	
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
<i>AdditionalSearchCriteria</i>	0-1	
ShipCallId	1	
GetHazmatType	0-1	
<i>QueryResults</i>	0-1	<ul style="list-style-type: none"> - 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.
<i>VesselIdentification</i>	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	
<i>VoyageInformation</i>	1	Values in this elements should be the latest update registered in NCA database for the PortPlus notification identified by the ShipCallId

MS2SSN_ShipCall_Res - Item	Occ	Description
ShipCallId	1	
LastPort	0-1	
PortOfCall	0-1	
PositionInPortOfCall	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	Latest Hazmat information registered in the NCA database for this ShipCallId.
HazmatSummary	0-1	
INFShipClass	0-1	
DG	0-99	
DGClassification	1	
HazmatDetails	1	To be provided if GetHazmat = “HazmatDetails”
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	
PortOfDischarge	0-1	
DPGItem	1-∞	
DGClassification	1	Recommendation: Depending on the DGClassification (IMO Code) certain DPGItems might be applicable. Please refer to table in Annex C.
TextualReference	1	
IMOHazardClass	0-1	Mandatory if DGClassification=”IMDG” or “IGC”
UNNumber	0-1	Mandatory if DGClassification=”IMDG” or “IGC”
PackingGroup	0-1	
FlashPoint	0-5	
MarpolCode	0-1	
PackageType	0-1	

MS2SSN_ShipCall_Res - Item	Occ	Description
TotalNrOfPackages	0-1	
AdditionalInformation	0-1	
EmS	0-2	
EmSNumber	1	
SubsidiaryRisks	0-5	
SubsidiaryRisk	1	
TotalQuantityWeightGross	0-1	
UnitOfMeasurement	1	
GrossQuantity	1	
TotalQuantityWeightNet	0-1	
UnitOfMeasurement	1	
NetQuantity	1	
TransportEquipmentUnit	0-∞	
TransUnitId	1	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if <i>QuantityNet</i> not present.
UnitOfMeasurement	1	
GrossQuantity	1	
QuantityNet	0-1	Mandatory if <i>QuantityGross</i> not present.
UnitOfMeasurement	1	
NetQuantity	1	
NonTransportEquipmentUnit	0-∞	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if <i>WeightNet</i> not present.
UnitOfMeasurement	1	
GrossQuantity	1	
QuantityNet	0-1	Mandatory if <i>WeightGross</i> not present.
UnitOfMeasurement	1	
NetQuantity	1	
WasteInformation	0-1	Latest Waste information registered in the NCA database for this ShipCallId.
WasteSummary	1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
WasteDetails		To be provided if GetWaste = "WasteDetails"
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	Mandatory if WasteDeliveryStatus = "Some" or "None"

MS2SSN_ShipCall_Res - Item	Occ	Description
WasteType	1	
WasteCode	1	
WasteDescription	0-1	Recommendation: should be provided for some WasteCode as specified in the table in Annex B (indicated in the column “Free text needed” with “X”)
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.
SecuritySummary	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	
EEmail	0-1	
SecurityDetails	1	To be provided if GetSecurity = “SecurityDetails”
ValidISSC	1	
ReasonForNoValid ISSC	0-1	Mandatory if ValidISSC=”N”
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	
EEmail	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)

MS2SSN_ShipCall_Res - Item	Occ	Description
Port	1	
DateOfArrival	1	
DateOfDeparture	1	
PortFacility	1	
SecurityLevel	1	
SpecialOrAdditionalSecurityMeasures	0-1	
<i>ShipToShipActivity</i>	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	
<i>Location</i>	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	

Examples of response messages

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

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.

SN2MS_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			1	
ProvidedResponseCriteria			1	
	ShipCallResp		0-1	
		GetDetails	1	
		GetHazmat	0-1	
		GetWaste	0-1	
		GetSecurity	0-1	
	SearchCriteria			1
	TimePeriodCriteria		1	
		StartDateTime	0-1	
		EndDateTime	0-1	
	ShipIdentificationCriteria		0-1	
		IMONumber	0-1	
		MMSINumber	0-1	
	PortOfCallIdentificationCriteria		0-1	
		PortOfCall	1	
	ShipCallIdentificationCriteria		0-1	
		ShipCallIID	0-1	
		NumberOfCalls	0-1	
	QueryResults			0-1
PortPlusNotificationList			0-∞	

SN2MS_ShipCall_Res - Elements		Attributes	Occ
	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	0-1
		PositionInPortOfCall	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
		POBVoyageTowardsPortOfCall	1
	ArrivalNotificationDetails		0-1
		ATAPortOfCall	1
		Anchorage	0-1

SN2MS_ShipCall_Res - Elements				Attributes	Occ			
			DepartureNotificationDetails		0-1			
			ATDPortOfCall		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			
			PortPlusNotificationDetails					0-1
					Exemptions			0-1
					ExemptionDetails			1-n
					ExemptionType			1
CompanyName					1			
DateFrom					1			
DateTo					1			
Route					2-∞			
Port					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			
	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				

SN2MS_ShipCall_Res - Elements						Attributes	Occ
						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		0-2
						EmSNumber	1
					SubsidiaryRisks		0-5
						SubsidiaryRisk	1
					TotalQuantityWeightGross		0-1
						UnitOfMeasurement	1
						GrossQuantity	1
					TotalQuantityWeightNet		0-1
						UnitOfMeasurement	1
						NetQuantity	1
					TransportEquipmentUnit		1-∞
						TransUnitId	1
						LocationOnBoard	1
						NoOfPackages	0-1
					QuantityGross		0-1
						UnitOfMeasurement	1
						GrossQuantity	1
					QuantityNet		0-1
						UnitOfMeasurement	1
						NetQuantity	1
					NonTransportEquipmentUnit		0-∞
						LocationOnBoard	1
						NoOfPackages	0-1
					QuantityGross		0-1
						UnitOfMeasurement	1
						GrossQuantity	1
					QuantityNet		0-1
						UnitOfMeasurement	1
						NetQuantity	1
				CargoManifest			0-1
				UrlDetails			0-1
						Url	1
						DocType	1
				ContactDetails			0-1
						LastName	0-1
						FirstName	0-1
						LoCode	0-1

SN2MS_ShipCall_Res - Elements				Attributes	Occ
				Phone	1
				Fax	0-1
				E-Mail	0-1
				WasteInformation	0-1
				WasteSummary	
				LastPortDelivered	0-1
				LastPortDeliveredDate	0-1
				WasteDeliveryStatus	1
				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
				SecurityInformation	0-1
				SecuritySummary	
				CurrentSecurityLevel	1
				AgentInPortAtArrival	0-1
				AgentName	1
				Phone	0-1
				Fax	0-1
				E-Mail	0-1
				SecurityDetails	
				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

SN2MS_ShipCall_Res - Elements						Attributes	Occ
						Phone	0-1
						Fax	0-1
						EMail	0-1
					<i>ISSC</i>		0-1
						ISSCType	1
						IssuerType	0-1
						Issuer	1
						ExpiryDate	1
					<i>PreviousCallAtPortFacility</i>		0-∞
						Port	1
						DateOfArrival	1
						DateOfDeparture	1
						PortFacility	1
						SecurityLevel	1
						SpecialOrAdditionalSecurity Measures	0-1
					<i>ShipToShipActivity</i>		0-∞
						DateFrom	1
						DateTo	1
						Activity	1
						SecurityMeasures	0-
				<i>Location</i>			1
						LoCode	0-1
						Latitude	0-1
						Longitude	0-1
						LocationName	0-1

Business Rules The following rules apply to the SSN2MS_ShipCall_Res message:

No.	General Rule applicable to the SSN2MS_ShipCall_Res message
1	<p>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:</p> <ul style="list-style-type: none"> - it applies to the ship, - its route includes 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
<i>Header</i>	1	
Version	1	
TestId	0-1	

SSN2MS_ShipCall_Res - Item	Occ	Description
MSRefId	1	This is the MSRefId as in the MS2SSN_ShipCall_Req.xml message
SSNRefId	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	
SearchCriteria	1	
ShipIdentificationCriteria	0-1	
TimePeriodCriteria	1	
StartDateTime	0-1	
EndDateTime	0-1	
IMONumber	0-1	
MMSINumber	0-1	
PortOfCallIdentificationCriteria	0-1	
PortOfCall	1	
ShipCallIdentificationCriteria	1	
ShipCallID	1	
NumberOfCalls	0-1	
QueryResults	0-1	<ul style="list-style-type: none"> - 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-∞	<ul style="list-style-type: none"> - 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 en time of receipt of the latest PortPlus notification
VesselIdentification	1	
IMONumber	0-1	

SSN2MS_ShipCall_Res - Item	Occ	Description
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
Flag	0-1	
<i>VoyageInformation</i>	1	
ShipCallId	1	
LastPort	0-1	
PortOfCall	1	
PositionInPortOfCall	0-1	
PortFacility	0-1	
ETDFromLastPort	0-1	
ETAToPortOfCall	0-1	
ETDFromPortOfCall	0-1	
NextPort	0-1	
ETAToNextPort	0-1	
BriefCargoDescription	0-1	
<i>PurposeOfCall</i>	0-9	
PurposeOfCall	1	
<i>VesselDetails</i>	0-1	
GrossTonnage	0-1	
ShipType	0-1	
<i>InmarsatCallNumber</i>	0-5	
Inmarsat	1	
<i>CertificateOfRegistry</i>	0-1	
IssueDate	0-1	
CertificateNumber	0-1	
<i>PortOfRegistry</i>	0-1	
LoCode	0-1	
LocationName	0-1	
<i>Company</i>	0-1	
CompanyName	0-1	
IMOCompanyNr	0-1	
<i>PreArrival3DaysNotification Details</i>	0-1	
PossibleAnchorage	0-1	
PlannedOperations	0-1	
PlannedWorks	0-1	
ShipConfiguration	0-1	
CargoVolumeNature	0-1	
ConditionCargoBallastTanks	0-1	

SSN2MS_ShipCall_Res - Item	Occ	Description
<i>PreArrival24HoursNotification Details</i>	0-1	
POBVoyageTowardsPortOfCall	1	
<i>ArrivalNotificationDetails</i>	0-1	
ATAPortOfCall	1	
Anchorage	0-1	
<i>DepartureNotificationDetails</i>	0-1	
ATDPortOfCall	1	
POBVoyageTowardsNextPort	0-1	
<i>HazmatConfirmation</i>	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
<i>WasteConfirmation</i>	0-1	
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
<i>SecurityConfirmation</i>	0-1	
CurrentSecurityLevel	1	
<i>Agent in port at arrival</i>	0-1	
AgentName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
<i>PortPlusNotificationDetails</i>	0-1	<ul style="list-style-type: none"> - Provided only if the query included the GetHazmat, GetWaste or GetSecurity attributes. (Query result is a unique ship call) - It includes the detailed or summary Hazmat, Waste and Security information, and information on exemptions.
<i>Exemptions</i>	0-1	This is the details of relevant exemptions recorded for that ship in the Central SSN System (see general business rules above)
<i>ExemptionDetails</i>	1-n	
ExemptionType	1	
CompanyName	1	
DateFrom	1	
DateTo	1	
<i>Route</i>	2-∞	
Port	1	
<i>Authority</i>	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
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	<ul style="list-style-type: none"> - Provided if GetHazmat is included. - If GetHazmat = “HazmatSummary”, this is 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	
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	0-5	
MarpolCode	0-1	
PackageType	0-1	
TotalNrOfPackages	0-1	
AdditionalInformation	0-1	
EmS	0-2	
EmSNumber	1	
SubsidiaryRisks	0-5	

SSN2MS_ShipCall_Res - Item	Occ	Description
SubsidiaryRisk	1	
TotalQuantityWeightGross	0-1	
UnitOfMeasurement	1	
GrossQuantity	1	
TotalQuantityWeightNet	0-1	
UnitOfMeasurement	1	
NetQuantity	1	
TransportEquipmentUnit	1-∞	
TransUnitId	1	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	
UnitOfMeasurement	1	
GrossQuantity	1	
QuantityNet	0-1	
UnitOfMeasurement	1	
NetQuantity	1	
NonTransportEquipmentUnit	0-∞	
LocationOnBoard	1	
NoOfPackages	0-1	
QuantityGross	0-1	Mandatory if <i>QuantityNet</i> not present.
UnitOfMeasurement	1	
GrossQuantity	1	
QuantityNet	0-1	Mandatory if <i>QuantityGross</i> not present.
UnitOfMeasurement	1	
NetQuantity	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.
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 URL to communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details.
DocType	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
ContactDetails	0-1	Mandatory if UriDetails is not provided
LastName	0-1	
FirstName	0-1	
LoCode	0-1	
Phone	1	
Fax	0-1	
EMail	0-1	
WasteInformation	0-1	<ul style="list-style-type: none"> - 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		
LastPortDelivered	0-1	
LastPortDeliveredDate	0-1	
WasteDeliveryStatus	1	
WasteDetails		Provided if GetWaste = “WasteDetails”.
Source	1	
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
ShipCallID	1	
WasteItem	1-∞	
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	<ul style="list-style-type: none"> - 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		
CurrentSecurityLevel	1	

SSN2MS_ShipCall_Res - Item	Occ	Description
<i>AgentInPortAtArrival</i>	0-1	
AgentName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
<i>SecurityDetails</i>		Provided if GetSecurity = “SecurityDetails”.
ValidISSC	1	
ReasonForNoValid ISSC	0-1	
ApprovedSecurityPlan	1	
SecurityRelatedMatterToReport	0-1	
<i>Source</i>	1	
ProviderOfLastUpdate	1	
LastUpdateReceivedAt	1	
ShipCallID	1	
<i>CSO</i>	1	
FirstName	0-1	
LastName	1	
Phone	0-1	
Fax	0-1	
EMail	0-1	
<i>ISSC</i>	0-1	
ISSCType	1	
IssuerType	0-1	
Issuer	1	
ExpiryDate	1	
<i>PreviousCallAtPortFacility</i>	0-∞	
Port	1	
DateOfArrival	1	
DateOfDeparture	1	
PortFacility	1	
SecurityLevel	1	
SpecialOrAdditionalSecurityMeasures	0-1	
<i>ShipToShipActivity</i>	0-∞	
DateFrom	1	
DateTo	1	
Activity	1	
SecurityMeasures	0-1	
<i>Location</i>	1	
LoCode	0-1	
Latitude	0-1	
Longitude	0-1	
LocationName	0-1	

Examples of request messages

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

Section 3.9 - Get Incident Report Notification Details

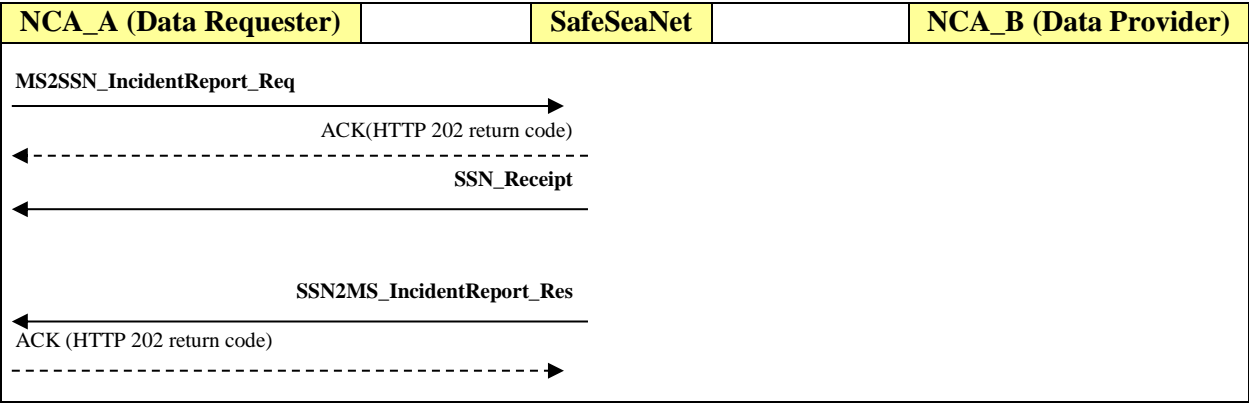
Overview

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 34)

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 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_IncidnetDetail_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 port notification details about a given vessel.

In order to ensure backward compatibility, the IncidentDetail request mechanism implemented in SSN also allows retrieving the incident notification details about a given incident type provided via the *MS2SSN_Alert_Not* notifications given that the *IncidentDetails* reported in the *MS2SSN_Alert_Not* sent by the data provider are in *XML* or *UrlDetails* format and can be retrieved by SSN within the *Timeout* values defined by the data requestor.

In case the details are not retrieved within the timeout parameter value, the *SSN2MS_IncidentReport_Res* message will include under the element node “*ProvidedIncidentdetails*” only the original *MS2SSN_Alert_Not* data consisting of the incident type and reported vessel or reporting authority.

In case the details are available in *ContactDetails* format they will be mapped to the “*AuthorityReportingIncident*” element node of the *SSN2MS_IncidentReport_Res* message.

In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

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 2 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		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

MS2SSN_IncidentReport_Req - Elements		Attributes	Occ
		IncidentID	0-1
		<i>IncidentSelectionType</i>	0-N ³
		Type	1
		<i>ShipIdentificationCriteria</i>	<i>0-1</i>
		IMONumber	0-1
		MMSINumber	0-1
		CallSign	0-1
		ShipName	0-1
		Flag	0-1
		IRNumber_FishingVessel	0-1
		<i>TimePeriodCriteria</i>	<i>0-1</i>
		StartDateTime	1
		EndDateTime	1
		<i>GeographicCriteria</i>	<i>0-1</i>
		PortOfDepartureQuotedInIR	0-1
		PortOfDestinationQuotedInIR	0-1

Table 2 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

³ N equals to the number of Incident Types

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
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"=SentAt, "StartDateTime"=SentAt-15 days)	"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
4	GetSpecificIR	Data related to the specific IR as identified by "IncidentID". The query provides full details	"IncidentID"	none	Results are limited to 5 years before SentAt

Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <ssn:MS2SSN_IncidentReport_Req xmlns:ssn="urn:eu.emsa.ssn">
  <ssn:Header From="testUser01" MSRefId="MS2SSN_Inc_Report_Req_01" SentAt="2012-08-31T12:00:00"
    TimeoutValue="60" To="SSN" Version="2.0" />
  <ssn:Body>
    <ssn:IRQueryCriteria>
      <ssn:TypeOfQuery GetIRInformation="AllIRsOfSelectedShip" />
      <ssn:IncidentSelectionCriteria IncidentID="IncId01">
        <ssn:IncidentSelectionType Type="Waste" />
      </ssn:IncidentSelectionCriteria>
      <ssn:ShipIdentificationCriteria ShipName="HAMMOUDI J" />
      <ssn:TimePeriodCriteria EndDateime="2012-08-29T12:00:00" StartDateime="2012-08-31T23:00:00" />
      <ssn:GeographicCriteria PortOfDepartureQuotedInIR="GRPIR" PortOfDestinationQuotedInIR="GRSAL" />
    </ssn:IRQueryCriteria>
  </ssn:Body>
</ssn: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				
					Describe Vessel	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
						E-Mail	0-1
						<i>ShipPositionAtTimeOfIncident</i>	<i>0-1</i>
						<i>GeoCoordinates</i>	<i>0-1</i>
						Longitude	1
						Latitude	1
						<i>Area</i>	<i>0-1</i>
						GeographicalArea	1
						<i>BearingDistance</i>	<i>0-1</i>
						Bearing	1
						Distance	1
						Mark	1
						<i>ShipPositionAtTimeOfReporting</i>	<i>0-1</i>
						<i>GeoCoordinates</i>	<i>0-1</i>
						Longitude	1
						Latitude	1
						<i>Area</i>	<i>0-1</i>
						GeographicalArea	1
						<i>BearingDistance</i>	<i>0-1</i>
						Bearing	1
						Distance	1
						Mark	1
						<i>AuthorityReportingIncident</i>	<i>0-1</i>
						<i>SSNUserIdentifier</i>	0-1
						SSNUserId	1
						<i>IdentificationOfAuthority</i>	0-1
						AuthorityName	1
						LoCode	1
						Phone	1
						Fax	1
						E-Mail	0-1
						<i>IncidentDetailsDocument</i>	<i>0-1</i>
						<i>Base64Details</i>	<i>1</i>
						DocType	1
						Base64Content	1
						<i>IncidentDetails</i>	<i>0-1</i>
						<i>WasteIncidentInformation</i>	<i>0-1</i>
						<i>NonComplianceInformation</i>	<i>1</i>
						WasteDeliveryDuePort	1
						ETD	1
						InspectionReason	1
						<i>InspectionInformation</i>	<i>0-1</i>

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_Photos		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
							<i>ObjectDrift</i>	<i>0-1</i>
							DriftCourse	1
							DriftSpeed	1
							<i>FailedNotificationIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<i>VTSRulesInfringementIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<i>BannedShipIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<i>InsuranceFailureIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<i>PilotOrPortReportIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<i>OtherIncidentInformation</i>	<i>0-1</i>
							<i>Description</i>	<i>1</i>
							<TBD>	
							<TBD>	-
							FeedbackList	0-1
							<i>FeedbackInformation</i>	<i>1-99</i>
							<i>FeedbackIdentification</i>	<i>1</i>
							FeedbackID	1
							IncidentID	1
							<i>FeedbackDistribution</i>	<i>0-1</i>
							FeedbackDistributionToFlagState	0-1
							FeedbackRecipient	0-99
							RecipientCountry	1
							<i>AuthorityReportingAction</i>	<i>1</i>
							<i>SSNUserIdentifier</i>	<i>0-1</i>
							SSNUserID	1
							<i>IdentificationOfAuthority</i>	<i>0-1</i>
							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. <i>Proposed structure: 2 letter country code + operational number at national level.</i> 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
<i>IRVesselIdentificationList</i>	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
<i>IRVesselIdentification</i>	1-99	
<i>IRVessel_IdentityVerified</i>	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.
<i>IRVessel_IdentityNotFullyVerified</i>	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	none
<i>IRVoyageInformation</i>	0-1	VoyageInformation element node.
PortofDeparture	0-1	none
PortOfDestination	0-1	none
TotalPersonsOnBoard	0-1	none
<i>CargoManifest</i>	0-1	CargoManifest element node
<i>UrlDetails</i>	0-1	UrlDetails element node. Mandatory if ContactDetails not provided
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
<i>ContactDetails</i>	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.
<i>ShipPositionAtTimeOfIncident</i>	<i>0-1</i>	ShipPositionAtTimeOfIncident element node. Mandatory for Incident type SITREP with vessel identified
GeoCoordinates	<i>0-1</i>	GeoCoordinates element node. Mandatory if Area or BearingDistance not provided
Longitude	1	none
Latitude	1	none
Area	<i>0-1</i>	Area element node. Mandatory if GeoCoordinates or BearingDistance not provided
GeographicalArea	1	none
BearingDistance	<i>0-1</i>	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
<i>ShipPositionAtTimeOfReporting</i>	<i>0-1</i>	ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTimeOfIncident
GeoCoordinates	<i>0-1</i>	GeoCoordinates element node. Mandatory if Area or BearingDistance not provided
Longitude	1	none
Latitude	1	none
Area	<i>0-1</i>	Area element node. Mandatory if GeoCoordinates or BearingDistance not provided
GeographicalArea	1	none
BearingDistance	<i>0-1</i>	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
<i>AuthorityReportingIncident</i>	<i>0-1</i>	Authority reporting incident element. Not allowed if StatusCode <> OK. Either SSNUserId or the AuthorityName and contact details are defined. For backward compatibility if an Alert notification provides the contact details they are mapped to the Authority name, LoCode, Phone, Fax and Email attributes.
<i>SSNUserIdentifier</i>	0-1	none
SSNUserID	1	none

SSN2MS_IncidentReport_Res - Item	Occ	Description
<i>IdentificationOfAuthority</i>	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.
<i>IncidentDetailsDocument</i>	<i>0-1</i>	IncidentDetailsDocument element node.
<i>Base64Details</i>	<i>1</i>	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.
<i>IncidentDetails</i>	<i>0-1</i>	IncidentDetails element node. Not allowed if StatusCode <> OK
<u>WasteIncidentInformation</u>	<i>0-1</i>	WasteAlertInformation element node (if incident type = Waste). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>...</u>		From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>SITREPIncidentInformation</u>	<i>0-1</i>	SITREPAAlertInformation element node (if incident type = SITREP). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>...</u>		From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>POLREPIncidentInformation</u>	<i>0-1</i>	POLREPAAlertInformation element node (if incident type = POLREP). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>...</u>		From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>LostFoundObjectIncidentInformation</u>	<i>0-1</i>	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>...</u>		From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
<u>FailedNotificationIncidentInformation</u>	<i>0-1</i>	FailedNotificationIncidentInformation element node (if incident type = FailedNotificationIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
<u>-</u>		From incoming MS2SSN_IncidentDetail_Not (if any)
<u>VTSRulesInfringementIncidentInformation</u>	<i>0-1</i>	VTSRulesInfringementIncidentInformation element node (if incident type = VTSRulesInfringementIncidentInformation).

SSN2MS_IncidentReport_Res - Item	Occ	Description
		From incoming MS2SSN_IncidentDetail_Not (if any)
-		From incoming MS2SSN_IncidentDetail_Not (if any)
<u>BannedShipIncidentInformation</u>	0-1	BannedShipIncidentInformation element node (if incident type = BannedShipIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-		From incoming MS2SSN_IncidentDetail_Not (if any)
<u>InsuranceFailureIncidentInformation</u>	0-1	InsuranceFailureIncidentInformation element node (if incident type = InsuranceFailureIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
...		From incoming MS2SSN_IncidentDetail_Not (if any)
<u>PilotOrPortReportIncidentInformation</u>	0-1	PilotOrPortReportIncidentInformation element node (if incident type = PilotOrPortReportIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
...		From incoming MS2SSN_IncidentDetail_Not (if any)
<u>OtherIncidentInformation</u>	0-1	OtherIncidentInformation element node (if incident type = OtherIncidentInformation or Others). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
...		From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (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.

SSN2MS_IncidentReport_Res - Item	Occ	Description
DocType	1	From original MS2SSNIncidentDetail_Not
Base64Content	1	
<TBD>	-	

Example

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<?xml version="1.0" encoding="UTF-8" ?>
- <ssn:SSN2MS_IncidentReport_Res xmlns:ssn="urn:eu.emsa.ssn">
  <ssn:Header From="SSN" MSRefId="MS2SSN_Inc_Report_Req_01" SSNRefId="SSN2MS_Inc_Report_Res_01"
    SentAt="2012-01-31T12:00:10" StatusCode="OK" StatusMessage="The message processed successfully."
    To="testUser01" Version="2.0" />
  - <ssn:Body>
    - <ssn:IRQueryCriteria>
      <ssn:TypeOfQuery GetIRInformation="AllIRsOfSelectedShip" />
      - <ssn:IncidentSelectionCriteria IncidentID="IncId01">
        <ssn:IncidentSelectionType Type="Waste" />
      </ssn:IncidentSelectionCriteria>
      <ssn:ShipIdentificationCriteria CallSign="HMDOO" IMONumber="7350002" IRNumber_FishingVessel="ABC012345678"
        MMSINumber="445889000" ShipName="HAMMOUDI J" />
      <ssn:TimePeriodCriteria EndDateTime="2012-08-29T12:00:00" StartDateTime="2012-08-31T23:00:00" />
      <ssn:GeographicCriteria PortOfDepartureQuotedInIR="GRPIR" PortOfDestinationQuotedInIR="GRSAL" />
    </ssn:IRQueryCriteria>
    - <ssn:ProvidedIncidentDetails>
      - <ssn:Incidents>
        <ssn:IncidentIdentification IncidentID="IncId01" Type="Waste" />
        <ssn:IRDistributionDetails IRDistributionToFlagState="GR" />
        - <ssn:IRVesselIdentificationList>
          - <ssn:IRVesselIdentification>
            <ssn:IRVesselIdentityVerified CallSign="HMDOO" IMONumber="7350002"
              IRNumber_FishingVessel="ABC012345678" MMSINumber="445889000" ShipName="HAMMOUDI J" />
            <ssn:IRVoyageInformation PortOfDeparture="GRPIR" PortOfDestination="GRSAL"
              TotalPersonsOnBoard="12" />
          </ssn:IRVesselIdentification>
          - <ssn:CargoManifest>
            <ssn:ContactDetails Email="Safe-Sea-Net@emsa.europa.eu" Fax="+351211209217"
              FirstName="SafeSeaNet" LastName="EMSA" LoCode="GRPIR" Phone="+351211209415" />
          </ssn:CargoManifest>
          - <ssn:ShipPositionAtTimeIncident>
            <ssn:Area GeographicalArea="North Aegean" />
          </ssn:ShipPositionAtTimeIncident>
          </ssn:IRVesselIdentification>
        </ssn:IRVesselIdentificationList>
        - <ssn:AuthorityReportingIncident>
          <ssn:IdentificationOfAuthority AuthorityName="GR POR AUTH" Fax="2101234567" LoCode="GRPIR"
            Phone="2101234567" />
          </ssn:AuthorityReportingIncident>
        </ssn:IncidentDetails>
        <ssn:OtherIncidentInformation Description="IncidentDescription" />
      </ssn:IncidentDetails>
    </ssn:Incidents>
  </ssn:ProvidedIncidentDetails>
</ssn:Body>
</ssn:SSN2MS_IncidentReport_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_Alert_Res 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
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
Base64Content	base64		Base64-encoded characters of the notification details downloaded by SafeSeaNet.	SSN2MS_Ship_Res SSN2MS_Alert_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
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_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
CargoLeaking	Text	1-20	Yes/No/Not visible Description of Pollution	MS2SSN_Alert_Res SSN2MS_Alert_Res 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	MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			ballast tanks (e.g. full, empty, inerted etc.)	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_ShipCall_Res SSN2MS_ShipCall_Res
Coordinates	Text	1-256	Contact Details of the Inspection Authority (e.g. address, telephone number, e-mail address)" instead of "Co-ordinates of the inspection authority (phone, fax and/or email).	MS2SSN_Alert_Res SSN2MS_Alert_Res
Country	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_Exemption_Not SSN2MS_ShipCall_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_Alert_Res SSN2MS_Alert_Res 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	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			line with other persons on board fields.	
DateFrom	Date		Indicates the date when an activity was initiated.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_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
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_ShipCall_Res SSN2MS_ShipCall_Res
Deficiencies	Text	1-256	Free text entry. Deficiencies found during inspection.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Details	Text	1-512	Free text entry. Description of the incident.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
Direction	Text	1-20	Indicates wind direction in degrees.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Distance	Text	1-20	Indicates distance in nautical miles.	MS2SSN_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_No
DistributionIR_yes_no	ENUM		Distribute Incident Report Yes/ No. Possible value: Y – yes, incident report will be distributed N – no, incident report will not be distributed	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not
DGClassification	ENUM		Attribute contains the information in which IMO Code(s) DG must be declared Values: “ IMDG ”, “ IGC ”, “ IBC ”, “ MARPOL_ANNEX1 ”, “ IMSBC ”	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	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Alert_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			subsequent versions (e.g. XLS, , etc)	
DriftCourse	Text	1-20	Indicates the drift course of pollution in degrees	MS2SSN_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
E_AssistanceRequired	Text	1-20	Free text entry. Type of assistance required	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
EMail	Text	0-50	Email address of the contact person	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
EmSNumber	Text	1-50	Emergency response procedures for ships carrying dangerous goods number.	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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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
ExemptionPreArrival24Hours	ENUM		Indicates whether the scheduled service has an exemption attributed for providing Pre-arrival notifications. Yes/ No status code. Possible value: Y – declares that Exemption is attributed N – declares that no Exemption is attributed	SSN2MS_ShipCall_Res
ExemptionHazmat	ENUM		Indicates whether the scheduled service has an exemption attributed for providing Hazmat notifications. Yes/ No status code. Possible value: Y – declares that Exemption is attributed N – declares that no Exemption is attributed	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 MS and that it is preceded by the 2-letter country code.	MS2SSN_Exemption_Not
ExemptionSecurity	ENUM		Indicates whether the scheduled service has an exemption attributed for providing Ship Security pre-arrival notifications. Yes/ No status code. Possible value: Y – declares that Exemption is attributed N – declares that no Exemption is attributed	SSN2MS_ShipCall_Res
ExemptionType	ENUM		Indicates the type of Exemption granted to a scheduled service. Possible value: Pre-Arrival (Article 4 of Directive 2002/59/EC) Hazmat (Article 13 of Directive 2002/59/EC) Security (Article 6 of Regulation (EC) No 725/2004) Waste (Article 6 of Directive 2000/59/EC)	MS2SSN_Exemption_Not
F_CoordinatingAuthority	Text	1-80	Name of coordinating Authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
F_CoordinatingRCC	Text	1-80	Name of coordinating RCC	MS2SSN_Alert_Res SSN2MS_Alert_Res
Fax	Text	1-20	Fax number (country code included) of the contact person.	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FeedbackID	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
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_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_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_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FlashPoint	Decimal		The temperature in degrees Celsius at which a liquid will give off enough flammable vapour to be ignited. According IMDG Code DG Class 3	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
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_Alert_Res SSN2MS_Alert_Res 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
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) 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	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
			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	
GetHazardType	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: -HazardTowardsPortOfCall -HazardTowardsNextPort	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
GrossQuantity	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

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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
IMOCClass	Text	1-7	IMO class of DG	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-IGC-IMSBC codes) of DPG	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
IMONumber	Text	7	IMO number – IMO Res. A.600 (15)	ALL messages except from SSN_Receipt and SSN2MS_IncidentDetail_Tx_Ack
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: <ul style="list-style-type: none"> ▪ 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
IncidentType	ENUM		Type of the incident notification among the following possible values: - SITREP - POLREP - Waste - LostFoundContainers - Others	MS2SSN_Alert_Req SSN2MS_Alert_Req MS2SSN_Alert_Res SSN2MS_Alert_Res
Inmarsat	Text	1-50	Number indicating the location of the ship by satellite services of Inmarsat	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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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
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 certificate was 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), " RO " (Recognized Organization)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
J_InitialActionsTaken	Text	1-256	Initial actions taken by casualty and RCC	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
K_SearchArea	Text	1-80	Search area as planned by RCC	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_IncidentReport_Res
L_CoordinatingInstructions	Text	1-256	OSC designated, units participating, communications	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
LastName	Text	0-50	Last name of the contact person	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_Res
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_ShipCall_Res SSN2MS_ShipCall_Res
Latitude	Int		Latitude in 1/10000 min. (+/- 90 degrees; North = positive;	MS2SSN_Ship_Not MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			South = negative; 91 = not available) 91° (north) -> 54600000 -90° (south) -> -54000000 0°0'1" (north) -> 167 50°50' (north) -> 30500000	SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_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	The following formats for Stowage cells are recommended: <ul style="list-style-type: none"> ▪ If container vessels as per ISO standard: Bay/Row/Tier in format: <i>BBBRRTT</i>. If Bay number is less than 3 characters it must be filled with leading zeros, e.g. "0340210". ▪ If feeder vessels as per ISO standard: Hatch/Tier/Row in format: <i>HHHTTRR</i>. If hatch number is less than 3 characters it must be filled with leading zeroes. ▪ If ro-ro vessels: Deck/Bay/Row/Tier in format: <i>DDBBBRRTT</i> ▪ If general cargo vessels: 3 to 9 characters, format: <ul style="list-style-type: none"> ▪ firstly 3 characters (mandatory) for the cell number (01, 02, etc. with a further indication: S (starboard), P (Portside) of C (Centre)); ▪ secondly 3 characters (optional) for the indication of the deck level: 	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			<ul style="list-style-type: none"> ○ WED = weather deck ○ TD9 = tween deck 9 ○ ... ○ TD1 = tween deck 1 ○ LOH = lower hold ▪ thirdly 3 characters (optional) for a further indication within a hold, e.g. hatch covers. ▪ If tanker vessel: tank number. 	
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 LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_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_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
M_FuturePlans	Text	1-256	Free text entry.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
MaritimeAuthority	Text	1-50	Name of the Maritime Authority	MS2SSN_Alert_Not SSN2MS_Alert_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		The code values are those defined in MARPOL Annex II. Possible values: "X", "Y", "Z", "OS" and "UNKNOWN"	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
MessageType	ENUM		SITREP Alert Information Situation message type. Supported message type. Possible values are: - Distress - Urgency	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
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	MS2SSN_Ship_Not MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Ship_List_Req SSN2MS_Ship_List_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			<ul style="list-style-type: none"> • GOFREP • GREENPOS • MANCHREP • OUESSREP • SOUNDREP • TRANSREP • WETREP • BAREP <p>The full list will be included in the “MRS Guidelines” and regularly updated when needed.</p> <p>In the SSN2MS_Ship_Res.xml this attribute will report “undefined” in case the notification provided is compliant to SSN v2</p>	
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_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Req MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
MsRefIDofIRupdate	Text	1-36	Reference identifier MsRefID specified by the original caller data provider of the MS2SSNIncidentDetail_Not.	SSN2MS_IncidentDetail_Tx_Ack
N_AdditionalInformation	Text	1-256	Include time SAR operation terminated	MS2SSN_Alert_Res SSN2MS_Alert_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Nature	ENUM		<p>Nature of distress/urgency. Possible values are:</p> <ul style="list-style-type: none"> - Fire - Collision - Medico* - Grounding - Flooding - List - Capsizing - EngineFailure - StructuralFailure - SteeringGearFailure - ElectricalGeneratingSystemFailure - NavigationEquipmentFailure - CommunicationEquipmentFailure - AbandonShip - ShiftingOfCargo - Sinking 	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			<p>- Other</p> <p>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.</p> <p>*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)</p>	
NavigationalStatus	ENUM		<p>One of the following possible values:</p> <ul style="list-style-type: none"> - 0 (under way using engine) - 1 (at anchor) - 2 (not under command) - 3 (restricted manoeuvrability) - 4 (constrained by her draught) - 5 (moored) - 6 (aground) - 7 (engaged in fishing) - 8 (under way sailing) - 9 till 14 (reserved -> should not be used) - 15 (not defined) 	<p>MS2SSN_Ship_Res SSN2MS_Ship_Res</p>
NetQuantity	Decimal	(3)	Net weight of the dangerous goods excluding respectively their packing, and without the equipment used by the carrier	<p>MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res</p>

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			for their transport.	
NextPort	Text	5	This attribute indicates the port of subsequent ship call identified by its 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 total number of packages on all 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_Alert_Res SSN2MS_Alert_Res 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 SSN2MS_IncidentReport_Res
OtherAuthorities	Text	1-80	Other Authorities notified	MS2SSN_Alert_Res SSN2MS_Alert_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	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			UTC.	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/package goods) B. Observation (ship noting the presence of containers/packages goods drifting at sea)	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P3_Incident	Text	1-256	Incident summary	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P4_NumberOfContainers	Int		Number of containers	MS2SSN_Alert_Res SSN2MS_Alert_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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
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 (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).	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_IncidentReport_Res
P5_TypeOfGoods	ENUM		DG/PG : Y/N IMO/UN/IMDG Code Number	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P50_ActionTaken	Text	1-256	Mentions action taken for the disposal of the pollution	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P51_Photos	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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			<ul style="list-style-type: none"> - specified equipment with trained personnel - complete strike teams - personnel with special expertise with indication of country requested	SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
P82_Cost	Text	1-256	Information on cost of delivered assistance to be notified to requesting country.	MS2SSN_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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 of the requesting country or land-based authorities with contact numbers (including telephone, telefax and telex numbers as appropriate) and contact persons.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
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_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
P88_OtherInformation	Text	1-256	Spare for any other relevant requirements or instructions.	MS2SSN_Alert_Res SSN2MS_Alert_Res 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_Alert_Res SSN2MS_Alert_Res 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		Code as appropriate and as defined in IMDG: "I", "II", "III" and "NONE"	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Phone	Text	1-20	Phone number (country code included) of the contact person.	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_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	MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			statutory survey inspections and substantial maintenance and repair work to be carried out whilst in the port or anchorage of destination	SSN2MS_ShipCall_Res
POBVoyageTowardsNextPort	Int		Total number of persons aboard. To be used for notification(s) made along the voyage toward the NextPort. The value 0 (Zero) is not allowed. Note that the type “INT” prohibits the use of dots and commas	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
POBVoyageTowardsPortOfCall 1	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. Note that the type “INT” prohibits the use of dots and commas	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
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
PortDeliveryRemainingWaste	Text	5	Location code of the port where remaining waste will be disposed of.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PortFacility	Text	1-4	Port Facility as defined in ISPS Code The port facility's code as in the IMO GISIS maritime security database	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_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_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PortOfDeparture	Text	5	Location code of port of departure.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included								
				SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res								
PortOfDepartureQuotedInIR	Text	5	Location code of port of departure quoted in an incident report.	MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res								
PortOfDestination	Text	5	Location code of port of destination.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res								
PortOfDestinationQuotedInIR	Text	5	Location code of port of destination quoted in an incident report.	MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res								
PortOfDischarge	Text	5	Identity of the port where the cargo will be discharged from the ship. The port is identified by its 5-digit LOCODE	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res								
PortOfLoading	Text	5	Identify of the port where the cargo was loaded on board the ship. The port is identified by its 5-digit LOCODE	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res								
PositionInPortOfCall	Text	0-50	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 LOCOCODES will be maintained within the SSN EIS LOCODE Database for subsidiary locations. The subsidiary LOCOCODES 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>PositionInPort</td><td>0-1</td><td>0-15</td><td></td></tr></table>	Item	Occ	Len	Description	PositionInPort	0-1	0-15		MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Item	Occ	Len	Description									
PositionInPort	0-1	0-15										

Attribute name	Type	Len	Description and general rules				Message(s) that the attribute is included
			<i>OfCall</i>				
			UN Locode	1	5	UN Locode	
			Fairway section code	0-1	0-5	Port Basin or Port area	
			Terminal code	0-1	0-5	Terminal code	
			Fairway section hectometer	0-1	0-5	Port number or Terminal details	
			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				
PossibleAnchorage	ENUM		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				MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
ProviderOfLastUpdate	Text	3-15	Identifies the data provider of the information (UserID as defined in SafeSeaNet) to the data requestor.				MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
Quantity	Text	1-18	Free text entry. Indicating Quantity.				MS2SSN_Ship_Res SSN2MS_Ship_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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_IncidentReport_Res SSN2MS_IncidentDetail_Tx_Ack
RecipientEmail_Ack	ENUM		OK: receipt acknowledged with status OK. NO: 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. NO: 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	3-15	Identifies the data requestor (UserID as defined in SafeSeaNet) to the data provider.	SSN2MS_ShipCall_Req
ROT	Int		Rate of Turn. Possible values are: <ul style="list-style-type: none"> 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) 	MS2SSN_Ship_Res SSN2MS_Ship_Res
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.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Possible values: " SL1 ", " SL2 " and " SL3 "	
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 3166-1 defining 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
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	MS2SSN_Ship_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			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_Exemption_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_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
SITREPID	Text	1-30	To indicate the nature of message and completeness of sequence of SITREPs concerning the casualty.	MS2SSN_Alert_Res SSN2MS_Alert_Res
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
SpecialOrAdditionalSecurity Measures	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_Alert_Res SSN2MS_Alert_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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 system in 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_Alert_Req SSN2MS_Alert_Res SSN2MS_ShipCall_Res SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
SSNUserID	Text	7-32	A valid SSN unique user Identifier.	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_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_IncidentReport_Res
StatusMessage	Text	0-255	Global status message string	SSN_Receipt MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
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_Alert_Req SSN2MS_Alert_Req MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_IncidentReport_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	0-1	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. 99999 if actually unknown. The value 0 (Zero) is not allowed. Note that the type "INT" prohibits the use of dots and commas	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
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 (OtherIncidentInformation) - FailedNotificationIncidentInformation - VTSRulesInfringementIncidentInformation - BannedShipIncidentInformation - InsuranceFailureIncidentInformation - PilotOrPortReportIncidentInformation	MS2SSN_Alert_Not MS2SSN_Alert_Res SSN2MS_Alert_Res 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) ▪ M3 (Cubic meter)	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
UNNumber	Text	4	UN number of DPG.	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
UpdateMSRefId	UUID	1-36	A reference number identifying the MSRefId of the notification to be updated	MS2SSN_PortPlus_Not MS2SSN_Exemption_Not MS2SSN_IncidentDetail_Not
UpdateStatus	ENUM		<p>Potential values:</p> <ol style="list-style-type: none"> N for a new notification U for an updating notification related to a previous one identified by the UpdateMSRefID attribute. 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. <p>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)</p>	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_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentReport_Res
Url	Uri	20-256	<p>Provides a surrogated URL located at central SSN server masking the original URL provided in the PortPlus Notification of the <i>data provider</i>.</p> <p>The <i>data requestor</i> system may utilise this URL to communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details.</p>	SSN2MS_ShipCall_Res
ValidISSC	ENUM		Indicates if the ship has a valid International Ship Security	MS2SSN_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Certificate (ISSC). This is a yes (Y) / no (N) data element.	SSN2MS_ShipCall_Res
Version	Text	3	SafeSeaNet request current version ('x.x')	ALL messages
Visibility	Text	1-20	Indicates visibility in nautical miles	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
WasteCode	ENUM		Waste type code as defined in Annex B	MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
WasteDeliveryDuePort	Text	5	Location code of the port where waste-delivery was due.	MS2SSN_Alert_Res SSN2MS_Alert_Res 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_ShipCall_Res SSN2MS_ShipCall_Res
WaveHeight	Text	1-20	Indicates the wave height in metres.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res

Annex B

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
1.WASTE OILS		-	
1.1 Sludge		1100	Waste oils - Sludge
1.2 Bilge water		1200	Waste oils - Bilge water
1.3 Others - specify: choose from below: (except: cargo residues)		-	
1.3.1 Used engine oil		1301	Waste oils - Other - Used engine oil
1.3.2 Other - specify in free text field	X	1300	Waste oils - Other
2. GARBAGE		-	
2.1 Food waste		2100	Garbage - Food waste
2.2 Plastic (except: cargo residues)		2200	Garbage - Plastic
2.3 Other - choose from below: (except: cargo residues)		-	
2.3.1 International catering waste		2301	Garbage - Other - International catering waste
2.3.2 Paper products		2302	Garbage - Other - Paper products
2.3.3 Rags		2303	Garbage - Other - Rags
2.3.4 Glass		2304	Garbage - Other - Glass
2.3.5 Metal		2305	Garbage - Other - Metal
2.3.6 Bottles		2306	Garbage - Other - Bottles
2.3.7 Crockery		2307	Garbage - Other - Crockery
2.3.8 Incinerator ashes and clinkers		2308	Garbage - Other - Incinerator ashes and clinkers
2.3.9 Animal carcasses		2309	Garbage - Other - Animal carcasses

Description as in eMS Business Rules document	Free text description needed	Code	Description
2.3.10 Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.) - specify in free text field	X	2310	Garbage - Other - Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.)
2.3.11 Cooking oil		2311	Garbage - Other - Cooking oil
2.3.12 Deck and external surfaces wash water containing cleaning agents or additives harmful to the marine environment		2312	Garbage - Other - Deck and external surfaces wash water containing cleaning agents or additives harmful to the marine environment
2.3.13 Other - specify in free text field	X	2300	Garbage - Other
3. SEWAGE		3000	Sewage
4. CARGO ASSOCIATED WASTE (Marpol Annex V)- specify in free text field (may be estimates)	X	4000	Cargo associated waste
4.1.1 Dunnage, lining or packing material		4101	Cargo associated waste - Marpol Annex V - Dunnage, lining or packing material
4.1.2 Other - specify in free text field	X	4100	Cargo associated waste - Marpol Annex V - Other
5. CARGO RESIDUES - specify in free text field (may be estimates)	X	5000	Cargo residues
5.1 Marpol Annex I: choose from below		-	
5.1.1 Oily tank washings		5101	Cargo residues - Marpol Annex I - Oily tank washings
5.1.2 Oily (dirty) ballast water		5102	Cargo residues - Marpol Annex I - Oily (dirty) ballast water
5.1.3 Scale and sludge from tank cleaning		5103	Cargo residues - Marpol Annex I - Scale and sludge from tank cleaning
5.1.4 Other - specify in free text field	X	5100	Cargo residues - Marpol Annex I - Other
5.2 Marpol Annex II: choose from below		-	
5.2.1 Washing waters containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS:	X	5201	Cargo residues - Marpol Annex II - Washing waters containing noxious cargo residues
5.2.2 Ballast water containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS	X	5202	Cargo residues - Marpol Annex II - Ballast water containing noxious cargo residues
5.2.3 Other, specify in free text field by using MARPOL Annex II category X, Y, Z, OS	X	5200	Cargo residues - Marpol Annex II - Other
5.3 Marpol Annex V: choose from below		-	
5.3.1 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 residues - Marpol Annex V - Cargo hold washing water containing residues and or cleaning agents or additives harmful to the marine environment

Description as in eMS Business Rules document	Free text description needed	Code	Description
5.3.2 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 residues - Marpol Annex V - Cargo hold washing water containing residues and or cleaning agents or additives NOT harmful to the marine environment
5.3.3 Dry cargo residues harmful to the marine environment: specify in free text field	X	5303	Cargo residues - Marpol Annex V - Dry cargo residues harmful to the marine environment
5.3.4 Dry cargo residues NOT harmful to the marine environment: specify in free text field	X	5304	Cargo residues - Marpol Annex V - Dry cargo residues NOT harmful to the marine environment
5.3.5 Other - specify in free text field	X	5300	Cargo residues - Marpol Annex V - Other

Annex C

Description Dangerous and Polluting Goods - Recommendation on list of applicable data elements for DPGItems depending on DGClassification (IMO Code)

Classification / IMO Code	Textual Reference (Applicable Y/N)	UN number (Appl. Y/N)	IMO Hazard Class (possible classes)	Packing group (Applicable Y/N)	EMS ¹ (Applicable Y/N)	Subsidiary risk (Applicable Y/N)	Marpol code (Appl. Y/N)
IMDG	Y (i.e. Proper shipping name ² ³)	Y	<ul style="list-style-type: none"> – (1), 1.1, 1.2, 1.3, 1.4, 1.5, 1.6 – (2), 2.1, 2.2, 2.3, 3, – (4), 4.1, 4.2, 4.3, – (5), 5.1, 5.2, – (6), 6.1, 6.2, 7, 8, 9 – or UNKNOWN⁴ 	<p>Y/N</p> <ul style="list-style-type: none"> – 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 NONE⁵). 	<p>Y/N</p> <ul style="list-style-type: none"> – Consists of 2 values, 1 for spillage and 1 for fire. – Possible values spillage: S-A to S-Z. – Possible values fire: F-A to F-Z⁶. 	<p>Y/N</p> <ul style="list-style-type: none"> – Possible values refer to IMDG and IMO Hazard Class. – More than one value is possible. 	N

¹ Emergency response procedures for ships carrying dangerous goods

² For most of the IMDG goods the proper shipping name is unique.

³ For almost all the IMDG goods the combination IMO Hazard Class, UN number and Packing Group is unique. For a very limited number this is not the case.

⁴ Values between () are no dangerous goods classes, but sometimes the division is not known (e.g. 4.1 or 4.2) and then the value between brackets (e.g. 4) is reported.

⁵ There are IMDG goods without a packing group

⁶ Not clear if every IMDG good has an EMS or both for fire and spillage.

Classification / IMO Code	Textual Reference (Applicable Y/N)	UN number (Appl. Y/N)	IMO Hazard Class (possible classes)	Packing group (Applicable Y/N)	EMS¹ (Applicable Y/N)	Subsidiary risk (Applicable Y/N)	Marpol code (Appl. Y/N)
IBC⁷	Y (i.e. Product name)	Y/N	– Possible values: S, P, S/P or UNKNOWN	N	N	N	Y – Possible values: X, Y, Z, OS UNKNOWN
IGC	Y (i.e. Product name)	Y	– Possible values: 2.1, 2.2 or 2.3	N	Y/N	Y/N	N
IMSBC	Y (i.e. Bulk cargo shipping name)	Y/N	– 4.1, 4.2, 4.3, 5.1, 6.1, 7, 8, 9 – MHB (material hazardous only in bulk)	N	Y/N	Y/N	N
Marpol Annex 1	Y (i.e. Name of oil)	N	– HEAVY, LIGHT or UNKNOWN	N	N	N	N

⁷ For a limited number of goods the type of ship determines whether the good is classified as either IBC or IGC during the transport.

Annex D

Description List of the changes from previous XML Reference Guide versions

Changes from version 2.08 to the current draft

Introduction Changes to the document from previous version 2.07 to this draft version 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
7	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 deriving from the Reporting Formatilities Directive (Dir. 2010/65/EU)	
21	Definition of a Data Provider	Remove the type of data provider storing information in paper format			
25	Description of the “Send Notifications” process	Notification types updated			
34	Description of the “Information Requests” process	Information Request Types updated			
41	Section 3.1 - Overview	XML messages updated. The following messages were removed: <ul style="list-style-type: none"> Send Security notification Get Port Notification Details Get Hazmat Notification Details Get Security Notification Details The following messages were added: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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			
75-85	Section 3.4 – Send Notifications /	- Inclusion of information from Security and Waste notifications.		Update of SSN to include the changes deriving from the Reporting	

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
	MS2SSN_PortPlus_Not.xml message	- Removal of Hazmat details via phone/fax and URL. - Adaptation of general business rules and individual business rules.	06-11-2013 (SSN WS 20)	Formatilities Directive (Dir. 2010/65/EU)	
86	Section 3.4 – Send Notifications	Exemption notification added (MS2SSN_Exemption_Not.xml) including Waste exemptions following HLSG 10 decision			
125	Section 3.6 - Get Port Notification Details	Removed			
126-145	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: <ul style="list-style-type: none">• MRSIdentification• CSTIdentification• AnyDG• ReportingDateAndTime• AOI - Removal of Ship MRS details via phone/fax and URL		Improvements on the Ship MRS exchange of information	
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			
Error! Bookmark not defined.	Section 3.7 - Get Hazmat Notification Details	Removed			
Error! Bookmark not defined.	Section 3.9 - Get Security Notification Details	Removed			
174-209	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.			
228	Annex A - XML attributes definitions	Updated with new attributes: - Activity			

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
		<ul style="list-style-type: none"> - 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 - 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 	06-11-2013 (SSN WS 20)		

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
		<ul style="list-style-type: none"> - SpecialOrAdditionalSecurityMeasures - SubsidiaryRisk - TotalNrOfPackages - TransportDocumentID - ValidISSC - WasteCode - WasteDeliveryStatus - WasteDescription 	06-11-2013 (SSN WS 20)		
239 263 264	Annex A / Naming convention	Length of From, To, SSNUserID, SSN_ID_AuthorityXML attributes to a minimum of 7 and a maximum of 32 characters		Harmonization required for the common Naming Convention	
268	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 deriving from the Reporting Formatilities Directive (Dir. 2010/65/EU)	
271	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	MS2SSN_Ship_Not	Change element 'ETA' to optional in <i>AISVoyageInformation</i> element node	06-11-2013	Removed business rule as no longer applicable	Corrections on v2.07
138	MS2SSN_Ship_Res				
Error! Book mark not defined.	SSN2MS_Ship_Res				
200 207	SSN2MS_ShipCall_Res	Change element 'CargoManifest' to optional in ShipCall response			
116 224	SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res	Misspelled element name "ShipPositionAtTheTimeIncident" and "ShipPositionAtTimeIncident" amended to "ShipPositionAtTimeOfIncident"			
96 105 113 120 220 225 265	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res Annex A	Misspelled element name "FailedNotificationIncidentInformation" amended to "FailedNotificationIncidentInformation"			
105	MS2SSN_IncidentDetail_Not	Misspelled incident type "FailedNotification" amended to "FailedNotification"			
92 97 110 216	MS2SSN_IncidentDetail_Not	Misspelled attribute "Email" to be amended in "EMail"			
238 243	Annex A	Correction in the attribute description of "FeedbackDistributionToFlagState" and "IRDistributionToFlagState"			

215 222	SSN2MS_IncidentReport_Res	Correction in the occurrence of element "ProvidedIncidentdetails" to optional			Alignment with the XSD 2.07
Error! Book mark not defined. 258	Status Code Annex A	Correction of the term 'registry' and 'reference registry' to 'database'	04-07-2012		As agreed at HLSG
136	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
25	Description of the "Send Notifications" process	Remove v1 Port and Hazmat Notifications	25-06-2012		Phase out of v1 Port and Hazmat Notifications
34	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
27	Voyage correlation business Rules	Define the applicable business rules			Voyage consolidation process

89	Section 3.5 - Send IncidentDetail Notifications	Introduce the new IR Notification, Distribution and Acknowledgement messages			Improve the IR distribution
Error! Bookmark not defined.	MS2SSN_PortPlus_Not	CargoManifest element “When <i>HazmatOnBoardYorN</i> = “Y” the CargoManifest is mandatory.”		Removed business rule as no longer applicable.	Apply corrections and clarify business rules.
156	MS2SSN_Alert_Res	Corrected the occasion of elements and attributes			Correct the inconsistencies identified in the Alert response messages Annex A
214	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.
228	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.
273	Changes from previous versions	Section moved to the end of the document		Improve document layout	Annex the list of changes

7	Foreword	Update Legal Framework		To be consistent with XMLRG v2 onwards	Apply corrections.
9	SSN Global Architecture	Corrected illustration		2-way SSL and SOAP messages	Update implementation constraints
18	SafeSeaNet Functional Services Overview	Introduction of GI		Introduce the new interface for data visualization	Upgrade system functionality
22, 41, 57	Data Provider capabilities	Masking of Url		Enforcement of 2-way SSL when requesting for electronic documents.	Update implementation constraints
34, Error! Bookmark not defined., Error! Bookmark not defined.	Description of the “Information Requests” process	Clarifications on the Port and Hazmat requests		Clarify the contents of these requests	Apply business rule
Error! Bookmark not defined.	Status Codes and Status Messages	Update the description of 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
75	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
177	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
197, 228	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 corrections.
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 corrections
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.
194	SSN2MS_ShipCall_Req	New optional attribute (GetHazardType) added
195	SSN2MS_ShipCall_Req	New attribute business rules added.
197	MS2SSN_ShipCall_Res	New optional attribute (GetHazardType) added
199	MS2SSN_ShipCall_Res	New attribute business rules added.
195,197	MS2SSN_ShipCall_Res	Header attribute (TimeOutValue) removed.
202	SSN2MS_ShipCall_Res	
203 , 208	SSN2MS_ShipCall_Res	POBVoyageTowardsPortOf Call attribute's name corrected.
224	ANNEXB	Description and general rules for GetHazardType added. MS2SSN_PortPlus_Not message added for INFShipClass attribute.

New query added.	Apply correction.
New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
Business rule for the new attribute added.	Business rule added.
New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
Business rule for the new attribute added.	Business rule added.
Delete the attribute which was reported due to a typing error	Apply correction s.
Correction of the attribute's name	Apply correction
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 <i>HazmatOnBoardYorN</i> = “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 <i>HazmatOnBoardYorN</i> = “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
9	SSN Global Architecture	Corrected illustration	11-11-2009	Corrected wrong terms	General: Improve readability and usage. Integration of MS comments
13	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 occurrence 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	
Error! Bookmark not defined.	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"	
75	MS2SSN_PortPlus_Not.xml (message)	Correction of attribute's occurrence		Inserted occurrence value for "ContactDetails" attribute which was formerly missing	
187	Get Shipcall notification(s) details	Corrected title		Corrected title	
187	Table 1 – 2 nd column	Corrected XML message name		Corrected message's name	
187	Table 1	Corrected query 9 description – Added queries #10 and #11	11-11-2009	Amendment	
187	MS2SSN_ShipCall_Res.xml (overview)	Correction of parental elements' position		Corrected position of "SearchCriteria" and "ShipIdentificationCriteria" elements	
197\	MS2SSN_ShipCall_Res.xml (message)	Correction of elements' descriptions		Corrected descriptions of "ProvidedResponseCriteria" and "ShipCallResp" elements	

197\	SSN2MS_ShipCall_Res.xml (overview)	Correction of attribute's position	Corrected position of attribute "GetDetails" which was missing	
197\	SSN2MS_ShipCall_Res.xml (overview)	Correction of attributes occurrency value	Corrected occurrency values of "ATAPortOfCall" and "Anchorage" attributes	
197\	SSN2MS_ShipCall_Res.xml (message)	Correction of element's description	Corrected description of "ShipCallResp" element	
228	Annex B XML attributes definitions	Amended description of GetDetails attribute	Amendmend	
228	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
75	MS2SSN_PortPlus_Not	Introducing the PortPlus notification message	-	Reflect the forthcoming implementation of the “PortPlus” message. Improve readability and usage.	SSN WGT/01/05
187	Send ShipCall Notification Details requests	Introducing the ShipCall request messages	-		SSN 11/3/6 (v.1.2)
228	Annex B	Contains the definition of all attributes that appear in the SSN XML messages.	-		SSN WGT/02/03 (v.1.0)
-	All sections	<p>General change. Modified the structure of the document to introduce for each message section:</p> <ul style="list-style-type: none"> - 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. <p>Define the MS2SSN_PortPlus_Not.xml message and MS2SSN_ShipCall_Res.xml message.</p>	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
9	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.
7	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.
19	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
16	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/attribute.	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	<p>The occusion of item MRSCargoInformation > DGDetails is set to 0-∞.</p> <p>The occusion of element AISCargoInformation is set to 0-1.</p> <p>The occusion of attribute AISCargoInformation > HazardousCargoType is set to 1.</p>	26/05/2008	Correct the optionality of the element that contains 1 optional attribute.	Contact Sheet - 0196
Error! Bookmark not defined.	MS2SSN_Hazmat_Res.xml message	<p>The occusion of element Cargo Information>DPG is set to 1- ∞.</p> <p>The occusion of elements Cargo Information>DPG >PlacementOfGoods and PlacementOfGoodsInContainer is set to 0-∞.</p> <p>Ssn.xsd update: set the occusion of element NotificationDetails > VesselIdentification to 1.</p>	26/05/2008	Align ssn.xsd with the XML messaging reference guide.	Contact Sheet - 0196
169	SSN2MS_Alert_Res.xml message	<p>Update the definition of the message. Remove Last name, First name. Add Maritime Authority name.</p> <p>Ssn.xsd update: Element SSN2MS_Alert_Res.xml > Body > ContactIdentification is updated from ssn:ContactDetailsType to ssn:ContactIdentificationType with attributes:</p> <ul style="list-style-type: none"> -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]					
289	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
141	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	<ul style="list-style-type: none"> 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 occurrence (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 VoyageInformation part.	04/11/2005	Complete the missing attributes of the <i>VoyageInformation</i> element node.	Helpdesk service call SSN-24 (France).
112	SSN2MS_Hazmat_Res.xml message	<ul style="list-style-type: none"> The occurrence (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 attribute is defined.	Helpdesk service call SSN-23 (France).

152	SSN2MS_Alert_Res.xml message	Set the occurrence (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 <i>urn:eu.emsa.ssn</i> and must be specified as <i>xmlns</i> attribute value of the root element of every XML message.
-	All XML messages	<ul style="list-style-type: none"> Add <i>xmlns="urn:eu.emsa.ssn"</i> attribute to every root element of every XML instance (as <i>urn:eu.emsa.ssn</i> 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.