EUROPEAN COMMISSION

EUROPEAN MARITIME SAFETY AGENCY

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SafeSeaNet
XML Messaging Reference Guide

Version 2.07
~~25-10-2011~~21/09/2012

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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2.00	19-Jun-09	Intrasoft Specs Team	Modified the structure of the document to introduce - definitions: a common table for all messages which will define the elements and attributes of all the messages will be inserted in the common part of the new XML Ref Guide. - overview: it describes the attributes and elements with their occurrences (mandatory or non-mandatory) for each message. - rules: it describes the specific rules applicable to each message. The elements and attributes already defined will just be named. Define the PortPlus Notification and ShipCall Request and Response messages.
2.01	23-Jun-09	Intrasoft Specs Team	Incorporated comments by EMSA.
2.02	30-Jul-09	Intrasoft Specs Team	Correct the rules applying to the NotificationDetails and IncidentDetails elements.
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Changes from previous versions

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

Foreword

Objectives of the SafeSeaNet project

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

▪ Its geographical scope will cover all EU Member States and could be extended to EFTA maritime countries (Norway and Iceland), as well as the maritime acceding countries, with possible participation by other non-EU countries. It has to be emphasised that the existing national systems involve a number of different authorities, depending on the centralised or decentralised structure of the State concerned. The telematic network may therefore link authorities at local/regional level and central authorities.

▪ It shall take into account new IT technologies: SafeSeaNet shall be capable of functioning with means, such as the Internet and should be flexible enough to cope with possible future technological developments.

▪

Legal Framework

All the requirements related to SSN defined by the following legal instruments: Directive 2002/59/EC as amended (establishing a Community vessel traffic monitoring and information system), Directive 2000/59/EC (on port reception facilities for ship-generated waste and cargo residues) and Directive 2009/16/EC (on Port State control).

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.

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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 21 for more details about the functional services provided by the different interfaces (browser-based and XML interfaces).
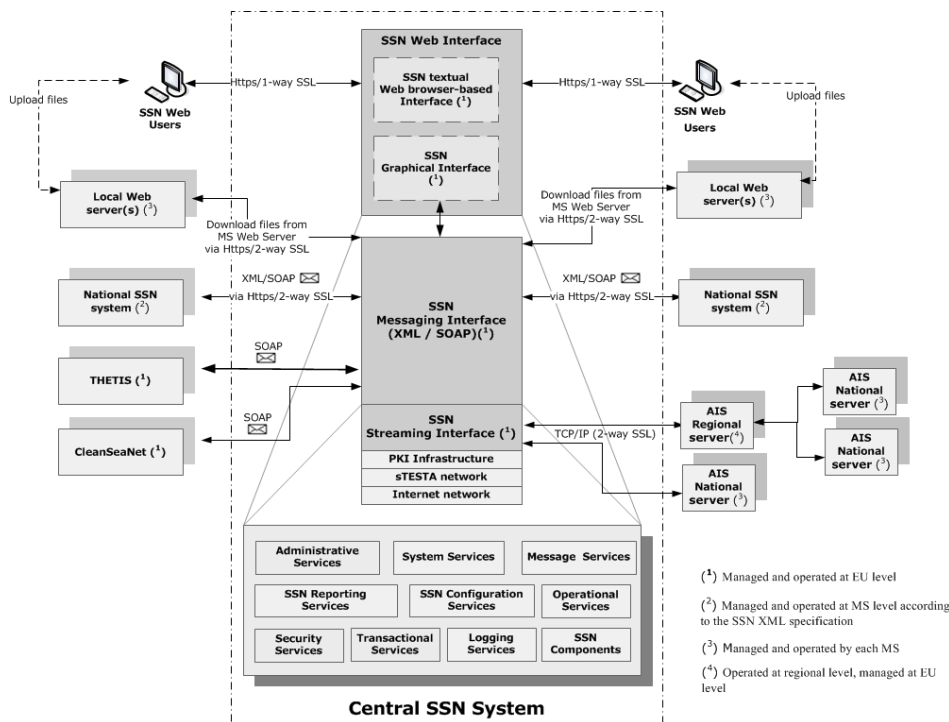
SafeSeaNet global Architecture, Continued

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 Members States are bound to collect data from ships' masters or operators and to exchange information. Until now, exchange of data is not harmonised, making use of several means of communication, from phone or fax to EDIFACT or XML. This hampers considerably an efficient implementation of the EU maritime safety legislation

**Implementation
Constraints**

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

- For obvious scalability reasons, the exchange of XML messages between a national SSN 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

Continued

**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 systemand 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 systemto send XML messages (requests and responses) to the central SafeSeaNet system. The single address provided by every national SSN systemwill be used by the central SafeSeaNet system to send XML messages (requests and responses) to the NCA applications.

**Member States'
responsibilities**

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

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

The **responsibility** for a site that **collects** (owns) 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

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 owner 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-owning 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
▪ The flow of messages (requests and responses), ▪ The structures of each of these XML messages	This guide
▪ The Networking aspects ▪ The Security aspects	"SafeSeaNet Network & Security Reference Guide"

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 the directive:

- 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 the directive.

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.

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 Network & Security Reference Guide" (available on https://extranet.emsa.europa.eu under SSN Main > Document Repository > Protected Documents [1]).

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

Security requirements

Introduction   Please refer to the document "SafeSeaNet Network & Security Reference Guide" (available on https://extranet.emsa.europa.eu under SSN Main > Document Repository > Protected Documents [2]).

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[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 port and~~ the PortPlus notifications, excepting HAZMAT details). In the case HAZMAT notification details are requested, the central SSNsystem will act also as data requester on behalf of the actual requesting MS.

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

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

- A browser-based web interface
- 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.

Overview, Continued

SafeSeaNet XML Message-Based Interface

SafeSeaNet will also provide an XML message-based interface (in two varients, 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 own.

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 43).

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 oprocesses 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 dicomposed 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.

SafeSeaNet Functional Services

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

- Notifications
- Information Requests

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

Contents

This chapter contains the following sections describing the processes:

Definition of a *Data Provider*

Introduction
In SafeSeaNet, a *Data Provider* is a Member State owning 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 owns 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).

Types of *Data Provider*
Two types of *data providers* could be encountered in this system:

- Data Providers (LCAs) already having their own databases to store vessel movements and details in XML format. The exchange of information between LCAs and NCAs happens in electronic format.
- Data Providers (small maritime entities) still having their own detailed information being stored in paper format. Some NCAs are still receiving report data from the LCA's or the ship operators as paper documents or as fax documents.

For *data providers* already equipped with central stores, they will more likely implement the SafeSeaNet XML message-based interface for sending notifications and responding to safeSeaNet's requests.

Definition of a Data Provider, Continued

Types of Data Provider (continued)

For the small entities still receiving the maritime data in paper format, the Commission had suggested that they scan those paper documents in electronic format and upload them on a web server that will be managed by the Member State (recommended at NCA level) so that, these documents could be retrieved by the SafeSeaNet system on demand. -

Data Provider capabilities

The *Data Provider* is the one who has sent a notification to SafeSeaNet telling it owns 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 owns (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* willsend 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.

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 thecentral 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.

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

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 owns some kind of information about a vessel or about an incident.

Notification Types   Notifications can be of 6 different types:

Type	Description
~~Port~~	~~Used to notify SafeSeaNet that a given vessel is bound for a particular port with an estimated time of arrival and with a number of persons aboard.~~
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.
~~Hazmat~~	~~Used to notify SafeSeaNet that a given vessel carries dangerous or polluting goods and that the sender owns the detailed information about these goods.~~
Security	Used to notify SafeSeaNet that the sender holds some security information about a given vessel.
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[3]	Used to notify SafeSeaNet in cases of: ▪ Pre-arrival notification of information at least 72 hours before the ship's arrival in a EU port whenever the ship is eligible for an expanded PSC inspection; ▪ Pre-arrival notification of information at least 24 hours before the ship's arrival in a EU port; ▪ Arrival notification, upon actual ship's arrival; ▪ Departure notification, upon actual ship's departure; ▪ Notification of dangerous and polluting goods carried onboard a ship bound for an EU port, either when coming from a non-EU or an EU port (HAZMAT)

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[3] As soon as Member States and SSN-EIS will have completed the development of the required changes into their applications for fully support the use of the PortPlus message, the latter is expected to replace the single Port and HAZMAT messages.

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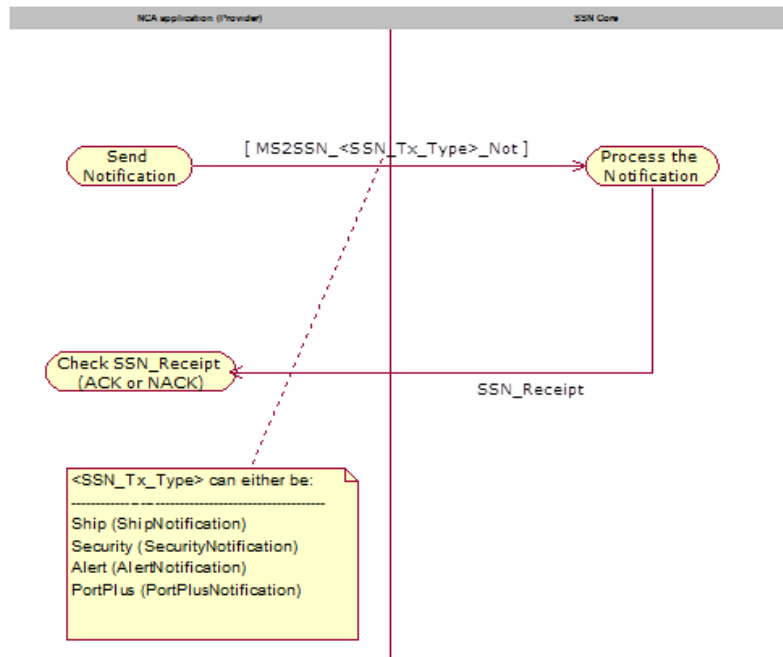
As mentioned earlier, the browser-based web application that SafeSeaNet will provide could act as the national SSN system in the figure above.

Continued on next page

Description of the "Send Notifications" process, Continued

Description of the flow

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

XML messages   For more details about the XML messages used by this process, see "Section 3.4 - Send Notifications" at page 65.

PortPlus Notification Message Consolidation into a Voyage process

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

| | | notifications, the ETD) provided by the departing port:
• Until an ATA Port of Call notification will be received for the ship "in the future" with respect to the ATD (ETD) from the port of departure, or
• Until a new Hazmat declaration for the ship will become active, or
• Until the period [ATD (ETD) from departure port+EVD] is elapsed if vessel is heading towards a European destination
• Until the period [ATD (ETD) from departure port+WVD] is elapsed if vessel is heading towards a non-EU port or unknown destination.
6. Active Hazmat (Non EU Departure): A Hazmat Non EU departure is considered "active" for a period:
• From ETD port of departure (if available) until ATA (ETA) port of Call, or
• From its registration (defined by the SentAt) to the system and until the ATA (or in case of non-availability of ATA, the ETA Port of Call). Conditions are:
  ○ [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)] |

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 take splace 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 following tablparagraph "matching voyage sub-process" rules, here-belowe.

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

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

Status	Rules
On going	A. The ATD/ETD from last Port is in the "past" with respect to the query timestamp in UTC, and
	B. the [ETAPortofCall+[a configurable parameter, e.g. 2 hours] is in the future with respect to query timestamp in UTC
	C. there is no ATA known known for the voyage.
	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.
At port	A. The ATD/ETD from last Port is in the "past" with respect to the query timestamp in UTC , and
	B. The ATA is available for the voyage, and
	There is no ATD known from the PortOfCall.
Closed	A. The ATD/ETD from last Port is in the "past" with respect to the query timestamp in UTC. and
	The ATD is available from the PortOfCall.
"Unknown"	Case 1:
	A. The ATD/ETD from last Port is in the "past" with respect to the query timestamp in UTC, and
	B. There is no ATA for the voyage, and
	C. The [ETAPortofCall+[a configurable parameter, e.g. 2 hours]] is in the past with respect to query timestamp in UTC.
	Case 2:
	Voyages that provide ETDLastPort and ETAPortOfCall that are 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 ETDLastPport 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	The correlation process considers the following operational data: • LOCODE of the departure port reported in notifications; • ATD (or in case of absence of ATD, the ETD) reported from departure port in the notifications; • LOCODE of the Port of Call reported in notifications; • ATA (or in case of absence of ATA, the ETA) to Port of Call reported in the notifications;	
2	The correlation process ignores non meaningful data (unknown port of call, dummies ETA port of Call, ETD port of Call or ETD last port) quoted within notifications.	
3	The correlation process also ignores the ETA Port of Call information, even if it is not dummy, included in the notification provided by the departure port. It gives preference to the ATA quoted from the port of Call or, in case of absence of the ATA, to the ETA from port of departure quoted by the arrival port.	
4	The correlation process is successful (that is ship call information provided by different providers is merged to a single voyage) in the case the SSN central application can safely determine that: • in the notifications provided by different providers the information related to departure and arrival ports locations match to each other, or at least; the MS are invited to comment on this condition – refer to notes section below • in the notifications provided by different providers the location of the port of departure as declared by the port of destination is in the same country with the departure location declared in the port of departure notification.	
5	If notifications sent by the departure port concerning EU departures quote an unknown destination and the Hazmat declaration associated to the notification becomes active, SSN shall link the Hazmat declaration associated to the notification to the ship voyage with the closest ETA in the future.	
6	If: • notifications sent by the departure port concerning EU departures quote as prospective port of call a known destination, and	

	• the Hazmat declaration associated to the notification becomes active, SSN shall link the Hazmat declaration to the ship voyage with the closest ETA in the future (with respect to the ATD, or in case of ATD absence, the ETD from port of call). For the correlation will be considered the notification from arrival port (PortPlus) which either: a) Identifies as last port, the port that provided the Hazmat EU departure notification or, b) Does not include any information on last port. If the port of call (in the ship call notification with nearest ETA in the future) differs from the one identified within the notification provided by the departure port, preference is given to the port of call information as defined in the notification (PortPlus) sent by the Port of Call. That is, in such a case the next port of arrival information provided by the port of departure is ignored.
7	In the event that there exist (in the system) an active Hazmat notification Hazmat1 which is linked to a voyage1 with an ETA1 to Port of Call and at a certain point in time this ETA1 is elapsed by at least 2 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. i. SSN will never attempt to correlate a Hazmat EU departure to a ShipCall that reports an arrival with Hazmat from a Non-EU Port. ii. If for a ship the following exist in the system: a) A Hazmat EU departure destination towards non EU country b) A Hazmat Non-EU departure with last port = non EU country and their "active" period is "overlapping" the end-active date for Hazmat EU departure declaration and start-active date for Hazmat non EU declaration the following adjustment will be made: – If the Hazmat EU departure notification provides a "not dummy" ETA to destination port and the Hazmat non EU departure notification provides a "not dummy" ETD from the Non EU port , the ETA to destination port is ignored and system will consider [EndActiveDateTime for Hazmat EU departure]=[ETD from Non EU port declared in Hazmat Non EU departure notification]= [StartActiveDateTime for Hazmat Non EU departure notification] – If the Hazmat EU departure notification provides a "not dummy" ETA to destination port and there is no ETD from the Non EU port declared in the Hazmat non EU departure notification the system will consider [EndActiveDateTime for Hazmat EU departure]=[ETA to destination declared in Hazmat EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification] – If both estimated times are missing or are considered dummies the system will consider [EndActiveDateTime for Hazmat EU departure]=[SentAt of Hazmat non EU notification] = [StartActiveDateTime for Hazmat Non EU departure notification] iii. If for a ship exists the following co-exist in the system: a) A Hazmat EU departure destination towards non EU country where

the ETA to destination (ETA1) is provided and is not dummy

    b) A Hazmat Non-EU departure with last port = non EU country where the ETD from departure port (ETD1) is provide and it is not dummy

    c) There is a logical relationship between ETA1 and ETD1 (ETA1<ETD1)

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

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

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

  vi. If for a ship exists the following co-exist in the system:

    a) An "active" Hazmat EU departure declaration with ZZUKN quoted as destination

    b) An active Hazmat Non-EU departure declaration provided by the port of Call with no information on the last port (no ETD from departure port)

SSN will consider the "unknown" destination of the ship, declared in the EU departure notification actually as a non-EU port (provided that no further ship calls are found in the system with an ETA in the future quoting as last port the sender of the above notification.). In such a case the system will consider that the date/ time the Hazmat EU declaration stops to be active will be the data that the Hazmat Non EU declaration will become active (SentAt of the Hazmat Non EU Departure).

Notes on voyage consolidation rules:

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

2. As mentioned in business rule No 4 above, the data correlation cocerns 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.

The MS are invited to consider if this rule shall be removed as of protocol v2.07 onwards given that the v1 Port and Hazmat Notifications are phased out.

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 owning 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
Port	Used to get detailed information about ~~a given port notification~~the Port of Call, ETA and ETD and POB for the latest ship call registerd in SSN . As SafeSeaNet holds the complete 24 and 72 hours pre-arrival information concerning the shipcall (~~of a port~~provided via a PortPlus ~~notificatio~~notification)~~n~~, there's no need to ask more information to the Member State (*data provider*) having originally sent the port notification. Therefore, SafeSeaNet will also act as *data provider* for the port notification information request. ~~In addition.~~Given that the Port request mechanism implemented in SSN ~~also~~ allows retrieving the latest Port information provided via a PortPlus notification (ETA/ETD regarding the port of call and persons on board provided in the 72 and/or 24h pre-arrival notifications). In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.
Ship	Used to get detailed information about a given ship notification. Upon receiving such request, SafeSeaNet will ask the actual *data provider* to send him the detailed information. SafeSeaNet will then send it back to the *data requester*.
Hazmat	Used to get detailed information about a given Hazmat reported in a PortPlus notification. Upon receiving such request, SafeSeaNet will ask the actual *data provider* to send him the detailed information. SafeSeaNet will then send it back to the *data requester*. In addition, the Hazmat request mechanism implemented in SSN ~~also~~ allows retrieving the ~~latest~~ active Hazmat information provided via a PortPlus notification (Hazmat EU or Hazmat non EU departures). In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.
Security	Used to get detailed information about a given Security notification. Upon receiving such request, SafeSeaNet will ask the actual *data provider* to send him the detailed information. SafeSeaNet will then send it back to the *data requester*.
Alert	Used to get detailed information about a given Alert notification. Upon receiving such request, SafeSeaNet will ask the actual *data provider* to send him the detailed information. SafeSeaNet will then send it back to the *data requester*.
ShipCall	Used to get detailed information about: • Specific operational information related to the various stages of a ship call for a given vessel. Such information may relate, for instance, to the expected ship call on the basis of the ETA, the most recent departure of the ship or on the basis of ATDPortOfCall, etc.; • The whole set of notifications concerning the current voyage of a

	specific ship (i.e. the pre-arrival, arrival, departure notifications and associated – if made available – Hazmat declarations); • Ship calls at a specific European Port during a specific time frame; • Confirmation that Hazmat material exist on board a ship during her current voyage; • A short summary of Hazmat declaration describing the dangerous good on board during her current voyage; • The whole set of information made by a M.S on dangerous goods carried on board a ship during her current voyage. In addition, the ShipCall request mechanism implemented in SSN also allows retrieving the24h pre- arrival and Hazmat information provided via the Port and Hazmat notifications. In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

Continued on next page

Description of the "Information Requests" process, Continued

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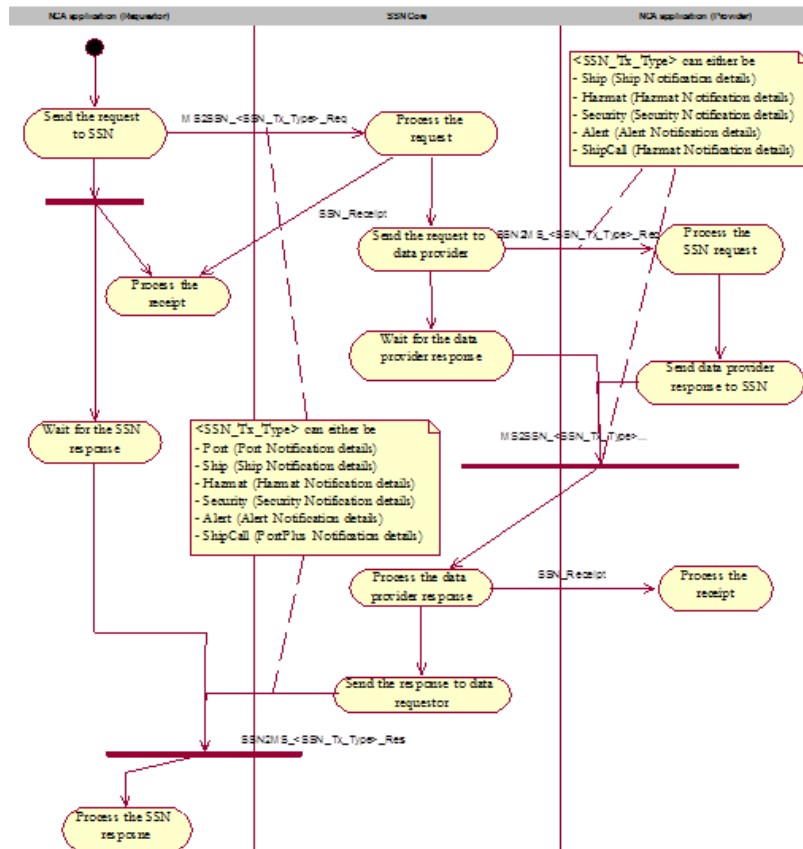
The process flow illustrates the case where the *data provider* can talk XML with SafeSeaNet.

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

Description of the flow

Step	Action
1	The national SSN system (*data requester*) prepares the MS2SSN_<SSN_Tx_Type>_Req XML message corresponding to the type of the information request and sends it to SafeSeaNet.
	▪ Contrary to the notification principle, the communication is now asynchronous. Therefore, upon receiving the 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.

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

XML messages   For more details about the XML messages used by this process, see "Chapter 3 - SafeSeaNet XML Messages" at page 43.

Description of the "Incident Report Distribution" process

Purpose   This process outlines the flow of activities performed when a Member State has specifies to receive the Incident Reports (IR) at national level via XML. The proper recipient will have to be defined as a single point of contact for XML distribution.

Following the receipt of an IncidentDetail notification from the data provider, SafeSeaNet will distribute the IncidentDetails to the indicated list of recipient Member States.

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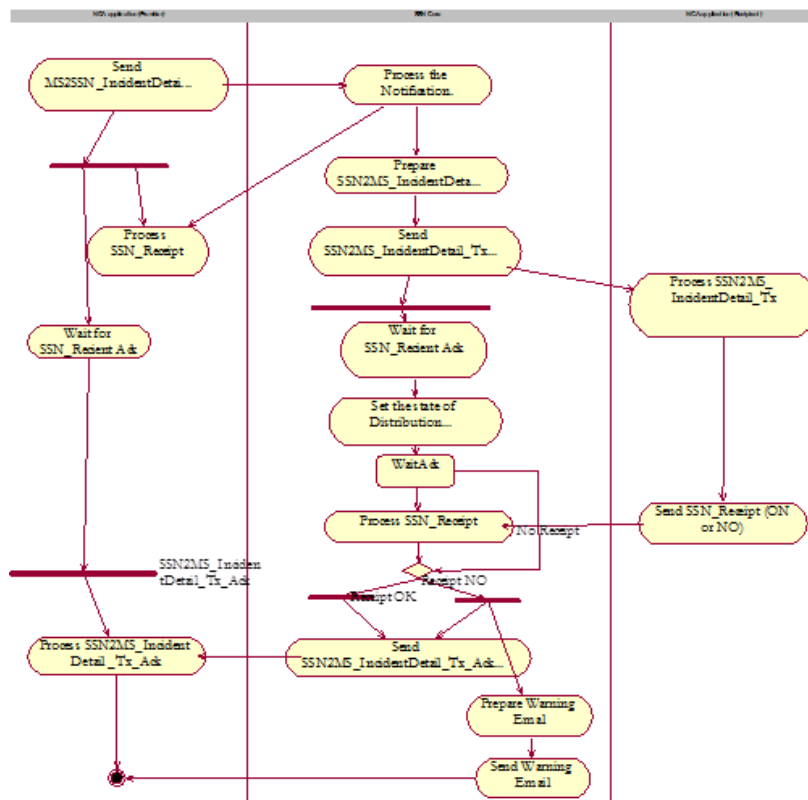
The process flow illustrates the case where the *data recipient* can talk XML with SafeSeaNet.

Description of the flow

Step	Action
1	A Member State, acting as a data provider and willing to distribute an Incident Report , will provide all details within the notification and will select manually the recipient countries from a list within the notification process.

2	SafeSeaNet logs and validates the received *MS2SSN_IncidentDetail_Not* XML message. ▪ If well-formatted (XML compliant) or valid (compliant to corresponding XSD), an SSN_Receipt message with StatusCode='OK' is sent synchronously.
3	The data received and stored at SSN core level will be distributed by the SSN core system in accordance with the distribution list. If the recipient Member States have chosen the XML mode, then the message will be "pushed" to the relevant NCAs. The communication is now asynchronous. The national SSN system should wait for receiving asynchronously the *SSN2MS_IncidentDetail_Tx* XML response from SafeSeaNet.
4	SafeSeaNet will forward to the data provider a receipt message indicating the consolidated status of distribution .
5	In case of troubles in the XML distribution, the SSN core will initiate a failure management process dispatching a warning email to the recipient NCA24/7 (putting MSS in copy). The purpose of this email is to alert the relevant authorities about the existing problems. In order to meet the operational and legal requirements (art. 16.3 of the Directive 2002/59/EU), the recipient of the warning email is expected to react by requesting the IR details of the data provider.

XML messages   For more details about the XML messages used by this process, see "Chapter 3 - SafeSeaNet XML Messages" at page 43.

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 21). 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 Port Notification
  - Send Ship Notification
  - Send Hazmat Notification
  - Send Security Notification
  - Send Alert Notification
  - Send PortPlus Notification

- Information Requests (used by *data requesters,* the central SafeSeaNet system and *data providers*)
  - Get Port Notification Details
  - Get Ship Notification Details
  - Get Hazmat Notification Details
  - Get Security Notification Details
  - Get Alert Notification Details
  - Get PortPlus Notification Details

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

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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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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
Date	Date as '*YYYY-MM-DD*'
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.

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 (~~Pp~~ort__Plus__, ship,…).

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

<Direction>_ <SSN_Tx_Type>_ <MsgType>

Name part	Possible values	Description
<Direction>	MS2SSN	Message sent by a national SSN system to the central SafeSeaNet system.
	SSN2MS	Message sent by the central SSN system to a national SSN system.
<SSN_Tx_Type>	Port	Port ~~Notification~~ Request and response messages
	Ship	Ship Notification, Request and response messages
	Hazmat	Hazmat Request and response messages ~~Notification~~
	Security	Security Notification, Request and response messages
	Alert	Alert Notification, Request and response messages
	PortpPlus	PortPlus Notification
	ShipCall	Request and response messages for retrieving information notified through PortPlus
<MsgType>	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

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)

XML Structure and Schema Definition (XSD)

General structure of the XML Messages

The general structure of every XML message is the following:

<root element xmlns="urn:eu.emsa.ssn">

  <Header .../>

  <Body>...</Body>

</root element>

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

XSD of the XML messages

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

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

From and To attributes

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

- The central SafeSeaNet system will be identified under the name '**SSN**'.
- Every SafeSeaNet entity (Coastal station, port, PSC, NCA) using the XML message-based interface will be assigned one ore 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 systemsand 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 systemsmust sent 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 systemfor 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 systemfor 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 systemin the *MSRefId* attribute of every XML message dealing with the current transaction it sent to the central SafeSeaNet application.

The central SafeSeaNet system must sent 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):

NCA_A	SafeSeaNet		NCA_B

MS2SSN_Security_Req
MSRefId="987"

→

SSN_Receipt
MSRefId="987"
SSNRefId="N/A"

←

SSN2MS_Security_Req
SSNRefId="2CBAF18E-1631-4AEB-9280-00692C745B8E"

→

MS2SSN_Security_Res
MSRefId="12345"
SSNRefId="2CBAF18E-1631-4AEB-9280-00692C745B8E"

←

SSN_Receipt
MSRefId="12345"
SSNRefId="N/A"

→

SSN2MS_Security_Res
MSRefId="987"
SSNRefId="2CBAF18E-1631-4AEB-9280-00692C745B8E"

←
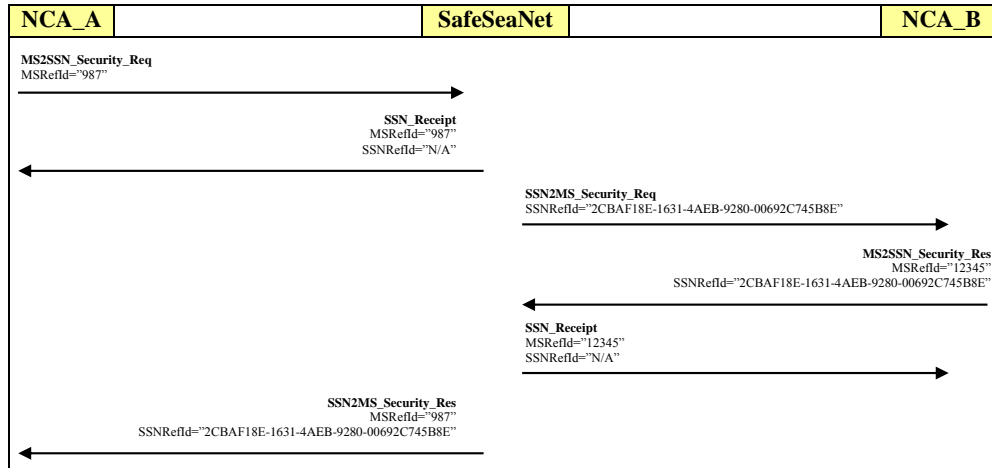
Status Codes and Status Messages

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.51 for more details)
Timeout	The corresponding XML request/notification message has not been processed within time (according to the *TimeoutValue* attribute). This value may only be used by SSN-EIS in an XML response message.
ServerError	The corresponding XML request/notification message has not been successfully processed due to a server problem (e.g. connection problem, database problem, application problem,…).
OK	The notification has been successfully processed or the request message has been successfully received or the notification details requested in the corresponding XML request message has been found (response messages). *When a Port notification has been sent and there is no definition of any authority in SSN associated to the NextPortOfCall a warning is appended in the StatusMessage: "Warning: Port identification not compliant. Please complete the Port Authority identification in SSN".* *When a Hazmat notification has been sent with Sent_At > ETD a warning is appended in the StatusMessage: "Warning: SentAt must be prior to the ETD".* When an update on a PortPlus notification is sent without the initial PortPlus with UpdateStatus="N" for the same ShipCallId, a warning is appended in the *StatusMessage: "Warning: The original PortPlus notification must be send"*. When a notification has been sent for a banned vessel a warning is appended in the *StatusMessage:"Warning: The vessel is currently banned from Community ports and anchorages*

		pursuant to Art.16 or Art. 21.4 of Directive 2009/16/EC of 23 April 2009 on port State control. If you need further information please contact your National Competent Authority". When a notification has been sent for a single hull tanker a warning is appended in the *StatusMessage:"Warning: The reported vessel is Single Hull Tanker".* When a notification has been sent and the ship identification does not match with the information in the SSN list of ships a warning is appended in the *StatusMessage: "Warning: the vessel identification elements in SSN Registry are IMONumber:[], MMSINumber:[], Calsign, ShipName:".* When a notification has been sent and the ship identification MID digits included in the MMSI do not match with the information reported in the flag attribute a warning is appended in the *StatusMessage:"Warning: The MID digits included in the reported MMSI refer to a different country from the one reported with the flag attribute".* When a notification has been sent and the reported LoCode although technically correct is not registered in UNECE a warning is appended in the *StatusMessage:" Warning: The location code [XXYYY] is not registered in UNECE".*
	NotFound	The notification details requested in the corresponding XML request message does not exist. This value may only be used by SSN-EIS in an XML response message. *Attribute value not available for MS2SSN_messages*
	NotAvailable	The data provider system is temporarily unavailable (e.g. due to planned and announced maintenance). *Attribute value not available for MS2SSN_messages*
	AccessDenied	The user (identified via the *From* attribute of the *Header* element) is not allowed to send the corresponding XML request/notification or doesn't exist.

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.

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.59 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, theres 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)
NLRTM	Rotterdam (Netherlands)
PTLIS	Lisboa (Portugal)

Vessel Identification

Introduction The vessel identification element node contains five attributes:

- IMONumber

- MMSINumber

- CallSign

- ShipName

- Flag (only in the PortPlus)

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

IMO Number format A 7-digit unique code. The IMO ship identification number is a permanent number assigned to each qualifying ship for identification purposes (referenece 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

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

Base64 Encoding and Decoding

Introduction
As explained earlier (see "Data Provider capabilities" at page 25), 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
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Hazmat_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="5851917322644400" MSRefId="REQ-Test-0123XY" Version="2.0"
     To="NCATEST1" SentAt="2008-02-24T11:15:16Z" From="SSN" />
  - <Body>
      <SearchCriteria MMSINumber="246361000" IMONumber="9315006" />
    - <NotificationDetails SentAt="2008-02-20T04:47:55" From="ncaplgdy1">
        <VesselIdentification ShipName="OOCL ST.PETERSBURG" CallSign="PHCZ" IMONumber="9315006" />
        <VoyageInformation ETD="2008-02-21T05:00:00Z" TotalPersonsOnBoard="10"
         NextPortOfCall="PLNOW" ETA="2008-02-20T05:00:00Z" />
        <Base64Details DocType="XML"
         Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGl290KDQo=" />
      </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 221). In case of a request, the system provides a URL to the *data requestor*. Should this URL would point to the *data provider* server where the document is actually stored, the *data requestor* would use it to download the document directly from the *data provider's* server.

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

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

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

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

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

Technical approach for URL masking
The SSN central system creates the SSN2MS_ShipCall_Res message with UrlDetails > Url attributes set to the new SSN Urls respectively.

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

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

- HTTP StatusCode = 202; //SC_NO_CONTENT;
    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 acknowledgemnt of receipt to every Incidentdetail message (SSN2MS_IncidentDetail_Tx).
- In the case that any of the aforementioned messages is compliant to the corresponding XSD or the notification message has been successfully validated and processed the SSN_Receipt message Status Code will be set to 'OK'.
- In the case that any of the aforementioned messages is not compliant to the corresponding XSD or the notification is invalid the SSN_Receipt message Status Code will be set to 'InvalidFormat'.

When to send this message?   The following figure illustrates the ~~four~~ cases when this message must be sent:
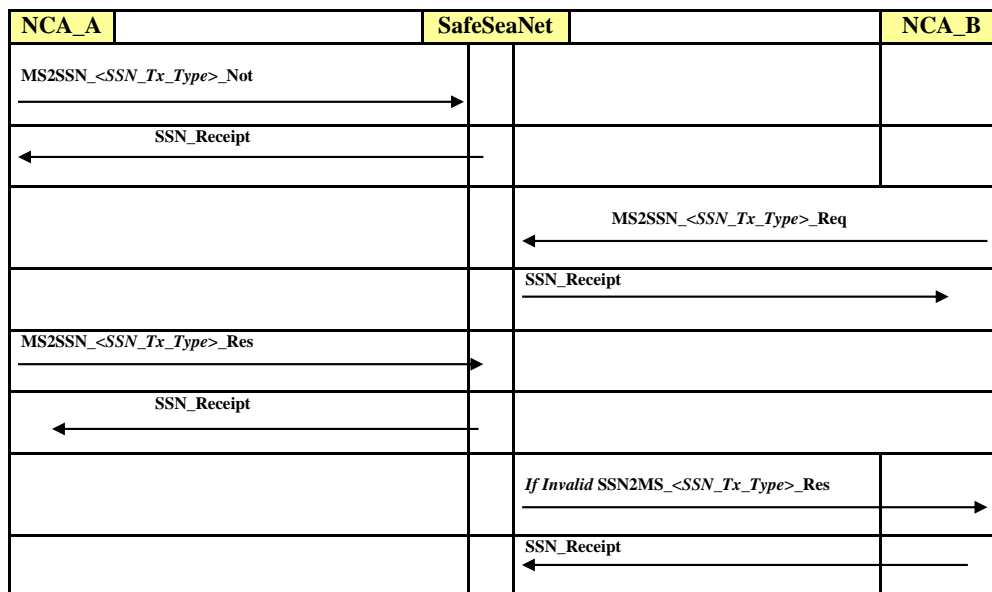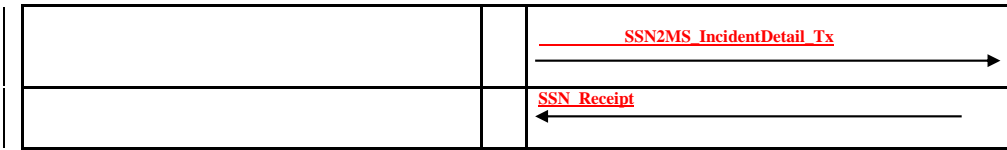
NCA_A	SafeSeaNet		NCA_B
MS2SSN_*<SSN_Tx_Type>*_Not →			
← SSN_Receipt			
		← MS2SSN_*<SSN_Tx_Type>*_Req	
	SSN_Receipt →		
MS2SSN_*<SSN_Tx_Type>*_Res →			
← SSN_Receipt			
		If Invalid SSN2MS_*<SSN_Tx_Type>*_Res →	
		← SSN_Receipt	

		SSN2MS_IncidentDetail_Tx
		SSN_Receipt

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

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 owns some kind of information. Such XML messages include theNotifications of type:

- Ship
- Security
- Alert
- PortPlus

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 following section.

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

Member State (data provider)		SafeSeaNet
MS2SSN_<SSN_Tx_Type>_Not →		
←	SSN_Receipt	
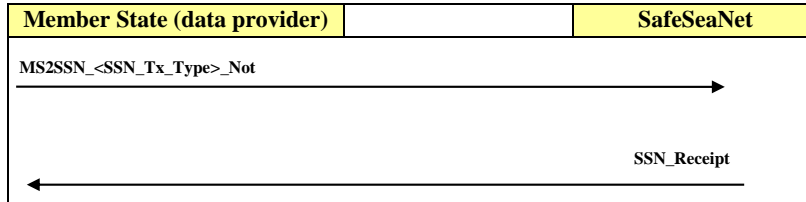
The different types of notifications (*<SSN_Tx_Type>*) are:

- Port
- Ship
- Hazmat
- Security
- Alert
- PortPlus
- IncidentDetails

Flow of the IncidentDetail XML messages   The following figure outlines the expected **asynchronous** flow of XML messages specific to the districution of the IncidentDetails XML notification details to the Member State recipients upon receipt of the *MS2SSN_IncidentDetail_Not* from the Data Provider.

NCA A (Data Provider)		SafeSeaNet		NCAs (B, C, D..) (Data Recipients)

MS2SSN_IncidentDetail_Not

SSN_Receipt

SSN2MS_IncidentDetail_Tx

SSN_Receipt

IF no SSN_Receipt or
SSN_Receipt witgh StatusCode <> "OK"
THEN

Email (warning) to recipients NCAs 24/7 and MMS (cc)

SSN2MS_IncidentDetail Tx_Ack
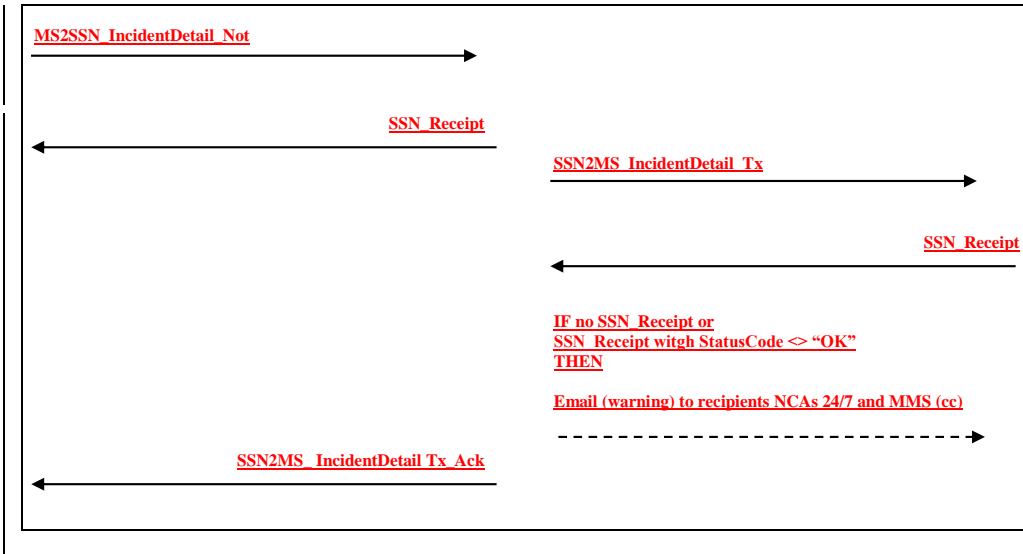
Contents   This section contains the following topics:

Topic	See Page
MS2SSN_Ship_Not.xml message	71
MS2SSN_Security_Not.xml message	83
MS2SSN_Alert_Not.xml message	86
MS2SSN_PortPlus_Not.xml message	89
MS2SSN_PortPlus_Not.xml message	104

MS2SSN_Port_Not.xml message

Introduction The **MS2SSN_Port_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet that a given vessel is bound to a particular port with an estimated time of arrival and a number of persons aboard.

Notification details This notification already contains all its detailed information. Therefore, SafeseaNet will store the details of the notification in its central database and will then act as the *Data Provider* when a request for getting detailed information about this notification comes in.

Please refer to "Section 3.5 – Get Port Notification Details" at page 114 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.

Elements			Attributes	Occ
Header				*1*
-			Version	1
			TestId	0 1
			MSRefId	1
			SentAt	1
			From	1
Body				*1*
-	*Notification*			*1*
	-	*VesselIdentification*		*1*
		-	IMONumber	0 1
			MMSINumber	0 1
			CallSign	0 1
			ShipName	0 1
		VoyageInformation		*1*
		-	NextPortOfCall	1
			ETA	0 1
			ETD	0 1
			TotalPersonsOnBoard	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 B of this document.

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

Item	Occ	Description
To	1	none
Body	1	**Body Node**
Notification	1	*Notification* **element node**
VesselIdentification	1	*VesselIdentification* **element node.** The vessel identification attributes (IMO number, MMSI, Call Sign, ship name) have to be checked against a reference ship database.
IMONumber	0-1	Mandatory if *MMSINumber* not given. IMO number 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
VoyageInformation	1	*VoyageInformation* **element node**
NextPortOfCall	1	This attribute indicates the **actual** next port of call, e.g. if the port of Oostende is sending this notification, then this *NextPortOfCall* attribute must be the location code of Oostende (BEOST) and not the next port of call after Oostende. The cancellation of a previous port notification is merely a new port notification for which the NextPortOfCall attribute value is "ZZCAN". E.g. during the voyage, the master of the ship receives new orders from his head office. The new destination is now port of Stockholm instead of Amsterdam. Upon receiving this information, the Master of the ship has the obligation to inform Amsterdam about these changes but he has not obligation to indicate his new port of destination. In this case, Amsterdam must transmit a new port notification message to SSN, cancelling the one sent previously, by indicating that the next port of call is "ZZCAN" and then ETA and ETD attributes are not given. The "next port of call" attribute cannot be unknown ("ZZUKN"). The "next port of call" attribute must only be the LOCODE of the specific port of call or its dependent port's LOCODEs.
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. May only be optional if *NextPortOfCall* attribute value is ZZCAN (this may only occur due to a cancellation of a port notification message). ETA<ETD in UTC.
ETD	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 departure from next port of call (ETD > ETA). May only be optional if *NextPortOfCall* attribute value is ZZCAN (this may only occur due to a cancellation of a port notification message).
TotalPersonsOnBoard	1	**-99999** if actually unknown and in case NextPortOfCall="ZZCAN".

Example of a normal port notification

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Port_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="PORT-NOT-Test-04653AB" SentAt="2007-12-16T06:23:27Z"
      From="TEST01" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="7203699" MMSINumber="219303000" CallSign="OWOA6"
          ShipName="MARIA SOLTIN" />
        <VoyageInformation NextPortOfCall="NLAMS" ETA="2007-12-15T12:15:00Z" ETD="2007-12-
          16T20:30:00Z" TotalPersonsOnBoard="12" />
      </Notification>
    </Body>
  </MS2SSN_Port_Not>
```

A possible scenario for the above port notification could be the following:

- A vessel has left port of Lisbon and is bound for port of Amsterdam. The master of the ship must transmit to the port of Amsterdam the following information:
  - ETA: 15 Dec 07 at 12h15 (UTC)
  - ETD: 16 Dec 07 at 20h30 (UTC)
  - Total persons on board: 12

~~MS2SSN_Port_Not.xml message,~~ ~~Continued~~

~~Example of a~~
~~normal port~~
~~notification~~
~~(continued)~~

- ~~Upon receiving this information, the port of Amsterdam sends the notification to SSN using the XML message shown above.~~

~~Cancellation of~~
~~a previous Port~~
~~Notification~~

~~The cancellation of a previous port notification is merely a new port notification for which the *NextPortOfCall* attribute value could be unknown ("ZZCAN").~~

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Port_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="PORT-NOT-Test-04653Ac" SentAt="2007-12-16T09:23:27Z"
      From="TEST01" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="7203699" MMSINumber="219303000" CallSign="OWOA6"
          ShipName="MARIA SOLTIN" />
        <VoyageInformation NextPortOfCall="ZZCAN" TotalPersonsOnBoard="99999" />
      </Notification>
    </Body>
  </MS2SSN_Port_Not>
```

~~A possible scenario for the above « cancellation » of a port notification could be the following:~~

- ~~A vessel has left port of Lisbon and is bound for port of Amsterdam. The master of the ship has informed the port of Amsterdam which in turn has notified SSN (previous example).~~
- ~~During his voyage, the master of the ship receives new orders from his head office. The new destination is now port of Stockholm. Upon receiving this information, the master of the ship has the obligation to inform Amsterdam about these changes but he has not obligation to indicate his new port of destination. In this case, Amsterdam must transmit a new port notification message (as shown above) to SSN, cancelling the one sent previously, by indicating that the next port of call is unknown (the *NextPortOfCall* attribute is "ZZCAN" and then, the *ETA* and *ETD* attributes are not given).~~

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 "Section 3.7 - Get Ship Notification Details" at page 152 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.

MS2SSN_Ship_Not.xml message, Continued

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
		VesselIdentification			*1*
				IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
		VoyageInformation			*1*
				NextPortOfCall	1
				ETA	0-1
				TotalPersonsOnBoard	1
			ShipPosition		*1*
				Longitude	1
				Latitude	1
		NotificationDetails			*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

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
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**
AISNotification	**0-1**	***AISNotification* element node. Not allowed if *MRSNotification* specified**
…		▪
MRSNotification	**0-1**	***MRSNotification* element node. Not allowed if *AISNotification* specified**
…		▪

AISNotification element   The following table describes the *AISNotification* element that must be used when the notification is of type AIS. Beside some minor differences with the MRS notification (e.g. Total number of persons on board missing), the major difference resides in the fact that the details of the AIS notification can only be provided as an XML message (see "MS2SSN_Ship_Res.xml message" at page 157) and not as a document on a web server.

Item	Occ	Description
AISNotification	**0-1**	***AISNotification* element node. Not allowed if *MRSNotification* specified**
VesselIdentification	**1**	***VesselIdentification* element node** No checking rules to be applied in the AIS notification to keep the original information and no reject messages.
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	**1**	***AISVoyageInformation* element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown. Considering the actual situation with the vast majority of the AIS messages include the actual name and not the Locode described in many different ways, the SSN Group decided not to reject notifications containing more than 5 characters in this attribute. Member States requesting through the web will receive the original content of the attribute. Member States when requesting through the XML these messages will receive ZZUKN.

Item	Occ	Description
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. May only be optional if *NextPortOfCall* attribute value is unknown. The national SSN systemshould convert the AIS date format (MMDDHHMM) into the ISO format. As an example it could be done the following way: − SS should be 00 − YYYY should be the year the message was sent provided the day/month are greater than the day/month of the timestamp. Otherwise it will be YYYY+1. − Default values are month MM = 0 day DD = 0, hour HH = 24, minutes MM = 60 are not compatible with ISO standards Proposal: − If MM or DD has default value, ETA shouldn't be provided If HH or MM has default value, for the ETA the following dummy has to be employed: 23:59:59.
ShipPosition	1	*ShipPosition* element node
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 reporting.

MRSNotificatio n element   The following table describes the *MRSNotification* element that must be used when the notification is of type MRS. Besides some minor differences with the AIS notification (e.g. Total number of persons on board mandatory), the major difference is that the details of the MRS notification could be provided as a document on a web server.

Item	Occ	Description
MRSNotification	0-1	*MRSNotification* **element node. Not allowed if** ***AISNotification* specified**
VesselIdentification	1	*VesselIdentification* **element node** The message identifier attributes (IMO number, MMSI, Call Sign, ship name) have to be checked against a reference ship database.
IMONumber	0-1	Mandatory if *MMSINumber* not given. Has to be checked if not existing in the reference database.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	1	*MRSVoyageInformation* **element node**
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).

Item	Occ	Description
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.
ShipPosition	**1**	*ShipPosition* **element node**
Longitude	1	none
Latitude	1	none
NotificationDetails	**0-1**	*NotificationDetails* **element node.** ▪ If not specified, that means the MRS notification details can be obtained from the data provider in XML (see "MS2SSN_Ship_Res.xml message" at page 157) ▪ If specified, that means the MRS notification details is available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).
UrlDetails	0-1	**Element indicating the type and the url of the document containing the MRS notification details (if the *data provider* will store the document on a local web server). Not allowed if *ContactDetails* specified.**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	**Element indicating the contact details to obtain the notification details (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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	Phone number (country code included) of the contact person. Only numbers and the symbol "+" are allowed. No spaces allowed. .
Fax	1	Fax number (country code included) of the contact person. Only numbers and the symbol "+" are allowed. No spaces allowed. .
EMail	0-1	Email address of the contact person.

Example of an AIS ship notification

```xml
<?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:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SHIP-NOT-MRS-XML-35" SentAt="2007-02-09T06:38:09Z"
      From="NCATEST1" To="SSN" />
  - <Body>
    - <MRSNotification>
        <VesselIdentification IMONumber="7128899" CallSign="IPNP" />
      - <VoyageInformation NextPortOfCall="GRSAL" ETA="2007-02-09T07:37:00Z"
          TotalPersonsOnBoard="35">
          <ShipPosition Longitude="-7220333" Latitude="33059166" />
        </VoyageInformation>
      </MRSNotification>
    </Body>
  </MS2SSN_Ship_Not>
```

Examples of an MRS ship notification (continued)

The following example illustrates a MRS notification which details is available as a Word document and can be downloaded by SSN from the specified url:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SHIP-NOT-URL-88" SentAt="2007-02-09T06:27:24Z" From="NCATEST1"
      To="SSN" />
  - <Body>
    - <MRSNotification>
        <VesselIdentification IMONumber="5270088" MMSINumber="725000730" />
      - <VoyageInformation NextPortOfCall="GRPIR" ETA="2007-02-09T07:25:00Z"
          TotalPersonsOnBoard="18">
          <ShipPosition Longitude="-39432000" Latitude="20135500" />
        </VoyageInformation>
      - <NotificationDetails>
          <UrlDetails Url="https://test.gov.com/static/files/details.pdf" DocType="PDF" />
        </NotificationDetails>
      </MRSNotification>
    </Body>
  </MS2SSN_Ship_Not>
```

The following example illustrates a MRS notification which details can only be requested by phone or fax:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SHIP-NOT-MRS-CONT-56" SentAt="2007-02-09T05:27:24Z"
      From="NCATEST1" To="SSN" />
  - <Body>
    - <MRSNotification>
        <VesselIdentification IMONumber="7203699" MMSINumber="219303000" CallSign="OWOA6"
          ShipName="MARIA SOLTIN" />
      - <VoyageInformation NextPortOfCall="GRPIR" ETA="2007-01-29T06:25:00Z"
          TotalPersonsOnBoard="16">
          <ShipPosition Longitude="-39432000" Latitude="20135500" />
        </VoyageInformation>
      - <NotificationDetails>
          <ContactDetails Phone="+3099565656" Fax="+3099565656" EMail="GRPIR01@nca.gr"
            LoCode="GRPIR" />
        </NotificationDetails>
      </MRSNotification>
    </Body>
  </MS2SSN_Ship_Not>
```

MS2SSN_Hazmat_Not.xml message

Introduction   The **MS2SSN_Hazmat_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet that a given vessel carries dangerous or polluting goods and that the Member State owns some detailed information about these goods.

This notification must ensure that the vessel and the cargo, if dangerous and/or polluting (DPG), are identified when visiting an EU port. So, it must be sent by the MS of the port of destination if the vessel is coming from a non EU port (or unknown) and by the MS of the Port of departure if the vessel is leaving an EU port, regardless of her destination.

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

MS2SSN_Hazmat_Not.xml message, Continued

Elements				Attributes	Occ
Header					1
-				Version	1
				TestId	0-1
				MSRefId	1
				SentAt	1
				From	1
				To	1
Body					1
-	Notification	-			1
	-	VesselIdentification	-		1
		-	-	IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
		VoyageInformation			1
		-	-	NextPortOfCall	1
				ETA	0-1
				ETD	0-1
				TotalPersonsOnBoard	1
		NotificationDetails			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
	CargoManifest				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

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 B of this document.

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* element node(s). Only 1 element node might be given
VesselIdentification	1	*VesselIdentification* element node The message identifier attributes (IMO number, MMSI, Call Sign, ship name) have to be checked against a reference ship database.
IMONumber	0-1	Mandatory if *MMSINumber* not given. Has to be checked if not existing in the reference database.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	1	*VoyageInformation* element node
NextPortOfCall	1	Location code of next port of call (even if vessel goes outside EU) or the location code of the defined "waypoints". Can be "ZZUKN" if the next port of call is unknown. For vessel coming to an EU port from outside EU, the "next port of call" attribute cannot be "ZZUKN". The "next port of call" attribute must be the LOCODE of this port of call (next port of call) or its dependent port's LOCODE. For vessels leaving a port of a MS the "next port of call" attribute has to be checked against the reference LOCODEs database (waypoints LOCODEs included).
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. If the vessel is leaving an EU port both ETD (from this port) and the ETA (to the next port, regardless if it is EU or non EU) are compulsory. ETA should not be filled in if NextPortOfCall attribute value is unknown or the defined "waypoints". For vessel arriving at an EU port coming for outside EU, the ETA at the port of destination (EU port) cannot be unknown.
ETD	0-1	Date and time of the estimated time of departure from the loading port. Can only be optional if the vessel is arriving from a non EU port. ETD<ETA.

TotalPersonsOnBoard	1	99999 if actually unknown.
NotificationDetails	0 1	*NotificationDetails* element node.
		• If not specified, that means the Hazmat notification details can be obtained from the data provider in XML (see "MS2SSN_Hazmat_Res.xml message" at page 144)
		• If specified, that means the Hazmat notification details is available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).
UrlDetails	0 1	Element indicating the type and the url of the document containing the notification details (if the *data provider* will store the document on a local web server). Not allowed if *ContactDetails* specified.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0 1	Element indicating the contact details to obtain the notification details (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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.
EMail	0 1	Email address of the contact person.
CargoManifest	1	*CargoManifest* element node. The cargo manifest should be available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).
UrlDetails	0 1	Element indicating 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). Not allowed if *ContactDetails* specified.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0 1	Element indicating the contact details to obtain the cargo manifest (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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.
EMail	0 1	Email address of the contact person.

Examples

The following example illustrates a Hazmat notification which details can be requested by SSN to the data provider via the *SSN2MS_Hazmat_Req.xml* message. The *CargoManifest* element indicates that the cargo manifest is available as a PDF document and can be downloaded by SSN from the specified url.

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Hazmat_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="HAZMAT-NOT-CARG-5454" SentAt="2007-01-30T06:28:56Z"
      From="GRPIR01" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="9876543" />
        <VoyageInformation NextPortOfCall="GRPIR" ETA="2007-01-30T06:28:00Z" ETD="2007-01-
          29T08:28:00Z" TotalPersonsOnBoard="54" />
      - <CargoManifest>
          <UrlDetails Url="https://test.gov.com/static/files/test_file.pdf" DocType="PDF" />
        </CargoManifest>
      </Notification>
    </Body>
  </MS2SSN_Hazmat_Not>
```

The following example illustrates a Hazmat notification which details is available as a Word document and can be downloaded by SSN from the specified url:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Hazmat_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="HAZMAT-NOT-CARG-5454" SentAt="2007-01-30T06:28:56Z"
      From="GRPIR01" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="9876543" />
        <VoyageInformation NextPortOfCall="GRSAL" ETA="2007-01-30T06:28:00Z" ETD="2007-01-
          28T08:28:00Z" TotalPersonsOnBoard="54" />
      - <NotificationDetails>
          <UrlDetails Url="https://test.gov.com/static/files/test_file_D.doc" DocType="DOC" />
        </NotificationDetails>
      - <CargoManifest>
          <UrlDetails Url="https://test.gov.com/static/files/test_file_CM.doc" DocType="DOC" />
        </CargoManifest>
      </Notification>
    </Body>
  </MS2SSN_Hazmat_Not>
```

Examples (continued)

The following example illustrates a Hazmat notification which details can only be requested by phone or fax:

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Hazmat_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="HAZMAT-NOT-CONT-CARG-57" SentAt="2007-12-09T06:28:56Z"
      From="NCATEST1" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="7203699" MMSINumber="219303000" CallSign="OWOA6"
          ShipName="MARIA SOLTIN" />
        <VoyageInformation NextPortOfCall="PTLIS" ETA="2007-12-11T06:28:00Z" ETD="2007-12-
          10T08:28:00Z" TotalPersonsOnBoard="54" />
      - <NotificationDetails>
          <ContactDetails Phone="+3032222222" Fax="+303222222" LoCode="PTLIS" />
        </NotificationDetails>
      - <CargoManifest>
          <ContactDetails Phone="+3032222222" Fax="+303222222" LoCode="PTLIS" />
        </CargoManifest>
      </Notification>
    </Body>
  </MS2SSN_Hazmat_Not>
```

MS2SSN_Security_Not.xml message

Introduction   The **MS2SSN_Security_Not.xml** message is sent by a Member State to SafeSeaNet in order to notify SafeSeaNet that the Member State owns some detailed security information about a given vessel.

Note   The security message was initially in the list of SSN messages but after launching the discussion on reviewing the content of the security message in order to harmonise it with the relevant decisions of the MARSEC Committee, some Member States expressed concerns about the inclusion of the security message into SSN. The COSS Committee discussed on the issue but till present no final decision has been taken and therefore the inclusion of the security message into SSN is still pending.

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
				SentAt	1
				From	1
				To	1
Body					*1*
	Notification				*1*
		VesselIdentification			*1*
				IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
		NotificationDetails			*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

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
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* element node(s). Only 1 element node might be given**
VesselIdentification	**1**	***VesselIdentification* element node**
IMONumber	0-1	Mandatory if *MMSINumber* not given. Has to be checked against a reference database.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
NotificationDetails	**0-1**	***NotificationDetails* element node.** ▪ If not specified, that means the Security notification details can be obtained from the data provider in XML (see "MS2SSN_Security_Res.xml message" at page 190) ▪ If specified, that means the Security notification details is available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).
UrlDetails	0-1	**Element indicating the type and the url of the document containing the notification details (if the *data provider* will store the document on a local web server). Not allowed if *ContactDetails* specified.**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	**Element indicating the contact details to obtain the notification details (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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.
EMail	0-1	Email address of the contact person.

Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Security_Not xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SECURITY_NOT_XML_69" SentAt="2007-02-09T09:30:15Z"
      From="NCATEST1" To="SSN" />
  - <Body>
    - <Notification>
        <VesselIdentification IMONumber="5270088" />
      </Notification>
    </Body>
  </MS2SSN_Security_Not>
```

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

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.

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

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.

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.** ▪ 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 202) ▪ If specified, that means the incident details is available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).

Item	Occ	Description
UrlDetails	0-1	**Element indicating the type and the url of the document containing the notification details (if the *data provider* will store the document on a local web server). Not allowed if *ContactDetails* specified.**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	**Element indicating the contact details to obtain the incident details (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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.
EMail	0-1	Email address of the contact person.

Example of an alert for an identified ship

```xml
<?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" MMSINumber="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
<?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>
      </Incident>
    </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   This section describes the PortPlus XML message that must be used by a Member State (acting as *Data Provider*) to notify SafeSeaNet that the Member State owns some kind of information related to a ship call.

The PortPlus Notification message aims to cope with different types of notifications needs like:

- 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 in a EU port;
- Departure notification, upon actual ship's departure in a EU port;
- Notification of dangerous and polluting goods carried onboard a ship leaving or bound for an EU port (HAZMAT).

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

MS2SSN_PortPlus_Not.xml message, Continued

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
				ETDFromLastPort	0-1
				ETAToPortOfCall	0-1
				ETDFromPortOfCall	0-1
				NextPort	0-1
				ETAToNextPort	0-1
		PreArrival3DaysNotificationDetails			**0-1**
				PossibleAnchorage	0-1
				PlannedOperations	0-1
				PlannedWorks	0-1
				ShipConfiguration	0-1
				CargoVolumeNature	0-1
				ConditionCargoBallastTanks	0-1
		PreArrival24HoursNotificationDetails			**0-1**
				POBVoyageTowardsPortOfCall	1
		ArrivalNotificationDetails			**0-1**
				ATAPortOfCall	1
				Anchorage	0-1
		DepartureNotificationDetails			**0-1**
				ATDPortOfCall	1
		HazmatNotificationInfoNonEUDepartures			**0-1**
			HazmatCargoInformation		**1**
				HazmatOnBoardYorN	1
				INFShipClass	0-1
			DG		**0-99**

Elements					Attributes	Occ
					DGClassification	1
				HazmatNotificationDetails		*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
				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
			HazmatNotificationInfoEUDepartures			*0-1*
				HazmatCargoPOBInformation		*1*
					HazmatOnBoardYorN	1
					INFShipClass	0-1
					POBVoyageTowardsNextPort	1
				DG		*0-99*
					DGClassification	1
				HazmatNotificationDetails		*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
				CargoManifest		*0-1*
					UrlDetails	*0-1*
						Url	1
						DocType	1
					ContactDetails	*0-1*
						LastName	0-1
						FirstName	0-1
						LoCode	1
						Phone	1

Elements					Attributes	Occ
					Fax	1
					EMail	0-1

Specification Following some specific rules affecting the PortPlus XML message.

No.	General Rule
1	An empty string is accepted as a possible of an attribute's value. When an empty string is provided the interpretation made is that the data provider wishes to delete a previously sent value and set the value of attribute to *Null*. An empty string is not allowed for mandatory attributes and attributes included within the *VoyageInformation* element. *Empty string* means an empty attribute as in e.g. *PlannedWorks=""*.
2	Every time a PortPlus message is sent, only element(s) of interest have to be declared. In case of an update (UpdateStatus="U") only elements already declared in previous message(s) concerning the same ship call and those being updated (or newly declared) have to be quoted. Declaration of empty elements not having any updating purpose is not permitted
3	A PortPlus message is available for updates in the following 120 days after the SentAt date. If no updates are received the message will expiry.

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
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**
NotificationStatus	**0-1**	**NotificationStatus Element Node.**
UpdateStatus	1	The following rules should be consider whenever a message is sent with UpdateStatus=U Update process and relevant rules 1. PortPlus message includes a number of optional elements which are to be selected and included in the

Item	Occ	Description
		message by the dispatcher due to the event to be reported (pre-arrival, arrival, departure etc.). For example, in case of a pre-arrival notification, the message may include the **PreArrival3DaysNotificationDetails**, the **PreArrivalNotification24HoursDetails** and the **HazmatNotificationInfoNonEUdepartures** elements information. An update message should always include: o The elements including the attributes to be updated. These elements should be found among those included in the original message identified by the UpdateMSRefId o Additional optional elements (should there be operational reasons for their inclusion) o The elements previously provided by the former message being updated 2. The update procedure will ONLY affect attributes that were reported in the elements included in the original message(s). Therefore the values of those updated attributes will replace and update those already in the SSN database. Non-updated attributes will be kept unchanged 3. To the scope of updating an existing data-field, an empty string can be quoted. In this case, it will force replacing aformerly declared value with a 'null' value. 4. Should an update message with UpdateMSRefId be received by the SSN EIS before the original message has been registered in the SSN EIS (e.g. due to some error or technical delay,) SSN will nevertheless register the updated message in its database. In such cases, the so received update will be temporarily kept by SSN-EIS as standing-by for the "New" one to be registered. An e-mailed warning will be sent to the 24/7 NCA of the country that sent the update message, requesting and reminding them to forward the original message(s) as soon as possible. 5. Should two messages or more be received with UpdateStatus=N for the same ship call (and same ShipCallId), the second/ third , etc will be rejected by the SSN-EIS
UpdateNotifications	0 - 99	**UpdateNotifications element node.** ("child" to the **NotificationStatus element)** Mandatory in case of UpdateStatus="U" (update) Used to identify previous message (s) that include information thay is to be updated. The message(s) containing information to be updated are identified by ~~the~~ their MSRefId(s) quoted as value(s) of the UpdateMSRefId attribute
UpdateMSRefId	1	Mandatory in case of UpdateStatus="U" (update)
Notification	1	**Notification element node - 1 Notification element can be i Only in the message**
VesselIdentification	1	**VesselIdentification element node** ("child" to the **Notification element)** The vessel identification attributes (IMO number, MMSI,

Item	Occ	Description
		Call Sign, ship name) must be checked by NCA against an owned ship reference database. Shall the SSN-EIS system receive a PortPlus with an existing ShipCallId but for another vessel, the message will be rejected with StatusCode="InvalidFormat" and StatusMessage="A ShipCallId has already been sent from user_id_xyz". If the IMO number is included in a first notification, it has to be provided in all further notifications and cannot be removed or modified. In the case where the IMO number is not provided, then the rule applies on the MMSI number, until an IMO number is provided. The rejection criteria applied upon the ship's identity check are: 1. should in the previous notification is quoted the IMO number (regardless of the MMSI number) and in the subsequent message the IMO number is changed; 2. should in the previous notification is quoted only the MMSI number (IMO=null) and in the subsequent message MMSI is changed (still IMO=null)
IMONumber	0-1	Mandatory if MMSI Number is not provided. It shall be checked if not existing in the reference database
MMSINumber	0-1	Mandatory if IMO Number not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	If the MMSI is included in the notification and the MID digits included in the reported MMSI refer to a different country from the one reported with the flag attribute, the notification will not be rejected but a warning message will be send to the data provider
VoyageInformation	**1**	**VoyageInformation element node** ("child" to the **Notification element)**
ShipCallId	1	It will be used by SSN to keep track of all the notifications relevant to a specific PortPlus message. The ShipCallId must be unique per national SSN system. Updates of information that relate to the same PortPlus message must be sent with message(s) that have the same ShipCallId.
LastPort	0-1	none
PortOfCall	1	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 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 appears among the permitted locations for the same notifying Authority **Port of Call cancellation:** In case of cancellation of an expected ship call, the value of this attribute is "ZZCAN". E.g. during the voyage, the master of the ship receives new orders from his head office. The new destination is now port of Stockholm instead of Amsterdam. Upon receiving this information, the Master of

Item	Occ	Description
		the ship has the obligation to inform Amsterdam about these changes but he has not obligation to indicate his new port of destination. In this case, Amsterdam must transmit an additional PortPlus notification message to SSN, cancelling the one sent previously, by indicating that this field the value "ZZCAN". **Cancellation of a Port Plus notification can only be done before the arrival of the ship**. **All the Port Plus notifications relevant to the ShipCallId that were sent previously will be discarded.** A cancellation message should be sent to SSN EIS with **UpdateStatus = U**
PositionInPortOfCall	0-1	none
ETDFromLastPort	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm)

ETAToPortOfCall	0-1	Format "YYYY-MM-DDThh:mm:ssTZD"
		 Where TZD = time zone designator (Z or +hh:mm or -hh:mm)
		 ETAToPortOfCall < ETDFromPortOfCall in
		 May only be optional if :
		 PortOfCall attribute value is ZZCAN (this may only occur due to a cancellation of a pre-arrival notification message),
		    o Should an ATAPortOfCall and/ or ATDPortOfCall are not declared in the same message: ETAToPortOfCall < ETDFromPortOfCall
		    o If an ATAPortOfCall and/ or ATDPortOfCall value is declared in the same message any value included here will be ignored by the SSN EIS

ETDFromPortOfCall	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 departure from port of call
		 Mandatory for notification messages including the **PreArrivalNotification24HoursDetails** element or the **HazmatNotificationInfoEUDepartures element**
		    o Should the ATDPortOfCall is not declared in the same message: ETDFromPortOfCall > ETATo PortOfCall;
		
		    o If an ATDPortOfCall value is declared in the same message any value included here will be ignored by SSN EIS

NextPort	0-1	Mandatory in case of including the HazmatNotification InfoEUDepartures in the notification message and HazmatOnBoardYorN of the HazmatNotificationInfoEUDepartures-element is equal 'Y'. NextPort can be equal to PortOfCall in the PortPlus notification even if the PortPlus message includes the Hazmat EU departure element In case of delivery of Hazmat to another ship at sea or offshore location with udefined LOCODE it is recommended to specify in the notification as Next port the waypoint 'XZOFF'

Item	Occ	Description
ETAToNextPort	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm) Mandatory in case of including the HazmatNotificationInfoEUDepartures in the notification message and HazmatOnBoardYorN of the HazmatNotificationInfoEUDepartures-element is equal 'Y', except if NextPort is unknown ('ZZUKN') If NextPort=ZZUKN and ETAToNextPort is provided, this value will be ignored by the system. ETAToNextPort>ATDPortOfCall and ETAToNextPort>ETDPortOfCall
PreArrival3DaysNotification Details	**0-1**	**PreArrival3DaysNotificationDetails element node.** ("child" to the **Notification element**) To be provided, at least three days from expected arrival to the Port of Call for all the vessels bound for an expanded inspection according to the PSC directive and if MS does not have in place other arrangements to provide this information directly to PSC officers. Otherwise optional. If the element is included in the message, at least one of the attributes in the PreArrival3DaysNotificationDetails element must be defined.
PossibleAnchorage	0-1	none
PlannedOperations	0-1	none
PlannedWorks	0-1	none
ShipConfiguration	0-1	Should be provided in the case of tankers
CargoVolumeNature	0-1	Should be provided in the case of tankers
ConditionCargoBallastTanks	0-1	Should be provided in the case of tankers
PreArrival24HoursNotification Details	**0-1**	**PreArrival24HoursNotificationDetails element node.** ("child" to the **Notification element**) Mandatory whenever the portPlus message is used for reporting on 24h PreArrival and/or HAZMAT information for voyages initiated from a non-EU port. May also be used to update the POBVoyageTowardsPortOfCall information upon the actual arrival of the vessel to the port of call.
POBVoyageTowardsPortOfCall	1	99999 if actually unknown
ArrivalNotificationDetails	**0-1**	**ArrivalNotificationDetails element node** ("child" to the **Notification element**)
ATAPortOfCall	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). ATAPortOfCall < ATDPortOfCall
Anchorage	0-1	none
DepartureNotificationDetails	**0-1**	**DepartureNotificationDetails element node.** ("child" to the **Notification element**)
ATDPortOfCall	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). ATAPortOfCall< ATDPortOfCall

Item	Occ	Description
HazmatNotification InfoNonEUDepartures	**0-1**	**HazmatNotificationInfoNonEUDepartures** first-level element node for voyages initiated from a Non-EU port ("child" to the **Notification element**)
HazmatCargoInformation	**1**	**HazmatCargoInformation** second level-element node ("child" to the **HazmatNotification InfoNonEUdepartures element**)
HazmatOnBoardYorN	1	In case the value in <u>this field is "N" any</u> HazmatNotification InfoNonEUDepartures details will be ignored. **Hazmat On Board cancelation:** <u>In case of cancellation of Hazmat On Board details notified previously to SSN with a PortPlus notification the data provider must transmit an additional PortPlus notification message to SSN, cancelling the Hazmat On Board details sent previously, by indicating in this field the value "N".</u> **<u>Cancellation of Hazmat On Board details means that all the HazmatNotification InfoNonEUDepartures attribute values relevant to the ShipCallId that were sent previously will be discarded.</u>** <u>A cancellation message should be sent to SSN EIS with</u> **<u>UpdateStatus = U.</u>**
INFShipClass	**0-1**	**Enhances the provision of HAZMAT summary in case of request.**
DG	**0 - 99**	**Dangerous goods classification element**
DGClassification	1	none
HazmatNotificationDetails	**0-1**	**HazmatNotificationDetails** second element node. ("child" to the **HazmatNotificationInfoNonEUDepartures element**) If not specified (OCC=0) and **HazmatOnBoardYorN = Y** , that means the Hazmat notification details can be obtained from the data provider in XML (see "MS2SSN_ShipCall_Res.xml message" at page 195 of the XML Reference guide) If specified, that means the Hazmat notification details are available as a document on a web server (UrlDetails must then be specified) or via a phone/fax (ContactDetails must then be specified).
UrlDetails	0-1	Second level element node (child to **HazmatNotificationDetails** indicating the type and the url of the document containing the notification details (if the data provider will store the document on a local web server). Not allowed if ContactDetails specified.
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	Second level element node (child to **HazmatNotificationDetails** indicating the contact details to obtain the notification details (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails 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

Item	Occ	Description
		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.
CargoManifest	0-1	**CargoManifest second level element** ("child" to the **HazmatNotificationInfoNonEUDepartures element**) "When *HazmatOnBoardYorN* = "Y" the CargoManifest is mandatory." The cargo manifest should be available as a document on a web server (UrlDetails must then be specified) or via a phone/fax (ContactDetails must then be specified).
UrlDetails	0-1	Third level element node (child to **CargoManifest**) element node indicating 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). Not allowed if ContactDetails specified.
Url	1	The Uri must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	Third level element node (child to **CargoManifest**) indicating the contact details to obtain the cargo manifest (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails 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.
EMail	0-1	none
HazmatNotification InfoEUDepartures	0-1	**HazmatNotificationInfoEUDepartures first level element node for voyages initiated from a EU port** ("child" to the **Notification element**)
HazmatCargoPOBInformation	1	**HazmatCargoPOBInformation second level element node** ("child" to the **HazmatNotificationInfoEU Departures** element)
HazmatOnBoardYorN	1	In case the value in this field is "N" any HazmatNotification InfoEUDepartures details will be ignored. **Hazmat On Board cancelation:** In case of cancellation of Hazmat On Board details notified previously to SSN with a PortPlus notification the data provider must transmit an additional PortPlus notification message to SSN, cancelling the Hazmat On Board details sent previously, by indicating in this field the value "N".

Item	Occ	Description
		Cancellation of Hazmat On Board details <u>means that all the</u> HazmatNotification InfoEUDepartures attribute values <u>relevant to the ShipCallId that were sent previously will be discarded.</u> <u>A cancellation message should be sent to SSN EIS with</u> **<u>UpdateStatus = U.</u>**
INFShipClass	0-1	Enhances the provisioning of HAZMAT summary in case of request.
POBVoyageTowardsNextPort	1	99999 if actually unknown
DG	**0 - 99**	**Dangerous goods classification element**
DGClassification	1	none
HazmatNotificationDetails	**0-1**	**HazmatNotificationDetails second level element nod** ("child" to the **HazmatNotificationInfoEUDepartures** element**).** ▪ If not specified (OCC=0) and HazmatOnBoardYorN=Y , that means the Hazmat notification details can be obtained from the data provider in XML (see "MS2SSN_ ShipCall _Res.xml message" at page 176195 of the XML Reference guide) ▪ If specified, that means the Hazmat notification details is available as a document on a web server (UrlDetails must then be specified) or via a phone/fax (ContactDetails must then be specified).
UrlDetails	0-1	Second level element node (child to **HazmatNotificationDetails**) indicating the type and the url of the document containing the notification details (if the data provider stores the document on a local web server). Not allowed if ContactDetails specified.
Url	1	The Uri must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	Second level element node (child to **HazmatNotificationDetails**) indicating the contact details to obtain the notification details (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails 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.
EMail	0-1	none
CargoManifest	0-1	**CargoManifest second level element** ("child" to the **HazmatNotificationInfoEUDepartures** element**).** **"When *HazmatOnBoardYorN* = "Y" the CargoManifest is mandatory."**

Item	Occ	Description
		The cargo manifest should be available as a document on a web server (UrlDetails must then be specified) or via a phone/fax (ContactDetails must then be specified).
UrlDetails	0-1	Third level element node (child to **CargoManifest**) indicating the type and the url of the document containing the cargo manifest (if the data provider stores the document on a local web server). Not allowed if ContactDetails specified.
Url	1	The Uri must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	Third level element node (child to **CargoManifest**) indicating the contact details to obtain the cargo manifest (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails 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.
EMail	0-1	Email address of the contact person.

Example of an PortPlus notification

PreArrival3Days notification example:

```xml
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="TST-000000021264-0001" SentAt="2011-03-21T12:02:16Z"
    From="NCANLTST1" To="SSN" />
  <Body>
    <NotificationStatus UpdateStatus="N" />
    <Notification>
      <VesselIdentification IMONumber="9136931"
        MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
      <VoyageInformation ShipCallId="SC-000000021264"
        LastPort="TRIST" PortOfCall="NLRTM" ETDFromLastPort="2011-03-22T18:00:00Z"
        ETAToPortOfCall="2011-03-24T12:30:00Z" ETDFromPortOfCall="2011-03-25T13:00:00Z" />
      <PreArrival3DaysNotificationDetails
        PossibleAnchorage="Y" PlannedOperations="unloading and loading"
        PlannedWorks="maintenance" ShipConfiguration="SHT-SBT"
        CargoVolumeNature="containers" ConditionCargoBallastTanks="empty" />
    </Notification>
  </Body>
</MS2SSN_PortPlus_Not>
```

PreArrival24hours and HazmatNotificationInfoNonEUDepartures notification example:

```xml
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="TST-000000021264-0002"
    SentAt="2011-03-23T12:22:56Z" From="NCANLTST1" To="SSN" />
  <Body>
    <NotificationStatus UpdateStatus="U">
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0001" />
    </NotificationStatus>
    <Notification>
      <VesselIdentification IMONumber="9136931"
        MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
      <VoyageInformation ShipCallId="SC-000000021264"
        LastPort="TRIST" PortOfCall="NLRTM"
        ETDFromLastPort="2011-03-22T18:00:00Z"
        ETAToPortOfCall="2011-03-24T12:30:00Z"
        ETDFromPortOfCall="2011-03-25T13:00:00Z" />
      <PreArrival3DaysNotificationDetails
        PossibleAnchorage="Y" PlannedOperations="unloading and loading"
        PlannedWorks="maintenance" ShipConfiguration="SHT-SBT"
        CargoVolumeNature="containers" ConditionCargoBallastTanks="empty" />
      <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="5" />
      <HazmatNotificationInfoNonEUDepartures>
        <HazmatCargoInformation HazmatOnBoardYorN="Y">
          <DG DGClassification="IBC" />
        </HazmatCargoInformation>
        <CargoManifest>
          <ContactDetails LoCode="NLRTM" Fax="987654321" Phone="123456789" />
        </CargoManifest>
      </HazmatNotificationInfoNonEUDepartures>
    </Notification>
  </Body>
</MS2SSN_PortPlus_Not>
```

Arrival notification example:

```xml
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="TST-000000021264-0003"
    SentAt="2011-03-23T12:32:51Z" From="NCANLTST1" To="SSN" />
  <Body>
    <NotificationStatus UpdateStatus="U">
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0001" />
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0002" />
    </NotificationStatus>
    <Notification>
      <VesselIdentification IMONumber="9136931"
        MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
      <VoyageInformation ShipCallId="SC-000000021264"
        LastPort="TRIST" PortOfCall="NLRTM"
        ETDFromLastPort="2011-03-22T18:00:00Z"
        ETAToPortOfCall="2011-03-24T12:30:00Z"
        ETDFromPortOfCall="2011-03-25T13:00:00Z" />
      <PreArrival3DaysNotificationDetails
        PossibleAnchorage="Y" PlannedOperations="unloading and loading"
        PlannedWorks="maintenance" ShipConfiguration="SHT-SBT"
        CargoVolumeNature="containers" ConditionCargoBallastTanks="empty" />
      <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="5" />
      <ArrivalNotificationDetails ATAPortOfCall="2011-03-23T12:32:20Z"/>
      <HazmatNotificationInfoNonEUDepartures>
        <HazmatCargoInformation HazmatOnBoardYorN="Y">
          <DG DGClassification="IBC" />
        </HazmatCargoInformation>
        <CargoManifest>
          <ContactDetails LoCode="NLRTM" Fax="987654321" Phone="123456789" />
        </CargoManifest>
      </HazmatNotificationInfoNonEUDepartures>
    </Notification>
  </Body>
</MS2SSN_PortPlus_Not>
```

Departure and HazmatNotificationInfoEUDepartures notification example:

```xml
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:eu.emsa.ssn ssn.xsd">
  <Header Version="2.0" MSRefId="TST-000000021264-0004"
    SentAt="2011-03-25T13:07:10Z" From="NCANLTST1" To="SSN" />
  <Body>
    <NotificationStatus UpdateStatus="U">
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0001" />
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0002" />
      <UpdateNotifications UpdateMSRefId="TST-000000021264-0003" />
    </NotificationStatus>
    <Notification>
      <VesselIdentification IMONumber="9136931"
        MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
      <VoyageInformation ShipCallId="SC-000000021264"
        LastPort="TRIST" PortOfCall="NLRTM"
        ETDFromLastPort="2011-03-22T18:00:00Z"
        ETAToPortOfCall="2011-03-24T12:30:00Z"
        ETDFromPortOfCall="2011-03-25T13:00:00Z"
        NextPort="FIHEL" ETAToNextPort="2011-03-26T03:25:00Z" />
      <PreArrival3DaysNotificationDetails
        PossibleAnchorage="Y" PlannedOperations="unloading and loading"
        PlannedWorks="maintenance" ShipConfiguration="SHT-SBT"
        CargoVolumeNature="containers" ConditionCargoBallastTanks="empty" />
      <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="5" />
      <ArrivalNotificationDetails ATAPortOfCall="2011-03-23T12:32:20Z"/>
      <DepartureNotificationDetails ATDPortOfCall="2011-03-25T13:07:08Z"/>
      <HazmatNotificationInfoNonEUDepartures>
        <HazmatCargoInformation HazmatOnBoardYorN="Y">
          <DG DGClassification="IBC" />
        </HazmatCargoInformation>
        <CargoManifest>
          <ContactDetails LoCode="NLRTM" Fax="987654321" Phone="123456789" />
        </CargoManifest>
      </HazmatNotificationInfoNonEUDepartures>
      <HazmatNotificationInfoEUDepartures>
        <HazmatCargoPOBInformation POBVoyageTowardsNextPort="7" HazmatOnBoardYorN="Y">
          <DG DGClassification="IMDG"/>
        </HazmatCargoPOBInformation>
        <CargoManifest>
          <ContactDetails LoCode="NLRTM" Fax="987654321" Phone="123456789"/>
        </CargoManifest>
      </HazmatNotificationInfoEUDepartures>
    </Notification>
  </Body>
</MS2SSN_PortPlus_Not>
```

Section 3.5 - Send IncidentDetail Notifications

Overview

Introduction   This section describes the different XML messages a Member State (acting as *Data Provider*) may use, on a voluntary basis, the new type of IncidentDetails message to notify SafeSeaNet that in turn will distribute to the recipient Member States information about a specific incident type. The 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 districution of the IncidentDetails XML notification details to the Member State recipients upon receipt of the *MS2SSN_IncidentDetail_Not* from the Data Provider.

NCA_A (Data Provider)		SafeSeaNet		NCAs (B, C, D..) (Data Recipients)

MS2SSN_IncidentDetail_Not →

← **SSN_Receipt**

SSN2MS_IncidentDetail_Tx →

← **SSN_Receipt**

**IF no SSN_Receipt or
SSN_Receipt witgh StatusCode <> "OK"
THEN**

Email (warning) to recipients NCAs 24/7 and MMS (cc)
- →

← **SSN2MS_IncidentDetail_Tx_Ack**

Contents   This section contains the following topics:

MS2SSN_IncidentDetail_Not.xml message

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

Elements					Attributes	Occ
Header						*1*
					Version	1
					TestId	0-1
					MSRefId	1
					SentAt	1
					From	1
					To	1
Body						*1*
	Notification					*1*
		Incident				*1*
			IncidentIdentification			*1*
					Type	1
					IncidentID	1
					ReportSequence	0-1
				AssociatedIncidentReportList		0-99

Elements									Attributes	Occ
-	-	-	-	-	-	-	-	-	AssociatedIncidentReport	1
-	-	*IncidentNotificationStatus*						-	-	*1*
-	-	-							UpdateStatusReason	1
-	-	-						*UpdateMSRefIdList*	-	0-99
-	-	-						-	UpdateMSRefId	1
-	-	-						*UpdateSSNRefIdList*	-	0-99
-	-	-						-	UpdateSSNRefId	1
-	-	*IRDistributionDetails*				-	-		-	*1*
-	-	-							DistributionIR_yes_no	1
-	-	-				-	-	-	IRDistributionToFlagState	0-1
-	-	-					IRRecipientList		-	0-99
										-
-	-	-					-		IRRecipient	1
-	-	*IRVesselIdentificationList*				-		-	-	*0-99*
-	-	-			*IRVesselIdentification*				-	*1*
-	-	-		-	*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

Elements								Attributes	Occ
-	-	-	-	-	-	-	-	DocType	1
-	-	-	-	-	-	-	*ContactDetails*		0-1
-	-	-	-	-	-	-	-	LastName	0-1
-	-	-	-	-	-	-	-	FirstName	0-1
-	-	-	-	-	-	-	-	LoCode	1
-	-	-	-	-	-	-	-	Phone	1
-	-	-	-	-	-	-	-	Fax	1
-	-	-	-	-	-	-	-	EMail	0-1
-	-	-	-	-	*ShipPositionAtTheTimeIncident*				0-1
-	-	-	-	-	-	GeoCoordinates			0-1
-	-	-	-	-	-	-	Longitude		1
-	-	-	-	-	-	-	Latitude		1
-	-	-	-	-	-	Area	-		0-1
-	-	-	-	-	-	-	GeographicalArea		1
-	-	-	-	-	-	BearingDistance			0-1
-	-	-	-	-	-	-	Bearing		1
-	-	-	-	-	-	-	Distance		1
-	-	-	-	-	-	-	Mark		1
-	-	-	-	-	*ShipPositionAttimeOfReporting*				0-1
-	-	-	-	-	-	GeoCoordinates			0-1
-	-	-	-	-	-	-	Longitude		1
-	-	-	-	-	-	-	Latitude		1
-	-	-	-	-	-	Area	-		0-1
-	-	-	-	-	-	-	GeographicalArea		1
-	-	-	-	-	-	BearingDistance			0-1
-	-	-	-	-	-	-	Bearing		1
-	-	-	-	-	-	-	Distance		1
-	-	-	-	-	-	-	Mark		1
-	-	-	*AuthorityReportingIncident*						0-1
-	-	-	-				*SSNUserIdentifier*		0-1
								SSNUserI~R~D	1
-	-	-					*IdentificationOfAuthority*		0-1
-	-	-	-					AuthorityName	0-1

Elements								Attributes	Occ
-	-	-	-					LoCode	1
-	-	-	-					Phone	1
-	-	-	-					Fax	1
-	-	-	-	-	-	-	-	Email	0-1
-	-	-	*RequestForActionList*						0-99
-	-	-	-	*RequestForActionDetails*					1
-	-	-	-	-				MSRequestedToDoAction	1
-	-	-	-	-	-	-	-	ActionRequestedDetail	1
-	-	-	*IncidentDetailsDocument*						0-1
-	-	-	-	*Base64Details*	-	-	-		0-1
-	-	-	-	-				DocType	1
-	-	-	-	-	-	-	-	Base64Content	1
-	-	-	*IncidentDetails*						0-1
-	-	-	-	*WasteIncidentInformation*			-		0-1
-	-	-	-	-	*NonComplianceInformation*				1
-	-	-	-	-	-	-		WasteDeliveryDuePort	1
-	-	-	-	-	-	-		ETD	1
-	-	-	-	-	-	-	-	InspectionReason	1
-	-	-	-	-	*InspectionInformation*		-		0-1
-	-	-	-	-	-	-		Deficiencies	1
-	-	-	-	-	-	-	-	ActionTaken	1
-	-	-	-	-	*InspectionAuthority*				1
-	-	-	-	-	-	-		Name	1
-	-	-	-	-	-	-		Phone	1
-	-	-	-	-	-	-		Fax	0-1
-	-	-	-	-	-	-	-	EMail	0-1
-	-	-	-	*SITREPIncidentInformation*			-		0-1
-	-	-	-	-	*SITREPInformation*		-		1
-	-	-	-	-	-	*C_Situation*	-		1
-	-	-	-	-	-	-	-	MessageType	1
-	-	-	-	-	-	-	-	NotifiedAt	1
-	-	-	-	-	-	-	-	Nature	1
-	-	-	-	-	-	-	-	D_NumberOfPersonsAtRisk	0-1
-	-	-	-	-	-	-	-	E_AssistanceRequired	0-1

Elements									Attributes	Occ
-	-	-			-		-	-	F_CoordinatingAuthority	0-1
-	-	-			-		-	-	G_CasualtyDescription	0-1
-	-	-			-		-	-	H_WeatherOnScene	0-1
-	-	-			-		-	-	J_InitialActionTaken	1
-	-	-			-		-	-	K_SearchArea	0-1
-	-	-			-		-	-	L_CoordinatingInstructions	0-1
-	-	-			-		-	-	M_FuturePlans	0-1
-	-	-			-		-	-	N_AdditionalInformation	0-1
-	-	-		***POLREPIncidentInformation***				-		***0-1***
-	-	-			***POLREPInformation***			-		***1***
-	-	-			***POLWARN***		-	-		***0-1***
-	-	-				-		-	P1_DateTime	1
-	-	-				-		-	P3_Incident	0-1
-	-	-				-		-	P4_Outflow	0-1
-	-	-				-		-	P5_Acknowledge	0-1
-	-	-				***P2_Position***				***1***
-	-	-					***GeoCoordinates***			0-1
-	-	-					-		Longitude	1
-	-	-					-		Latitude	1
-	-	-					***Area***	-		0-1
-	-	-					-		GeographicalArea	1
-	-	-					***BearingDistance***			0-1
-	-	-					-		Bearing	1
-	-	-					-		Distance	1
-	-	-					-		Mark	1
-	-	-			***POLINF***		-	-		***0-1***
-	-	-				-		-	P40_DateTime	0-1
-	-	-				-		-	P41_PollutionPosition	0-1
-	-	-				-		-	P42_PollutionChars	0-1
-	-	-				-		-	P43_PollutionSource	0-1
-	-	-				-		***P44_Wind***	-	***0-1***

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

Elements								Attributes	Occ
-	-	-		-		-	-	Name	1
-	-	-		-		-	-	P86_ChangeOfCommand	0-1
-	-	-		-		-	-	P87_ExchangeOfInformation	0-1
-	-	-		-		-	-	P88_OtherInformation	0-1
-	-	-		-		-	-	-	P99_Acknowledge	0-1
-	-	-	*LostFoundObjectIncidentInformation*						*0-1*
-	-	-		-	*LostFoundObjectInformation*				*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-∞*

Elements	Attributes	Occ
	Description	1
	CargoLeaking	0-1
Wind		*0-1*
	Speed	1
	Direction	1
Tide		*0-1*
	Speed	1
	Direction	1
SeaState		*0-1*
	WaveHeight	1
	Visibility	0-1
ObjectDrift		*0-1*
	DriftCourse	1
	DriftSpeed	1
FailedNotificationtIncidentInformation		*0-1*
Description		*1*
<TBD>		-
VTSRulesInfringementIncidentInformation		*0-1*
Description		*1*
<TBD>		-
BannedShipIncidentInformation		*0-1*
Description		*1*
<TBD>		-
InsuranceFailureIncidentInformation		*0-1*
Description		*1*
<TBD>		-
PilotOrPortReportIncidentInformation		*0-1*
Description		*1*
<TBD>		-
OtherIncidentInformation		*0-1*
Description		*1*
<TBD>		-
<TBD>		-
FeedbackInformation		*0-1*

Elements								Attributes	Occ
	-	-	-	-	*FeedbackIdentification*	-		-	*1*
	-	-	-	-		-	-	FeedbackID	1
	-	-	-	-	*FeedbackDistri bution*		-	-	*0-1*
	-	-	-	-			-	DistributionFeedback_ yes_no	1
	-	-	-	-			-	FeedbackDistributionT oFlagState	0-1
	-	-	-	-		FeedbackRecipientList			0-99
	-	-	-	-		-	-	FeedbackRecipient	1
	-	-	-	-	*ReportOfAction_Information*		-	-	*1*
	-	-	-	-		*AuthorityReportingAction*		-	*1*
	-	-	-	-	-		-	-	AuthorityName	1
	-	-	-	-	-		-	-	LoCode	0-1
	-	-	-	-	-		-	-	Phone	1
	-	-	-	-	-		-	-	Fax	0-1
	-	-	-	-	-		-	-	EMail	0-1
	-	-	-	-		*ReportActionDetails*		-	*0-1*
	-	-	-	-	-		-	-	Details	1
	-	-	-	-		*ReportActionDocument*		-	*0-1*
	-	-	-	-	-		-	-	DocType	1
	-	-	-	-	-		-	-	Base64Content	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.

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	*1*	**Incident Node**
IncidentIdentification	*1*	**Incidentidentification Node**

Item	Occ	Description
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. 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: UpdateStatusReason="U" (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). Feedback of information related to an incident report message must be sent with the IncidentId of the original incident Report (UpdateStatusReason="F"). *Proposed structure: 2 letter country code + operational number at national level*. The IncidentID replaces also the old attribute "SitrepID"
ReportSequence	0-1	Optional only if UpdateStatusReason="D"
AssociatedIncidentReportList	*0-99*	**AssociatedIncidentReportList Node**
AssociatedIncidentReport	1	none
IncidentNotificationStatus	*1*	**IncidentNotificationStatus element note.**
UpdateStatusReason	1	The first message shall have the value "N" (New) **The following rules should be considered whenever a message is sent with UpdateStatusReason="U" (Update) Update process and relevant rules:** 1. An update message should always include: . The elements including the attributes to be updated. These elements should be found among those included in the original message identified by the UpdateMSRefId . Additional optional elements (should there be operational reasons for their inclusion) . The unchanged elements previously provided in the former message. 2. The update procedure will ONLY affect attributes that were reported in the elements included in the original message(s). Therefore the values of those updated attributes will replace and be kept and and update those already in the SSN database. Non-updated or not quoted attributes will be kept unchanged. 3. To remove an existing data-field previously provided, an empty string can be quoted. In this case, it will replace a formerly declared value with a null value declared as " ". 4. Should an update message with UpdateMSRefId be received by the SSN EIS before the original message has been registered in the SSN EIS (e.g. due to some error or technical delay,) SSN will

Item	Occ	Description
		nevertheless register the updated message in its database. In such cases, the update will be kept by SSN-EIS. An e-mailed warning will be sent to the 24/7 NCA of the country that sent the update message, requesting and reminding them to forward the original message(s) as soon as possible. 5. Should two messages or more be received with UpdateStatusReason=N for the same Incident ID, the second/ third , etc will be rejected by the SSN-EIS. 6. UpdateStatusReason="D" (delete) can only be used by the initiator of the Incident Report. 7. If UpdateStatusReason="D" (delete) only the following fields Type, the IncidentID and the AuthorityReportingIncident are required. 8. If UpdateStatusReason= "F" (Feedback) the user will be able only to add data under the element "FeedbackInformation". He/She could not modify the data in the notification
UpdateMSRefIdList	0-99	-
UpdateMSRefId	1	Mandatory in case of UpdateStatus="U" (update) or "D" (Delete). ~~Mandatory in case of an update of an previouslly sent Feedback message (with UpdateStatus="F").~~ Used to identify previous message(s) that include information thay is to be updated/deleted. The previous MSRefId(s) shall be quoted as value(s) in the UpdateMSRefId attribute.
UpdateSSNRefIdList	0-99	-
UpdateSSNRefId	1	Mandatory in case of UpdateStatus="F" (feedback). Not to be included if UpdateStatusReason="N" (new), "U" (update), "D" (delete)
IRDistributionDetails	*1*	**DistributionDetails element node. Mandatory for distributed Incident reports.**
DistributionIR_yes_no	1	2 values Y or N. If "Y" is quoted then "IRRecipientList" and/or "IRDistributionToFlagState" shall be quoted.
IRRecipientList	0-99	-
IRRecipient	1	Mandatory in case IRDistributionToFlagState not provided
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
IRVesselIdentificationList	*0-99*	**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** **- ResultInspection**

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

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.
ShipPositionAtTheTimeIncident	*0-1*	**ShipPositionAtTheTimeIncident element node. Mandatory for Incident type SITREP with vessel identified**
GeoCoordinates	*0-1*	**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
Area	*0-1*	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	*0-1*	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
ShipPositionAtTimeOfReporting	*0-1*	**ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTheTimeIncident**
GeoCoordinates	*0-1*	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	*0-1*	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	*0-1*	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
AuthorityReportingIncident	*0-1*	**To define the authority responsible for the reporting of this incident report (e.g. VTS, MRCc etc…). Recommendation: Authorities reporting incidents should be defined as SSN users (authorities or web users)**
SSNUserIdentifier	*0-1*	SSN user identification. If provided, IdentificationOfAuthority (AuthorityName/ Locode/

Item	Occ	Description
		Phone/Fax/Email) should not be included. If included shall be ignored.
SSNUserID	1	The authority ID or web-user ID as defined by the data provider in the SSN central's management console. If provided, AuthorityName/ Locode/ Phone/Fax/Email should not be included. If included shall be ignored
IdentificationOfAuthority	0-1	Identification of authority. If provided, *SSNUserIdentifier* should not be included. If included shall be ignored.
AuthorityName	0-1	Not to be included if SSNUserID is provided - if quoted will be ignorednone
LoCode	1	Not to be included if SSNUserID is provided - if quoted will be ignorednone
Phone	1	Only numbers and the symbol "+" are allowed. No spaces allowed. Not to be included if SSNUserID is provided - if quoted will be ignored
Fax	1	Only numbers and the symbol "+" are allowed. No spaces allowed. Not to be included if SSNUserID is provided - if quoted will be ignored
EMail	0-1	Email address of the contact person. Not to be included if SSNUserID is provided - if quoted will be ignored
RequestForActionList	*0-99*	**RequestForActionList element node.**
RequestForActionDetails	*1*	**RequestForActionDetail element node.**
MSRequestedToDoAction	1	Country to which a request for actions is send. If the List of recipient(IRRecipientList) does not include this country, the Incident report will be distributed by default to the country quoted in "MSRequestedToDoAction" (Alpha-2 (two-digits) in accordance with standard ISO 3166-1)
ActionRequestedDetail	1	Content of the action requested to the recipient MS
IncidentDetailsDocument	*0-1*	**IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as a complementary information of IncidentDetails.** **Not allowed if UpdateStatusReason="F".**
Base64Details	*0-1*	Base64Details element node, child of IncidentDetailsDocument. Element indicating the document containing the notification details is embedded in the message in Base64Details.
DocType	1	Extensions are case insensitive
Base64Content	1	none
IncidentDetails	*0-1*	**Incidentdetails element node. Only 1 element node might be given. Mandatory if IncidentDetailsDocument not provided.** **Not allowed if UpdateStatusReason="F".**
WasteIncidentInformation	*0-1*	**WasteIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.** **Only valid if IncidentIdentification / Type="Waste".**
NonComplianceInformation	*1*	**NonComplianceInformation element node.**
WasteDeliveryDuePort	1	none

Item	Occ	Description
ETD	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
InspectionReason	1	none
InspectionInformation	*0-1*	**InspectionInformation element node.**
Deficiencies	1	none
ActionTaken	1	none
InspectionAuthority	*1*	**InspectionAuthority element node.**
Name	1	none
Phone	1	Only numbers and the symbol "+" are allowed. No spaces allowed.
Fax	0-1	Only numbers and the symbol "+" are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
SITREPIncidentInformation	*0-1*	**SITREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="SITREP".**
SITREPInformation	*1*	**SITREPInformation element node**
C_Situation	*1*	**C_Situation element node**
MessageType	1	none
NotifiedAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
Nature	1	none
D_NumberOfPersonsAtRisk	0-1	Can be 'zero' when SITREP refers to a vessel that has been fully evacuated. If the number of persons at risk is unknown, the dummy value "99999" should be used. 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_CoodinatingAuthority" is not mandatory.none 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
POLREPIncidentInformation	*0-1*	**POLREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="POLREP".**

Item	Occ	Description
POLREPInformation	*1*	**POLREPInformation element node.** At Least one of the three elements POLWARN, POLINF or POLFAC has to be provided.
POLWARN	*0-1*	**POLWARN element node.** Initial notice (a first information or a warning of a casualty or the presence of oil slicks or harmful substances. Mandatory if POLINF or POLFAC not provided.
P1_DateTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
P3_Incident	0-1	none
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~~none~~
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.**

Item	Occ	Description
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. Mandatory if POLWARN or POLINF not provided.
P80_DateTime	0-1	If it varies from POLWARN and POLINF. Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Date and time when the alert has been notified.
P81_RequestForAssistance	0-1	none
Assistance	*0-1*	**Assistance element node. If "Assistance" is quoted then at least one of the 3 attributes ("P82_Cost", "P83_PreArrangements", "P84_Delivery") is mandatory**
P82_Cost	0-1	none
P83_PreArrangements	0-1	none
P84_Delivery	0-1	none
P85_InformedStateOrg	*0-99*	**InformedStateOrg element node.** Only if different from POLINF
Name	1	Name of other states and organisations informed
P86_ChangeOfCommand	0-1	none
P87_ExchangeOfInformation	0-1	none
P88_OtherInformation	0-1	none
P99_Acknowledge	0-1	When this number is used, the message (telefax) should be acknowledged as soon as possible by the competent national authority

Item	Occ	Description
LostFoundObjectIncidentInformation	*0-1*	**LostFoundObjectIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="LostFoundContainers".**
LostFoundObjectInformation	*1*	**LostFoundObjectInformation element node.**
P1_ReportType	1	none
P2_ShipOrObserverIdentification	*0-1*	**P2_ShipOrObserverIdentification element node.**
IMONumber	0-1	Mandatory if MMSINumber or Other not give. Has to be checked if not existing in the reference database.
MMSINumber	0-1	Mandatory if IMONumber or Other not give
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.
ObjectInformation	*1*	**ObjectInformation element node.**
P3_ObjectPosition	*1*	**P3_ObjectPosition element node.** Last seen position of the object at sea, or last position of ship when the object has presumably been lost
GeoCoordinates	*0-1*	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided.** **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
ObjectDetails	*0-1*	**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).~~none~~
P5_TypeOfGoods	0-1	none
Object	*0-□*	**Object element node.**
Description	1	none
CargoLeaking	0-1	none
Wind	*0-1*	**Wind element node.**
Speed	1	Indicates wind speed in m/sec.

Item	Occ	Description
Direction	1	The direction always indicates from where the wind is blowing.
Tide	*0-1*	**Tide element node.**
Speed	1	Indicates current speed of the tide in knots and tenths of knots.
Direction	1	The direction always indicates the direction in which the current tide is flowing.
SeaState	*0-1*	**SeaState element node.**
WaveHeight	1	none
Visibility	0-1	none
ObjectDrift	*0-1*	**ObjectDrift element node.**
DriftCourse	1	Indicates the drift course of containers in degrees
DriftSpeed	1	Indicates the drift speed of containers in knots and tenths of knots. In cases of air pollution (gas cloud), drift speed should be indicated in m/sec
FailedNotificationtIncidentInformation	*0-1*	**FailedNotificationIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="FailedNotificationt".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
VTSRulesInfringementIncidentInformation	*0-1*	**VTSRulesInfringementIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="VTSRulesInfringement".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
BannedShipIncidentInformation	*0-1*	**BannedShipIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="BannedShip".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
InsuranceFailureIncidentInformation	*0-1*	**InsuranceFailureIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="InsuranceFailure".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
PilotOrPortReportIncidentInformation	*0-1*	**PilotOrPortReportIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="PilotOrPortReport".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
OtherIncidentInformation	*0-1*	**OtherIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified. Only valid if IncidentIdentification / Type="Others".**
Description	*1*	Description of the incident (free text)
<TBD>	*.*	*.*
<TBD>	*.*	*.*

Item	Occ	Description
Feedbackinformation	*0-1*	**Feedback element node. Mandatory in case UpdateStatusReason="F" as result of RequestForAction="Y".** **Not valid if UpdateStatusReason="N", "U", "D"** **Not allowed if IncidentDetails or IncidentDetailsDocument element nodes specified.**
FeedbackIdentification	*1*	**FeedbackIdentification element node.**
FeedbackID	1	Unique identifier of feedback
FeedbackDistribution	*0-1*	FeedbackDistribution element node.
DistributionFeedback_yes_no	1	2 values Y or N. If "Y" is quoted then "FeedbackRecipientList" and/or "FeedbackDistributionToFlagState" shall be quoted.
FeedbackRecipientList	0-99	Mandatory in case FeedbackDistributionToFlagState not provided
FeedbackDistributionToFlagState	0-1	Mandatory in case FeedbackRecipientList not provided Only possible for SSN participants SSN participants flag ships. If quoted, an automatic function will pick up the recipients from the vessel identification details
ReportOfAction_Information	*1*	**ReportOfAction_Information element node, child of Feedback.**
AuthorityReportingAction	*1*	**AuthorityReportingAction element node.**
AuthorityName	1	none
LoCode	0-1	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	0-1	Only numbers and the symbol "+" are allowed. No spaces allowed.
EMail	0-1	Email address of the contact person.
ReportActionDetails	*0-1*	**ReportActionDetails element node**
Details	1	Description of the reported action (free text)
ReportActionDocument	*0-1*	**ReportActionDocument element node**
DocType	1	Extensions are case insensitive
Base64Content	1	none
<TBD>	*-*	*-*

Example of an IncidentDetail Notification

```xml
<?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="IncId01" Type="Waste" />
          <ssn:IncidentNotificationStatus UpdateStatusReason="N" />
          <ssn:IRDistributionDetails DistributionIR_yes_no="Y" IRDistributionToFlagState="GR" />
        - <ssn:IRVesselIdentificationList>
          - <ssn:IRVesselIdentification>
              <ssn:IRVessel_IdentityVerified CallSign="HMDOO" 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:ShipPositionAtTheTimeIncident>
                <ssn:Area GeographicalArea="North Aegean" />
              </ssn:ShipPositionAtTheTimeIncident>
            </ssn:IRVesselIdentification>
          </ssn:IRVesselIdentificationList>
          <ssn:AuthorityReportingIncident AuthorityName="GR POR AUTH" Fax="2101234567" LoCode="GRPIR"
            Phone="2101234567" />
        - <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.xml** message is sent (distributed) by SafeSeaNet in accordance with the distribution list to the recipient Member States information about a specific incident type. If the recipient Member States have chosen the XML mode, then the message will be "pushed" to the relevant NCAs.

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

Elements				Attributes	Occ
Header					*1*
				Version	1
				TestId	0-1
				SSNRefId	1
				SentAt	1
				From	1
				To	1
Body					*1*
DistributedDetails					*1*
Incident					*1*
IncidentIdentification					*1*
				Type	1
				IncidentID	1
				ReportSequence	0-1
		AssociatedIncidentReportList			0-99
				AssociatedIncidentReport	1
	IncidentNotificationStatus				*1*
				UpdateStatusReason	1
		UpdateSSNRefIdList			0-99
				UpdateSSNRefId	1
	IRRecipientListDetails				*0-1*
				IRDistributionToFlagState	0-1
		IRRecipientList			0-99

Elements	Attributes	Occ
	IRRecipient	1
ProvidersOfIncidentReport		1
	IRInitialProvider	1
IRFeedbackProviderList		0-99
	IRFeedbackProvider	1
IRVesselIdentificationList		0-99
IRVesselIdentification		1
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
ShipPositionAtTheTimeIncident		0-1
GeoCoordinates		0-1
	Longitude	1
	Latitude	1
Area		0-1
	GeographicalArea	1
BearingDistance		0-1
	Bearing	1
	Distance	1
	Mark	1

Elements								Attributes		Occ
-	-	-	-			-	-	*ShipPositionAttimeOfReporting*		*0-1*
-	-	-	-			-	-	GeoCoordinates		*0-1*
-	-	-	-			-	-	-	Longitude	1
-	-	-	-			-	-	-	Latitude	1
-	-	-	-			-	Area	-	-	*0-1*
-	-	-	-			-	-	-	GeographicalArea	1
-	-	-	-			-	BearingDistance			*0-1*
-	-	-	-			-	-	-	Bearing	1
-	-	-	-			-	-	-	Distance	1
-	-	-	-			-	-	-	Mark	1
-	-	*AuthorityReportingIncident*		-	-	-	-	-	-	*0-1*
-	-	-					SSNUserIdentifier			0-1
							-		SSNUserIR	1
							IdentificationOfAuthority			0-1
-	-	-						AuthorityName		0-1
-	-	-						LoCode		1
-	-	-						Phone		1
-	-	-						Fax		1
-	-	-						Email		0-1
-	-	*RequestForActionList*			-	-		-		*0-99*
-	-	-	-	*RequestForActionDetails*		-		-		*1*
-	-	-	-	-				MSRequestedToDoAction		1
-	-	-	-	-	-	-	-	ActionRequestedDetail		1
-	-	*IncidentDetailsDocument*								*0-1*
-	-	-	-	*Base64Details*		-		-		*0-1*
-	-	-	-	-				DocType		1
-	-	-	-	-	-	-	-	Base64Content		1
-	-	*IncidentDetails*								*0-1*
-	-	-	-	WasteIncidentInformation				-		*0-1*
-	-	-	-	-	NonComplianceInformation					*1*
-	-	-	-	-	-	-		WasteDeliveryDuePort		1
-	-	-	-	-	-	-		ETD		1
-	-	-	-	-	-	-	-	InspectionReason		1

Elements									Attributes	Occ
-	-	-	-			*InspectionInformation*		-	-	*0-1*
-	-	-	-		-	-	-		Deficiencies	1
-	-	-	-		-	-	-	-	ActionTaken	1
-	-	-	-		-	-	*InspectionAuthority*		-	*1*
-	-	-	-		-	-	-	-	Name	1
-	-	-	-		-	-	-	-	Phone	1
-	-	-	-		-	-	-	-	Fax	0-1
-	-	-	-		-	-	-	-	EMail	0-1
-	-	-		**SITREPIncidentInformation**				-	-	*0-1*
-	-	-			*SITREPInformation*			-	-	*1*
-	-	-	-			*C_Situation*		-	-	*1*
-	-	-	-		-	-	-		MessageType	1
-	-	-	-		-	-	-		NotifiedAt	1
-	-	-	-		-	-	-		Nature	1
-	-	-	-		-	-	-		D_NumberOfPersonsAtRisk	0-1
-	-	-	-		-	-	-		E_AssistanceRequired	0-1
-	-	-	-		-	-	-		F_CoordinatingAuthority	0-1
-	-	-	-		-	-	-		G_CasualtyDescription	0-1
-	-	-	-		-	-	-		H_WeatherOnScene	0-1
-	-	-	-		-	-	-		J_InitialActionsTaken	1
-	-	-	-		-	-	-		K_SearchArea	0-1
-	-	-	-		-	-	-		L_CoordinatingInstructions	0-1
-	-	-	-		-	-	-		M_FuturePlans	0-1
-	-	-	-		-	-	-		N_AdditionalInformation	0-1
-	-	-		**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*

Elements									Attributes		Occ
-	-	-	-	-	-	-	-	*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
-	-	-	-	-	-	-		-	CallSign		0-1

Elements	Attributes	Occ
	P50_ActionTaken	1
	P51_Photographs	0-1
P52_InformedStateOrg		**0-99**
	Name	1
	P53_OtherInformation	0-1
	P60_Acknowledge	0-1
POLFAC		**0-1**
	P80_DateTime	0-1
	P81_RequestForAssistance	0-1
Assistance		**0-1**
	P82_Cost	0-1
	P83_PreArrangements	0-1
	P84_Delivery	0-1
P85_InformedStateOrg		**0-99**
	Name	1
	P86_ChangeOfCommand	0-1
	P87_ExchangeOfInformation	0-1
	P88_OtherInformation	0-1
	P99_Acknowledge	0-1
LostFoundObjectIncidentInformation		**0-1**
LostFoundObjectInformation		**1**
	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

Elements										Attributes		Occ
-	-	-	-			-	-	-	-	-	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-☐*
-	-	-	-			-	-	-	-		Description	1
-	-	-	-			-	-	-	-		CargoLeaking	0-1
-	-	-	-			-	-	-	*Wind*	-		*0-1*
-	-	-	-			-	-	-	-		Speed	1
-	-	-	-			-	-	-	-		Direction	1
-	-	-	-			-	-	-	*Tide*	-	-	*0-1*
-	-	-	-			-	-	-	-		Speed	1
-	-	-	-			-	-	-	-		Direction	1
-	-	-	-			-	-	-	*SeaState*			*0-1*
-	-	-	-			-	-	-	-		WaveHeight	1
-	-	-	-			-	-	-	-		Visibility	0-1
-	-	-	-			-	-	-	*ObjectDrift*			*0-1*
-	-	-	-			-	-	-	-		DriftCourse	1
-	-	-	-			-	-	-	-		DriftSpeed	1
-	-	-	-			-	-	*FailedNotificationtIncidentInformation*					*0-1*
-	-	-	-			-	-	*Description*	-	-	-	*1*
-	-	-	-			-	-	*<TBD>*	-		-	-

Elements								Attributes	Occ
-	-	-	-	*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**		-	-	-		-	**0-99**
-	-	-	*FeedbackInformation*		-			-	*1*
-	-	-		*FeedbackIdentification*				-	*1*
-	-	-		-				FeedbackID	1
-	-	-		*FeedbackRecipientListDetails*				-	*0-1*
-	-	-		-				FeedbackDistributionToFlagState	0-1
-	-	-		-	*FeedbackRecipientList*				0-99
-	-	-		-	-			FeedbackRecipient	1
-	-	-		*ReportOfAction_Information*					*1*
-	-	-			*AuthorityReportingAction*				*1*
-	-	-			-	-		AuthorityName	1
-	-	-			-	-		LoCode	0-1
-	-	-			-	-		Phone	1
-	-	-			-	-		Fax	0-1
-	-	-			-	-		EMail	1
-	-	-			*ReportActionDetails*				*0-1*
-	-	-			-	-		Details	1

Elements							Attributes	Occ
-	-	-	-	-	-	*ReportActionDocument*		*0-1*
-	-	-	-	-	-		DocType	1
-	-	-	-	-	-	- -	Base64Content	1
-	-	-	-	-	-	*<TBD>* -	-	-

SSN2MS_ IncidentDetail_ Tx Business Rules   The following table describes the SSN2MS_IncidentDetail_Tx XML message used for the transaction and the applicable business rules. The detailed definition of the attributes is included in the Annex A of this document.

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	*1*	**Incident Node**
IncidentIdentification	*1*	**Incidentidentification Node**
Type	1	From original MS2SSNIncidentDetail_Not
IncidentID	1	
ReportSequence	0-1	
AssociatedIncidentReport	0-99	
IncidentNotificationStatus	*1*	**IncidentNotificationStatus element note.**
UpdateStatusReason	1	From original MS2SSNIncidentDetail_Not. If the operator wants to provide a feedback based on the "push message" he/she has to quote "F". The national system should create a new notification MS2SSN_IncidentDetail_Not. In this new message the content is automatically filled-in and based on the "push message" except for the attributes under the element "FeedbackInformation", which will be filled in by the feedback provider.
UpdateSSNRefId	0-99	
IRRecipientListDetails	*0-1*	**IRRecipientListDetails element node.**
IRRecipientList	0-99	From original MS2SSNIncidentDetail_Not. In addition, it includes the MS eventually not quoted in the attribute "IRREcipientList" in the notification which are recipient of actions (see busines rules for attribute "MSRequestedToDoAction")
IRDistributionToFlagState	0-1	
ProvidersOfIncidentReport	*1*	**ProvidersOfIncidentReport element node.**

Item	Occ	Description
IRInitialProvider	1	AuthorityName of AuthorityReportingIncident element node from original MS2SSNIncidentDetail_Not with UpdateStatus="N"
IRFeedbackProvider	0-99	AuthorityName of AuthorityReportidingAction element node from MS2SSNIncidentDetail_Not with UpdateStatus="F"
IRVesselIdentificationList	*0-99*	**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 - ResultInspection - InsuranceFailure - PilotOrPortReport**
IRVesselIdentification	*1*	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	
IRVessel_IdentityNotFullyVerified	*0-1*	IR**Vessel_IdentityNotFullyVerified element node.** Mandatory if IRVessel_IdentityVerified not provided.
DescribeVessel	1	From original MS2SSNIncidentDetail_Not
IRVoyageInformation	*0-1*	**IRVoyageInformation element node.**
PortofDeparture	0-1	From original MS2SSNIncidentDetail_Not.
PortOfDestination	0-1	
TotalPersonsOnBoard	0-1	
CargoManifest	*0-1*	**CargoManifest element node**
Details	1	If CargoManifest element node provided in MS2SSN_IncidentDetail_Not, this information is only available upon request to the central SSN system. In this case, the filed will quote: "Cargo manifest available upon request to central SSN system"

Item	Occ	Description
ShipPositionAtTheTimeIncident	*0-1*	**ShipPositionAtTheTimeIncident element node. Mandatory for Incident type SITREP with vessel identified**
GeoCoordinates	*0-1*	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
Area	*0-1*	
GeographicalArea	1	
BearingDistance	*0-1*	
Bearing	1	
Distance	1	
Mark	1	
ShipPositionAtTimeOfReporting	*0-1*	**ShipPositionAtTimeOfReporting element node. Not provided if the position is the same as ShipPositionAtTheTimeIncident**
GeoCoordinates	*0-1*	From original MS2SSNIncidentDetail_Not
Longitude	1	
Latitude	1	
Area	*0-1*	
GeographicalArea	1	
BearingDistance	*0-1*	
Bearing	1	
Distance	1	
Mark	1	
AuthorityReportingIncident	*1*	**AuthorityReportingIncident element node.**
SSNUserIdentifier	*0-1*	SSN user identification. If provided, IdentificationOfAuthority will not be provided.
SSNUserID	0-1	From original MS2SSNIncidentDetail_Not
IdentificationOfAuthority	0-1	Identification of authority. If provided, *SSNUserIdentifier* will not be provided.
AuthorityName	0-1	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	0-1	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
Phone	0-1	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	0-1	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

Item	Occ	Description
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
RequestForActionList	**0-99**	**RequestForActionList element node.**
RequestForActionDetails	**1**	**RequestForActionDetail element node.**
MSRequestedToDoAction	1	From MS2SSN_IncidentDetail_Not
ActionRequestedDetail	1	From MS2SSN_IncidentDetail_Not
IncidentDetailsDocument	**0-1**	**IncidentDetailsDocument element node. Mandatory if IncidentDetails not provided. Can also be provided as a complementary information of IncidentDetails.**
Base64Details	**0-1**	Base64Details element node, child of IncidentDetailsDocument. Element indicating the document containing the notification details is embedded in the message in Base64Details.
DocType	1	From original MS2SSNIncidentDetail_Not
Base64Content	1	
IncidentDetails	**0-1**	**Incidentdetails element node. Only 1 element node might be given. Mandatory if IncidentDetailsDocument not provided.**
WasteIncidentInformation	**0-1**	**WasteIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
NonComplianceInformation	**1**	From original MS2SSNIncidentDetail_Not
WasteDeliveryDuePort	1	
ETD	1	
InspectionReason	1	
InspectionInformation	**0-1**	
Deficiencies	1	
ActionTaken	1	
InspectionAuthority	**1**	
Name	1	
Phone	1	
Fax	0-1	
EMail	0-1	
SITREPIncidentInformation	**0-1**	**SITREPIncidentInformation element node, child of IncidentDetails. Not allowed if other IncidentDetails specified.**
SITREPInformation	**1**	From original MS2SSNIncidentDetail_Not
SITREPId	1	
C_Situation	**1**	
MessageType	1	
NotifiedAt	1	

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

Item	Occ	Description
Visibility	0-1	
P47_PollutionDrift	*0-1*	
DriftCourse	1	
DriftSpeed	1	
P48_PollutionEffectForecast	0-1	
P49_ObserverIdentity	*0-99*	
Name	1	
HomePort	0-1	
Flag	0-1	
CallSign	0-1	
P50_ActionTaken	1	
P51_Photographs	0-1	
P52_InformedStateOrg	*0-99*	
Name	1	
P53_OtherInformation	0-1	
P60_Acknowledge	0-1	
POLFAC	*0-1*	
P80_DateTime	0-1	
P81_RequestForAssistance	0-1	
Assistance	*0-1*	
P82_Cost	1	
P83_PreArrangements	1	
P84_Delivery	1	
P85_InformedStateOrg	*0-99*	
Name	1	
P86_ChangeOfCommand	0-1	
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
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*	

Item	Occ	Description
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-☐*	
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>	*1*	-
VTSRulesInfringementIncidentInformation	*0-1*	**VTSRulesInfringementIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
BannedShipIncidentInformation	*0-1*	**BannedShipIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
ReportOfAction_Information	*0-1*	**ResultInspectionIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**

Item	Occ	Description
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
InsuranceFailureIncidentInformation	*0-1*	**InsuranceFailureIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
PilotOrPortReportIncidentInformation	*0-1*	**PilotOrPortReportIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
OtherIncidentInformation	*0-1*	**OtherIncidentInformation element node, child of IncidentDetails.** **Not allowed if other IncidentDetails specified.**
Description	*1*	From original MS2SSNIncidentDetail_Not
<TBD>	*1*	-
<TBD>	*-*	-
FeedbackList	*0-99*	FeedbackList element node. As result of RequestForAction="Y".
FeedbackInformation	*1*	**Feedback element node. As result of RequestForAction="Y".**
FeedbackIdentification	*1*	**FeedbackIdentification element node.**
FeedbackID	1	Unique identifier of feedback
FeedbackRecipientListDetails	*0-1*	**FeedbackRecipientListDetails element node.**
FeedbackRecipientList	0-99	From original MS2SSNIncidentDetail_Not
FeedbackDistributionToFlagState	0-1	
ReportOfAction_Information	*1*	**ReportOfAction_Information element node, child of Feedback.**
AuthorityReportidingAction	*0-1*	**AuthorityReportidingAction element node.**
AuthorityName	1	From original MS2SSNIncidentDetail_Not with UpdateStatusReason="F"
LoCode	1	
Phone	1	
Fax	1	
EMail	0-1	
ReportActionDetails	*0-1*	**ReportActionDetails element node**
Details	1	From original MS2SSNIncidentDetail_Not with UpdateStatusReason="F"
ReportActionDocument	*0-1*	**ReportActionDocument element node**
DocType	1	From original MS2SSNIncidentDetail_Not with UpdateStatusReason="F"
Base64Content	1	
<TBD>	*-*	-

Example of an IncidentDetail distribution message

```xml
<?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_01" SentAt="2012-08-31T12:00:01"
        To="MS_Tx" Version="2.0" />
    <ssn:Body>
        <ssn:DistributedDetails>
            <ssn:Incident>
                <ssn:IncidentIdentification IncidentID="IncId01" Type="Waste" />
                <ssn:IncidentNotificationStatus UpdateStatusReason="N" />
                <ssn:IRRecipientListDetails IRDistributionToFlagState="GR" />
                <ssn:ProvidersOfIncidentReport IRInitialProvider="GR POR AUTH" />
                <ssn:IRVesselIdentificationList>
                    <ssn:IRVesselIdentification>
                        <ssn:IRVessel_IdentityVerified CallSign="HMDOO" 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:ShipPositionAtTheTimeIncident>
                            <ssn:Area GeographicalArea="North Aegean" />
                        </ssn:ShipPositionAtTheTimeIncident>
                    </ssn:IRVesselIdentification>
                </ssn:IRVesselIdentificationList>
                <ssn:AuthorityReportingIncident AuthorityName="GR POR AUTH" Fax="2101234567"
                    LoCode="GRPIR" Phone="2101234567" />
                <ssn:IncidentDetails>
                    <ssn:OtherIncidentInformation Description="incidentDescription" />
                </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.

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*		-		-	*1-99*
-	-	*SSNparticipant_asIRorFeedbackRecipient*		-		*1*
-	-	-			SSN_Participant_Country	1
-	-	-		*SSN_AutorityXML*		*0-1*
-	-	-		-	SSN_ID_AuthorityXML	1
-	-	-		-	RecipientXML_Ack	1
-	-	-		*EmailUserslist_Recipient_list*		*0-99*
-	-	-		-	RecipientUser_Email	1
-	-	-		-	RecipientEmail_Ack	1
-	*IRorFeedbackFlagStateRecipient_Ack_list*		-		-	*0-99*
-	-	*SSNparticipant_asIRorFeedbackRecipient*				*1*
-	-	-			SSN_Participant_Country	1
-	-	-		*SSN_AutorityXML*		*0-1*
-	-	-		-	SSN_ID_AuthorityXML	1
-	-	-		-	RecipientXML_Ack	1
-	-	-		*EmailUserslist_Recipient_list*		*0-99*
-	-	-		-	RecipientUser_Email	1

Elements				Attributes	Occ
_	_	_	_	RecipientEmail_Ack	1

SSN2MS_IncidentDetail_Tx_Ack.xml
Business Rules

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

Item	Occ	Description
Header	*1*	**Header Node**
Version	1	none
TestId	0-1	none
MSRefId	1	The MSRefId from the original MS2SSNIncidentDetail_Not
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
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 "UpdateStatusReason" values: "N", "U" or "F". If "UpdateStatusReason" is "N" or "U" then the distribution list is the list provided under the element "IRRecipientListDetails" of the notification. If "UpdateStatusReason" is "F" then the distribution list is the list provided under the element "FeedbackRecipientListDetails" of the notification.
IRorFeedbackRecipients_Ack_list	*1-99*	*IRorFeedbackRecipients_Ack_list element node.*
SSNparticipant_asIRorFeedbackRecipient	*1*	*SSNparticipant_asRecipient element node*
SSN_Participant Country	1	Identification of the recipient MS
SSN_AutorityXML	0-1	Mandatory in case of XML recipient
SSN_ID_AuthorityXML	1	Identification of the XML recipient Authority
RecipientXML_Ack	1	XML ack status
EmailUserslist_Recipient_list	*0-99*	Mandatory in case of email recipients
RecipientUser_Email	1	Identification of the email recipient user
RecipientEmail_Ack	1	eMail ack status
IRorFeedbackFlagStateRecipient_Ack_list	*1-99*	*IRorFeedbackFlagStateRecipient_Ack_list element node.*
SSNparticipant_asIRorFeedbackRecipient	*1*	*SSNparticipant_asIRorFeedbackRecipient element node*
SSN_Participant Country	1	Identification of the recipient MS
SSN_AutorityXML	0-1	Mandatory in case of XML recipients
SSN_ID_AuthorityXML	1	Identification of the XML recipient Authority
RecipientXML_Ack	1	XML ack status

Item	Occ	Description
EmailUserslist_Recipient_list	*0-99*	Mandatory in case of email recipients
RecipientUser_Email	1	Identification of the email recipient user
RecipientEmail_Ack	1	eMail ack status

Example of an IncidentDetail distribution acknowledgement report

```xml
<?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 SSN_Participant_Country="GR">
                <ssn:SSN_AutorityXML SSN_ID_AuthorityXML="ssnId" RecipientXML_Ack="OK" />
            </ssn:SSNparticipant_asIRorFeedbackRecipient>
        </ssn:IRorFeedbackRecipients_Ack_list>
        <ssn:IRorFeedbackFlagStateRecipient_Ack_list>
            <ssn:SSNparticipant_asIRorFeedbackRecipient SSN_Participant_Country="GR">
                <ssn:SSN_AutorityXML SSN_ID_AuthorityXML="ssnId" RecipientXML_Ack="OK" />
            </ssn:SSNparticipant_asIRorFeedbackRecipient>
        </ssn:IRorFeedbackFlagStateRecipient_Ack_list>
    </ssn:Body>
</ssn:SSN2MS_IncidentDetail_Tx_Ack>
```

Section 3.~~5~~ 6 - Get Port Notification Details

Overview

Introduction

A Member State may ask SafeSeaNet to get the latest ~~Port~~pre-arrival information provided via a PortPlus notification (ETA/ETD regarding the port of call and person on board provided in the 72 and/or 24h pre-arrival elements of THE RELEVANT Portplus notification). ~~the latest port notification details for a given vessel.~~ 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 37)

In addition, the Port request mechanism implemented in SSN also allows retrieving the latest Port information provided via a PortPlus notification (ETA/ETD regarding the port of call and person on board provided in the 72 and/or 24h pre-arrival). In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

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

General flow of the XML messages

The following figure outlines the expected aynchronous flow of XML messages related to this SafeSeaNet XML transaction. You may notice that, as SafeSeaNet has all the port notification details in its database (stored when receiving the *MS2SSN_Port_Not.xml* notification message from the *data provider*), there is no need to ask the *data provider* for the details.

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_Port_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_Port_Res

ACK (HTTP 202 return code)
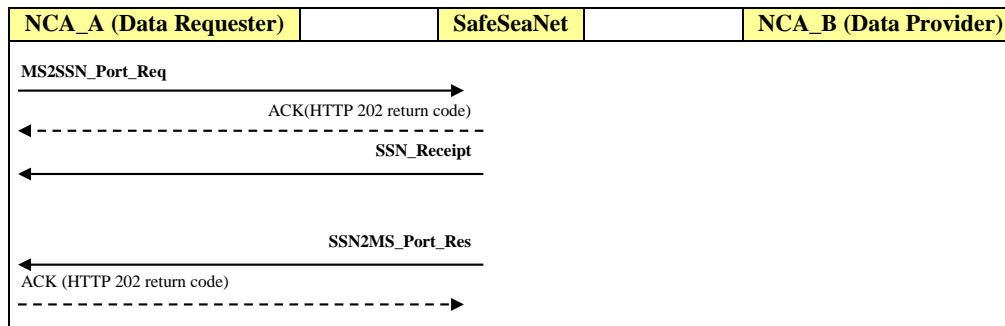
Contents

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MS2SSN_Port_Req.xml message	147
SSN2MS_Port_Res.xml message	149

MS2SSN_Port_Req.xml message

Introduction   The **MS2SSN_Port_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.

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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
SearchCriteria		*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.

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).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	**Body Node**
SearchCriteria	1	*SearchCriteria* **element node(s). Only 1 element node might be given**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <ssn:MS2SSN_Port_Req xmlns:ssn="urn:eu.emsa.ssn">
    <ssn:Header To="SSN" TimeoutValue="60" MSRefId="PORT-REQ-Test-029182KJ" From="GRPIR01"
      Version="2.0" SentAt="2008-02-16T19:20:30+01:00" />
  - <ssn:Body>
      <ssn:SearchCriteria IMONumber="7203699" />
    </ssn:Body>
  </ssn:MS2SSN_Port_Req>
```

This request means that the data requester asks SSN for the detailed information of the latest port notification received for the vessel which IMO# is 7325526. The *TimeoutValue* attribute indicates that the data requester expects to receive the *SSN2MS_Port_Res.xml* response message within 60 seconds.

SSN2MS_Port_Res.xml message

Introduction

The **SSN2MS_Port_Res.xml** message is the response sent by SafeSeaNet to a Member State (*data requester*) requesting the latest port notification details for 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 default browser-based web interface supplied by SSN.

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
Body				*0-1*
	SearchCriteria			*1*
			IMONumber	0-1
			MMSINumber	0-1
	PortNotificationDetails			*0-1*
			SentAt	1
			From	1
		VesselIdentification		*1*
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
		VoyageInformation		*1*
			NextPortOfCall	1
			ETA	0-1
			ETD	0-1
			TotalPersonsOnBoard	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 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**	*SearchCriteria* **element node(s).**
IMONumber	0-1	From original *MS2SSN_Port_Req.xml* request
MMSINumber	0-1	From original *MS2SSN_Port_Req.xml* request
PortNotificationDetails	**0-1**	*PortNotificationDetails* **element node. Optional if StatusCode <> "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 notification has been notified to safeSeaNet.
From	1	The name of the sender (data provider) of the notification (see p.49).
VesselIdentification	**1**	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	**1**	*VoyageInformation* **element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZCAN" if unknown.
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. May only be optional if *NextPortOfCall* attribute value is unknown.
ETD	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 departure from the next port of call. May only be optional if *NextPortOfCall* attribute value is unknown.
TotalPersonsOnBoard	1	**99999** if actually unknown.

Example

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Port_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="30506618109182954" MSRefId="PORT-REQ-Test-029182KJ"
      Version="2.0" To="NCATEST1" SentAt="2008-02-26T14:00:16Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="7203699" />
    - <PortNotificationDetails SentAt="2008-02-26T13:58:10" From="SSNADMIN">
        <VesselIdentification ShipName="MARIA SOLTIN" CallSign="OWOA6" MMSINumber="219303000"
          IMONumber="7203699" />
        <VoyageInformation ETD="2008-02-27T21:00:00Z" TotalPersonsOnBoard="12" NextPortOfCall="GRSAL"
          ETA="2008-02-26T13:58:10Z" />
      </PortNotificationDetails>
    </Body>
  </SSN2MS_Port_Res>
```

Section 3.6 7 - 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 37)

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

General flow of the XML messages   The following figure outlines the expected ayncronous 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 25 for more details):

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_Ship_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_Ship_Req

ACK (HTTP 202 return code)

MS2SSN_Ship_Res

ACK (HTTP 202 return code)

SSN_Receipt

SSN2MS_Ship_Res

ACK (HTTP 202 return code)

Contents   This section contains the following topics:

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SSN2MS_Ship_Req.xml message	155
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SSN2MS_Ship_Res.xml message	165

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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

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).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	**Body Node**
SearchCriteria	1	*SearchCriteria* **element node(s). Only 1 element node might be given**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Ship_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SHIP_REQ_AIS_01213" SentAt="2005-12-01T22:00:00Z" From="NCATEST1"
      To="SSN" TimeoutValue="60" />
  - <Body>
      <SearchCriteria IMONumber="5270088" />
    </Body>
  </MS2SSN_Ship_Req>
```

SSN2MS_Ship_Req.xml message

Introduction   The **SSN2MS_Ship_Req.xml** message is sent by SafeSeaNet to the Member State owning 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 owner of the notification details) is able to talk XML with SafeSeaNet (please refer to "Data Provider capabilities" at page 25 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

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).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	**Body Node**

Item	Occ	Description
SearchCriteria	1	*SearchCriteria* **element node.**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<SSN2MS_Ship_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" SSNRefId="SHIP_REQ_AIS_01213-AB" SentAt="2007-02-09T11:31:48Z" From="SSN"
        To="NCATEST1" TimeoutValue="30" />
    <Body>
        <SearchCriteria IMONumber="5270088" />
    </Body>
</SSN2MS_Ship_Req>
```

-MS2SSN_Ship_Res.xml message

Introduction   The **MS2SSN_Ship_Res.xml** message is sent by the Member State owning 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 owns.

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

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**
					IMONumber	0-1
					MMSINumber	0-1
	VesselIdentification					**1**
					IMONumber	0-1
					MMSINumber	0-1
					CallSign	0-1
					ShipName	0-1
	MRSNotificationDetails					**0-1**
		MRSVoyageInformation				**1**
					NextPortOfCall	1
					ETA	0-1
					TotalPersonsOnBoard	1
					Longitude	1
					Latitude	1
		MRSDynamicInformation				**1**
					ReportingDateAndTime	1
					COG	1
					SOG	1
					NavigationalStatus	1
			Bunker			**0-1**
					Chars	1
					Quantity	1
		MRSCargoInformation				1
					CargoType	1
			DG			1
					AnyDG	1
				DGDetails		**0-☐**
					IMOClass	1
					Quantity	1
			CargoManifest			0-1
				UrlDetails		0-1
					Url	1
					DocType	1
				ContactDetails		0-1
					LastName	0-1
					FirstName	0-1

Elements						Attributes	Occ
						LoCode	1
						Phone	1
						Fax	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.

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	*SearchCriteria* **element node(s). Only 1 element node might be given**
IMONumber	0-1	From initial *MS2SSN_Ship_Req.xml* request
MMSINumber	0-1	From initial *MS2SSN_Ship_Req.xml* request
VesselIdentification	1	*VesselIdentification* **element node.** No chercking rules to be applied if already applied in the notification.
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
MRSNotificationDetails	0-1	*MRSNotificationDetails* **element node. Not allowed if** *StatusCode* **<> OK or if** *AISNotificationDetails* **specified**
…		
AISNotificationDetails	0-1	*AISNotificationDetails* **element node. Not allowed if** *StatusCode* **<> OK or if** *MRSNotificationDetails* **specified**
…		

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

Item	Occ	Description
MRSNotificationDetails	0-1	*MRSNotificationDetails* **element node. Not allowed if** *StatusCode* **<> OK or if** *AISNotificationDetails* **specified**
MRSVoyageInformation	1	*MRSVoyageInformation* **element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown.
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.

Item	Occ	Description
TotalPersonsOnBoard	1	**99999** if actually unknown.
Longitude	1	none
Latitude	1	none
MRSDynamicInformation	**1**	***MRSDynamicInformation* element node**
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.
COG	1	none
SOG	1	none
NavigationalStatus	1	none
Bunker	0-1	***Bunker* element node. Mandatory if total quantity of bunker is more than 5000 tons.**
Chars	1	none
Quantity	1	Bunker estimated quantity
MRSCargoInformation	1	***MRSCargoInformation* element node**
CargoType	1	none
DG	1	***DG* (dangerous goods) element node**
AnyDG	1	none
DGDetails	*0-∞*	***DGDetails* element node describing the dangerous goods**
IMOClass	1	none
Quantity	1	Quantity of DG
CargoManifest	0-1	***CargoManifest* element node Mandatory if *AnyDG* = Y**
UrlDetails	0-1	***UrlDetails* 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). Not allowed if *ContactDetails* specified.**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	0-1	**Element indicating the contact details to obtain the notification details (if the *data provider* can only provide the information via phone or fax). Not allowed if *UrlDetails* 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.
EMail	0-1	Email address of the contact person.

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

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

**Example of an
AIS notification
details**

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

```xml
<?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.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<MS2SSN_Ship_Res xmlns="urn:eu.emsa.ssn">
  <Header SSNRefId="2973857" From="NCATEST1" To="SSN" Version="2.0" SentAt="2007-11-26T14:48:58Z"
    MSRefId="SHIP-MRS-RES-TEST-01222" StatusMessage="" StatusCode="OK" />
  <Body>
    <SearchCriteria IMONumber="7128899" />
    <VesselIdentification IMONumber="7128899" CallSign="IPNP" ShipName="STELLA DI LIPARI" />
    <MRSNotificationDetails>
      <MRSVoyageInformation Latitude="38799000" TotalPersonsOnBoard="35" ETA="2007-11-19T12:00:00Z"
        Longitude="1294000" NextPortOfCall="ITMND" />
      <MRSDynamicInformation NavigationalStatus="0" ReportingDateAndTime="2007-11-19T11:49:49Z" SOG="145"
        COG="729" />
      <MRSCargoInformation CargoType="Cargo">
        <DG AnyDG="Y">
          <DGDetails IMOClass="6.1" Quantity="1530" />
          <DGDetails IMOClass="6.1" Quantity="31880" />
          <DGDetails IMOClass="4.1" Quantity="25497" />
          <DGDetails IMOClass="9" Quantity="1" />
        </DG>
        <CargoManifest>
          <UrlDetails Url="http://ssntest.com/ssn_test/Ship/123.doc" DocType="DOC" />
        </CargoManifest>
      </MRSCargoInformation>
    </MRSNotificationDetails>
  </Body>
</MS2SSN_Ship_Res>
```

SSN2MS_Ship_Res.xml message

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

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

Structure of the Notification details
Depending on the *data provider* capabilities (see p. 25), the following element nodes of the XML message will be returned:

If the *data provider*…	Then the XML message contains the following nodes…
is able to talk XML with SafeSeaNet (allowed for both AIS and MRS)	… <NotificationDetails…> 　　　<VesselIdentification …/> 　　　**<MRSNotificationDetails…/> or** 　　　**<AISNotificationDetails…/>** </NotificationDetails> …
can only provide notification details as downloadable files (only allowed for MRS since AIS may only be supplied as XML format)	… <NotificationDetails…> 　　　<VesselIdentification …/> 　　　<VoyageInformation …/> 　　　**<Base64Details…/>** </NotificationDetails> …
is only accessible via phone/fax/email (only allowed for MRS since AIS may only be supplied as XML format)	… <NotificationDetails…> 　　　<VesselIdentification …/> 　　　<VoyageInformation …/> 　　　**<ContactDetails…/>** </NotificationDetails> …

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).

SSN2MS_Ship_Res.xml message, Continued

Elements			Attributes	Occ
Header				*1*
			Version	1
			TestId	0-1
			MSRefId	1
			SSNRefld	1
			SentAt	1
			From	1
			To	1
			StatusCode	1
			StatusMessage	0-1
Body				*0-1*
	SearchCriteria			*1*
			IMONumber	0-1
			MMSINumber	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*
		…		
		Base64Details		*0-1*
			DocType	1
			Base64Content	1
		ContactDetails		*0-1*
			LastName	0-1
			FirstName	0-1
			LoCode	1
			Phone	1
			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.

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	*SearchCriteria* **element node(s). Only 1 element node might be given**
IMONumber	0-1	From initial *MS2SSN_Ship_Req.xml* request
MMSINumber	0-1	From initial *MS2SSN_Ship_Req.xml* request
NotificationDetails	0-1	*NotificationDetails* **element node. Not allowed if StatusCode <> "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 notification has been notified to safeSeaNet.
From	1	none
VesselIdentification	1	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	0-1	*VoyageInformation* **element node.** **Used to the positioning of the vessel when notification details are not available in xml format at dataprovider. If specified, the other elements (MRSNotificationDetails, AISNotificationDetails) are not allowed.**
Longitude	1	none
Latitude	1	none
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown.
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. May only be optional if *NextPortOfCall* attribute value is unknown.
TotalPersonsOnBoard	1	**99999** if actually unknown.

Item	Occ	Description
AISNotificationDetails	**0-1**	**AISNotificationDetails element node. Mandatory if the ship notification is of type AIS. If specified, the other elements (MRSNotificationDetails, Base64Details, ContactDetails) are not allowed.**
…		From corresponding *MS2SSN_Ship_Res.xml* response (if any). See p.162.
MRSNotificationDetails	**0-1**	**MRSNotificationDetails element node.** **Used to specify that the MRS notification details are available in XML format (see p.160). If specified, the other elements (AISNotificationDetails, Base64Details, ContactDetails) are not allowed.**
…		From corresponding *MS2SSN_Ship_Res.xml* response (if any). See p.160.
Base64Details	**0-1**	**Base64Details element. Used to specify that the MRS notification details are available in another document format (downloaded by SSN from a web server). If specified, the other elements (AISNotificationDetails, MRSNotificationDetails, ContactDetails) are not allowed.**
DocType	1	Extensions are case insensitive
Base64Content	1	Base64-encoded characters of the notification details downloaded by SafeSeaNet.
ContactDetails	**0-1**	**ContactDetails element. Used to specify that the MRS notification details are available by phone/fax/email. If specified, the other elements (AISNotificationDetails, MRSNotificationDetails, Base64Details) are not allowed.**
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.
EMail	0-1	Email address of the contact person.

Example of an AIS notification in XML

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

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SHIP_REQ_AIS_01213" SSNRefId="382872" SentAt="2005-12-01T22:00:20Z"
     From="SSN" StatusCode="OK" To="NCATEST1" />
    <Body>
        <SearchCriteria IMONumber="5270088" />
        <ShipNotificationDetails SentAt="2005-12-01T22:40:03Z" From="ssngdy2">
            <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>
        </ShipNotificationDetails>
    </Body>
</SSN2MS_Ship_Res>
```

Continued on next page

SSN2MS_Ship_Res.xml message, Continued

Examples of a MRS notification details

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

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="c822761a-3e98-4cbf-952b-4648f9d70f77" SSNRefId="2973857" SentAt="2007-
      11-26T14:49:20Z" From="SSN" StatusCode="OK" To="NCATEST1" />
  - <Body>
      <SearchCriteria IMONumber="7128899" />
    - <ShipNotificationDetails SentAt="2007-11-26T11:58:21Z" From="GRPIR01">
        <VesselIdentification IMONumber="7128899" MMSINumber="" CallSign="IPNP" ShipName="STELLA DI
          LIPARI" />
      - <MRSNotificationDetails>
          <MRSVoyageInformation Latitude="38799000" TotalPersonsOnBoard="35" ETA="2007-11-19T12:00:00Z"
            Longitude="1294000" NextPortOfCall="ITMND" />
          <MRSDynamicInformation NavigationalStatus="0" ReportingDateAndTime="2007-11-19T11:49:49Z"
            SOG="145" COG="729" />
        - <MRSCargoInformation CargoType="Tanker">
          - <DG AnyDG="Y">
              <DGDetails IMOClass="6.1" Quantity="1530" />
              <DGDetails IMOClass="6.1" Quantity="31880" />
              <DGDetails IMOClass="4.1" Quantity="25497" />
              <DGDetails IMOClass="9" Quantity="1" />
            </DG>
          - <CargoManifest>
              <UrlDetails Url="http://ssntest.com/ssn_test/Ship/123.doc" DocType="DOC" />
            </CargoManifest>
          </MRSCargoInformation>
        </MRSNotificationDetails>
      </ShipNotificationDetails>
    </Body>
  </SSN2MS_Ship_Res>
```

Examples of a MRS notification details (continued)

The following example illustrates a MRS notification which details details are available as a Word document. To recover the original Word document, the *data requester* must base64-decode (see p.60 for more details) the stream of characters provided in the *Base64Content* attribute:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="c822761a-3e98-4cbf-952b-4648f9d70f77" SSNRefId="2973857" SentAt="2007-
      11-26T14:49:20Z" From="SSN" StatusCode="OK" To="NCATEST1" />
  - <Body>
      <SearchCriteria IMONumber="7128899" />
    - <ShipNotificationDetails SentAt="2007-11-26T11:58:21Z" From="GRPIR01">
        <VesselIdentification IMONumber="7128899" MMSINumber="" CallSign="IPNP" ShipName="STELLA DI
          LIPARI" />
        <Base64Details DocType="DOC"
          Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4NCjxyZXN1bHQtc2V0IPg0Kl
      </ShipNotificationDetails>
    </Body>
  </SSN2MS_Ship_Res>
```

The following example illustrates a MRS notification which details can only be requested by phone or fax:

```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="c822761a-3e98-4cbf-952b-4648f9d70f77" SSNRefId="2973857" SentAt="2007-
      11-26T14:49:20Z" From="SSN" StatusCode="OK" To="NCATEST1" />
  - <Body>
      <SearchCriteria IMONumber="7128899" />
    - <ShipNotificationDetails SentAt="2007-11-26T11:58:21Z" From="NCATEST1">
        <VesselIdentification IMONumber="7128899" MMSINumber="" CallSign="IPNP" ShipName="STELLA DI
          LIPARI" />
        <ContactDetails Phone="+3099565656" Fax="+3099565656" EMail="GRPIR01@ncagr.com"
          LoCode="GRPIR" />
      </ShipNotificationDetails>
    </Body>
  </SSN2MS_Ship_Res>
```

Section 3.~~7~~ 8 - Get Hazmat Notification Details

Overview

Introduction   A Member State may ask SafeSeaNet to get the ~~latest~~ active H~~h~~azmat ~~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 37)

In addition, the Hazmat request mechanism implemented in SSN also allows retrieving the ~~latest~~ active Hazmat information provided via a PortPlus notification (Hazmat EU or Hazmat non EU departures). In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

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

General flow of the XML messages   The following figure outlines the expected aynchronous 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 25 for more details):

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_Hazmat_Req →

← - - - - - ACK(HTTP 202 return code) - - - - - -

← SSN_Receipt

SSN2MS_Hazmat_Req →

← - - - - ACK (HTTP 202 return code) - - - -

← MS2SSN_Hazmat_Res

ACK (HTTP 202 return code) - - - - - - →

SSN_Receipt →

← SSN2MS_Hazmat_Res

ACK (HTTP 202 return code)

- - - - - - - - - - - - - - - - - →

Contents   This section contains the following topics:

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SSN2MS_Hazmat_Req.xml message	174
MS2SSN_Hazmat_Res.xml message	176
SSN2MS_Hazmat_Res.xml message	179

MS2SSN_Hazmat_Req.xml message

Introduction   The **MS2SSN_Hazmat_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the latest Hazmat 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

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).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	**Body Node**
SearchCriteria	1	*SearchCriteria* **element node**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <MS2SSN_Hazmat_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="HAZMAT-REQ-CARG-5454" SentAt="2007-01-16T19:20:30+01:00"
      TimeoutValue="160" From="NCATEST1" To="SSN" />
  - <Body>
      <SearchCriteria IMONumber="9332511" />
    </Body>
  </MS2SSN_Hazmat_Req>
```

SSN2MS_Hazmat_Req.xml message

Introduction

The **SSN2MS_Hazmat_Req.xml** message is sent by SafeSeaNet to the Member State owning the Hazmat notification details (*data provider*) in order to request the latest Hazmat notification details about a given vessel.

This message is used by SafeSeaNet when receiving a **MS2SSN_Hazmat_Req.xml** message coming from a *data requester* and when SafeSeaNet has identified that the *data provider* (i.e. the owner of the notification details) is able to talk XML with SafeSeaNet (please refer to "Data Provider capabilities" at page 25 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	SSNRefld	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

Item	Occ	Description
Header	1	**Header Node**
Version	1	none
TestId	0-1	none
SSNRefld	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	none
From	1	none

Item	Occ	Description
To	1	none
Body	**1**	**Body Node**
SearchCriteria	**1**	*SearchCriteria* **element node.**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Hazmat_Req xmlns="urn:eu.emsa.ssn">
    <Header TimeoutValue="30" SSNRefId="22883164999360328" Version="2.0" To="NCATEST2" SentAt="2007-01-
      30T11:23:12Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="9332511" />
    </Body>
  </SSN2MS_Hazmat_Req>
```

MS2SSN_Hazmat_Res.xml message

Introduction   The **MS2SSN_Hazmat_Res.xml** message is sent by the Member State owning the notifications details (*data provider)* to SafeSeaNet in answer to its request for getting the latest hazmat notification details 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. Note that the location of the cargo manifest has been given at notification time (see "" at p.78).

> **Field Code Changed**

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
				IMONumber	0-1
				MMSINumber	0-1
	NotificationDetails				0-1
		VesselIdentification			1
				IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
		VoyageInformation			1
				NextPortOfCall	1
				ETA	0-1
				ETD	0-1
				TotalPersonsOnBoard	1
				INFShipClass	0-1
		CargoInformation			1
			DPG		1-□
				TechnicalName	1
				UNNumber	1
				IMOHazardClass	1
			WeightGross		*0-1*
				UnitOfMeasurementGross	1
				GrossQuantity	1
			WeightNet		*0-1*
				UnitOfMeasurementNet	1
				NetQuantity	1
			PlacementOfGoods		*0-□*
				LocationOnBoardGoods	1
			PlacementOfGoodsInContainer		*0-□*

Elements					Attributes	Occ
					TransUnitId	1
					LocationOnBoardContainer	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 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 corresponding *SSN2MS_Hazmat_Req.xml* request
IMONumber	0-1	From corresponding *SSN2MS_Hazmat_Req.xml* request
MMSINumber	0-1	From corresponding *SSN2MS_Hazmat_Req.xml* request
NotificationDetails	**0-1**	*NotificationDetails* **element node. Not allowed if StatusCode <> Found**
VesselIdentification	**1**	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	Call sign of the vessel
ShipName	0-1	Name of the vessel
VoyageInformation	**1**	*VoyageInformation* **element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown.
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. May only be optional if *NextPortOfCall* attribute value is unknown.
ETD	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 departure from the loading port. May only be optional if the ship is coming from a port located outside the Community.
TotalPersonsOnBoard	1	**99999** if actually unknown.
INFShipClass	0-1	none
CargoInformation	**1**	*CargoInformation* **element node**

Item	Occ	Description
DPG	*1-∞*	*DPG* **element node describing each type of dangerous goods on board.**
TechnicalName	1	none
UNNumber	1	none
IMOHazardClass	1	none
WeightGross	*0-1*	*WeightGross* **element specifying the gross weight of the dangerous good. Mandatory if** *WeightNet* **not present.**
UnitOfMeasurementGross	1	none
GrossQuantity	1	none
WeightNet	*0-1*	*WeightNet* **element specifying the net weight of the dangerous good. Mandatory if** *WeightGross* **not present.**
UnitOfMeasurementNet	1	none
NetQuantity	1	none
PlacementOfGoods	*0-∞*	*PlacementOfGoods* **element describing the location of goods which are not in containers.**
LocationOnBoardGoods	1	Latest update of the attribute registered in the NCA database.
PlacementOfGoodsInContainer	*0-∞*	*PlacementOfGoodsInContainer* **element specifying the placement of the container which contains the dangerous good.**
TransUnitId	1	none
LocationOnBoardContainer	1	Latest update of the attribute registered in the NCA database.

Example

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<MS2SSN_Hazmat_Res xmlns="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:eu.emsa.ssn C:\DOCUME~1\sergouniotis\Desktop\ssn.xsd">
  <Header Version="2.0" MSRefId="HAZMAT-CARG-CONT-RES-XML-54" SSNRefId="SSN::HAZMAT-REQ-CARG-123"
    SentAt="2007-01-30T11:23:28Z" From="NCATEST2" To="SSN" StatusCode="OK" />
  <Body>
    <SearchCriteria IMONumber="9332511" MMSINumber="351545555" />
    <NotificationDetails>
      <VesselIdentification IMONumber="9332511" MMSINumber="351545555" />
      <VoyageInformation NextPortOfCall="PTLIS" TotalPersonsOnBoard="54" INFShipClass="INF1" ETA="2007-02-
        11T06:28:00Z" ETD="2007-02-09T08:28:00Z" />
      <CargoInformation>
        <DPG TechnicalName="Tech1" IMOHazardClass="IMDG" UNNumber="NONE">
          <WeightGross UnitOfMeasurementGross="KGM" GrossQuantity="10" />
          <PlacementOfGoods LocationOnBoardGoods="0340210" />
          <PlacementOfGoods LocationOnBoardGoods="0340211" />
          <PlacementOfGoodsInContainer TransUnitId="32" LocationOnBoardContainer="0330451" />
          <PlacementOfGoodsInContainer TransUnitId="33" LocationOnBoardContainer="0330441" />
        </DPG>
        <DPG TechnicalName="Tech2" IMOHazardClass="IMDG" UNNumber="123">
          <WeightNet NetQuantity="30" UnitOfMeasurementNet="KGM" />
          <PlacementOfGoods LocationOnBoardGoods="0340215" />
          <PlacementOfGoods LocationOnBoardGoods="0340321" />
        </DPG>
        <DPG TechnicalName="Tech3" IMOHazardClass="IMDG" UNNumber="124">
          <WeightNet NetQuantity="40" UnitOfMeasurementNet="KGM" />
          <PlacementOfGoods LocationOnBoardGoods="0340216" />
          <PlacementOfGoods LocationOnBoardGoods="0340322" />
        </DPG>
        <DPG TechnicalName="Tech4" IMOHazardClass="IMDG" UNNumber="125">
          <WeightNet NetQuantity="50" UnitOfMeasurementNet="KGM" />
          <PlacementOfGoods LocationOnBoardGoods="0340217" />
          <PlacementOfGoods LocationOnBoardGoods="0340323" />
        </DPG>
      </CargoInformation>
    </NotificationDetails>
  </Body>
</MS2SSN_Hazmat_Res>
```

SSN2MS_Hazmat_Res.xml message

Introduction The **SSN2MS_Hazmat_Res.xml** message is the final response sent by SafeSeaNet to a Member State requesting the latest Hazmat notification details about a given vessel (*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. 25), the following element nodes of the XML message will be returned:

If the *data provider*…	Then the XML message contains the following nodes…
is able to talk XML with SafeSeaNet	… \<NotificationDetails…> \<VesselIdentification…/> \<VoyageInformation…/> **\<CargoInformation…/>** \</NotificationDetails…> …
can only provide notification details as downloadable files	… \<NotificationDetails…> \<VesselIdentification…/> \<VoyageInformation…/> **\<Base64Details…/>** \</NotificationDetails…> …
is only accessible via phone/fax/email	… \<NotificationDetails…> \<VesselIdentification…/> \<VoyageInformation…/> **\<ContactDetails…/>** \</NotificationDetails…> …

SSN2MS_Hazmat_Res.xml message, Continued

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
Body				*0-1*
	SearchCriteria			*1*
			IMONumber	0-1
			MMSINumber	0-1
	NotificationDetails			*0-1*
			SentAt	1
			From	1
		VesselIdentification		*1*
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
		VoyageInformation		*1*
			NextPortOfCall	1
			ETA	0-1
			ETD	0-1
			TotalPersonsOnBoard	1
			INFShipClass	0-1
		CargoInformation		*0-1*
			DPG	*1-∞*
			...	
		ContactDetails		*0-1*
			LastName	0-1
			FirstName	0-1
			LoCode	1
			Phone	1
			Fax	1
			EMail	0-1
		Base64Details		*0-1*
			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.

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 initial *MS2SSN_Hazmat_Req.xml* request
IMONumber	0-1	From initial *MS2SSN_Hazmat_Req.xml* request
MMSINumber	0-1	From initial *MS2SSN_Hazmat_Req.xml* request
NotificationDetails	**0-1**	*NotificationDetails* **element node. Not allowed if StatusCode <> "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 notification has been notified to safeSeaNet.
From	1	none
VesselIdentification	**1**	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
VoyageInformation	**1**	*VoyageInformation* **element node**
NextPortOfCall	1	Location code of next port of call. May be "ZZUKN" if unknown.
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. Optional if *NextPortOfCall* attribute value is empty
ETD	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 departure from the **loading** port. *May only be optional if the ship is coming from a port located outside the Community*.
TotalPersonsOnBoard	1	**99999** if actually unknown.
INFShipClass	0-1	none

Item	Occ	Description
CargoInformation	**0-1**	*CargoInformation* **element node (from corresponding** *MS2SSN_Hazmat_Res.xml* **response).** **Used to specify that the Hazmat notification details are available in XML format. If specified, the other elements (***Base64Details, ContactDetails***) are not allowed.**
DPG	**1-∞**	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
…		From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
ContactDetails	**0-1**	*ContactDetails* **element. Used to specify that the Hazmat notification details are available by phone/fax/email. If specified, the other elements (***CargoInformation, Base64Details***) are not allowed.**
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.
EMail	0-1	Email address of the contact person.
Base64Details	**0-1**	*Base64Details* **element. Used to specify that the Hazmat notification details are available in another document format (downloaded by SSN from a web server). If specified, the other elements (***CargoInformation, ContactDetails***) are not allowed.**
DocType	1	Extensions are case insensitive
Base64Content	1	Base64-encoded characters of the notification details downloaded by SafeSeaNet.

Examples of an XML Hazmat details

The following example illustrates the details of a Hazmat notification available in XML format:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<SSN2MS_Hazmat_Res xmlns="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="urn:eu.emsa.ssn C:\DOCUME~1\sergouniotis\Desktop\ssn.xsd">
    <Header StatusCode="OK" SSNRefId="22883038270686033" MSRefId="HAZMAT-REQ-CARG-123" Version="2.0"
        To="NCATEST1" SentAt="2007-01-30T11:23:38Z" From="SSN" />
    <Body>
        <SearchCriteria IMONumber="9332511" MMSINumber="351545555" />
        <NotificationDetails SentAt="2007-01-30T08:17:31" From="GRPIR01">
            <VesselIdentification IMONumber="9332511" MMSINumber="351545555" />
            <VoyageInformation INFShipClass="INF1" ETD="2007-01-29T08:28:00Z" TotalPersonsOnBoard="54"
                NextPortOfCall="GRSAL" ETA="2007-01-30T06:28:00Z" />
            <CargoInformation>
                <DPG UNNumber="NONE" TechnicalName="Tech1" IMOHazardClass="IMDG">
                    <WeightGross UnitOfMeasurementGross="KGM" GrossQuantity="10" />
                    <PlacementOfGoods LocationOnBoardGoods="0340210" />
                    <PlacementOfGoods LocationOnBoardGoods="0340211" />
                    <PlacementOfGoodsInContainer TransUnitId="32" LocationOnBoardContainer="0330451" />
                    <PlacementOfGoodsInContainer TransUnitId="33" LocationOnBoardContainer="0330441" />
                </DPG>
                <DPG UNNumber="123" TechnicalName="Tech2" IMOHazardClass="IMDG">
                    <WeightNet UnitOfMeasurementNet="KGM" NetQuantity="30" />
                    <PlacementOfGoods LocationOnBoardGoods="0340215" />
                    <PlacementOfGoods LocationOnBoardGoods="0340321" />
                </DPG>
                <DPG UNNumber="124" TechnicalName="Tech3" IMOHazardClass="IMDG">
                    <WeightNet UnitOfMeasurementNet="KGM" NetQuantity="40" />
                    <PlacementOfGoods LocationOnBoardGoods="0340216" />
                    <PlacementOfGoods LocationOnBoardGoods="0340322" />
                </DPG>
                <DPG UNNumber="125" TechnicalName="Tech4" IMOHazardClass="IMDG">
                    <WeightNet UnitOfMeasurementNet="KGM" NetQuantity="50" />
                    <PlacementOfGoods LocationOnBoardGoods="0340217" />
                    <PlacementOfGoods LocationOnBoardGoods="0340323" />
                </DPG>
            </CargoInformation>
        </NotificationDetails>
    </Body>
</SSN2MS_Hazmat_Res>
```

Continued on next page

SSN2MS_Hazmat_Res.xml message, Continued

Examples of an XML Hazmat details (continued)

The following example illustrates a Hazmat notification which details are available as a Word document. To recover the original Word document, the *data requester* must base64-decode (see p.60 for more details) the stream of characters provided in the *Base64Content* attribute:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Hazmat_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="22883038270686033" MSRefId="HAZMAT-REQ-CARG-123" Version="2.0"
      To="NCATEST1" SentAt="2007-01-30T11:23:38Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="5454555" MMSINumber="351545555" />
    - <NotificationDetails SentAt="2007-01-30T08:17:31" From="GRPIR01">
        <VesselIdentification MMSINumber="351545555" IMONumber="5454555" />
        <VoyageInformation INFShipClass="INF1" ETD="2007-01-29T08:00Z" TotalPersonsOnBoard="54"
          NextPortOfCall="GRSAL" ETA="2007-01-30T06:28:00Z" />
        <Base64Details DocType="DOC"
          Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4NCjxyZXN1bHQ2V0Pg0KIC
      </NotificationDetails>
    </Body>
  </SSN2MS_Hazmat_Res>
```

The following example illustrates a Hazmat notification which details can only be requested by phone or fax:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Hazmat_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="22883038270686033" MSRefId="HAZMAT-REQ-CARG-123" Version="2.0"
      To="NCATEST1" SentAt="2007-01-30T11:23:38Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="5454555" MMSINumber="351545555" />
    - <NotificationDetails SentAt="2007-01-30T08:17:31Z" From="GRPIR01">
        <VesselIdentification MMSINumber="351545555" IMONumber="5454555" />
        <VoyageInformation INFShipClass="INF1" ETD="2007-01-29T08:28:00Z" TotalPersonsOnBoard="54"
          NextPortOfCall="GRSAL" ETA="2007-01-30T06:28:00Z" />
        <ContactDetails Phone="+3099565656" Fax="+3099565656" EMail="GRPIR01@ncagr.com"
          LoCode="GRPIR" />
      </NotificationDetails>
    </Body>
  </SSN2MS_Hazmat_Res>
```

Section 3.~~8~~ 9 - Get Security Notification Details

Overview

Introduction   A Member State may ask SafeSeaNet to get the latest security 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 37)

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

Note   The security message was initially in the list of SSN messages but after launching the discussion on reviewing the content of the security message in order to harmonise it with the relevant decisions of the MARSEC Committee, some Member States expressed concerns about the inclusion of the security message into SSN. The COSS Committee discussed on the issue but till present no final decision has been taken and therefore the inclusion of the security message into SSN is still pending.

General flow of the XML messages   The following figure outlines the expected aynchronous 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 25 for more details):

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_Security_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_Security_Req

ACK (HTTP 202 return code)

MS2SSN_Security_Res

ACK (HTTP 202 return code)

SSN_Receipt

SSN2MS_Security_Res

ACK (HTTP 202 return code)
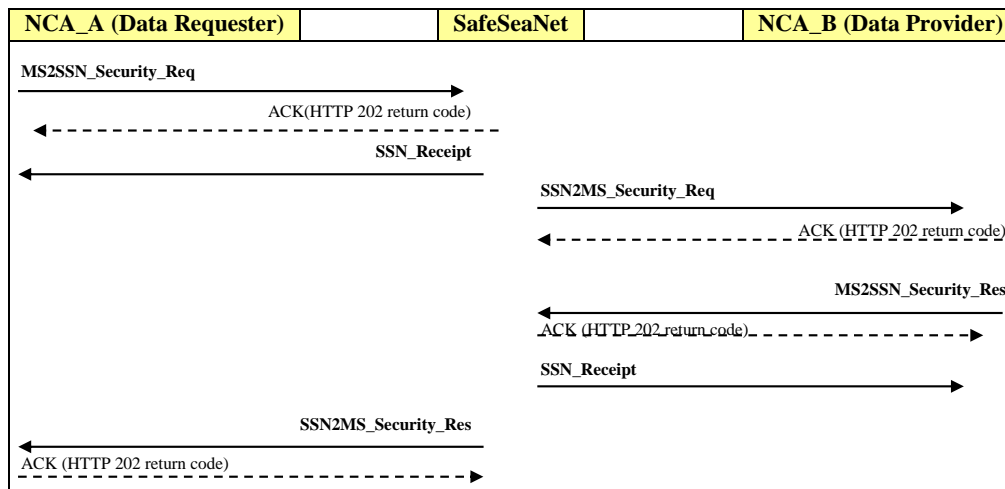
Contents   This section contains the following topics:

Topic	See Page
MS2SSN_Security_Req.xml message	186
SSN2MS_Security_Req.xml message	188
MS2SSN_Security_Res.xml message	190
SSN2MS_Security_Res.xml message	192

MS2SSN_Security_Req.xml message

Introduction   The **MS2SSN_Security_Req.xml** message is sent by a Member State (*data requester*) to SafeSeaNet in order to request the latest Security 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

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).
TimeoutValue	1	none
From	1	none
To	1	none
Body	1	**Body Node**
SearchCriteria	1	*SearchCriteria* **element node**
IMONumber	0-1	Mandatory if *MMSINumber* not given.

Item	Occ	Description
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <MS2SSN_Security_Req xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SECURITY_REQ_XML_69" SentAt="2007-02-09T11:31:21Z" TimeoutValue="160"
      From="NCATEST1" To="SSN" />
  - <Body>
      <SearchCriteria IMONumber="5270088" />
    </Body>
  </MS2SSN_Security_Req>
```

SSN2MS_Security_Req.xml message

Introduction   The **SSN2MS_Security_Req.xml** message is sent by SafeSeaNet to the Member State owning the Security notification details (*data provider*) in order to request the latest Security notification details about a given vessel.

This message is used by SafeSeaNet when receiving a **MS2SSN_Security_Req.xml** message coming from a *data requester* and when SafeSeaNet has identified that the *data provider* (i.e. the owner of the notification details) is able to talk XML with SafeSeaNet (please refer to "Data Provider capabilities" at page 25 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	SSNRefId	1
	SentAt	1
	TimeoutValue	1
	From	1
	To	1
Body		*1*
	SearchCriteria	*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.

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).
TimeoutValue	1	none
From	1	none

Item	Occ	Description
To	1	none
Body	**1**	**Body Node**
SearchCriteria	**1**	*SearchCriteria* **element node.**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.

Example

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Security_Req xmlns="urn:eu.emsa.ssn">
    <Header TimeoutValue="30" SSNRefId="22883164999360379" Version="2.0" To="NCATEST1" SentAt="2007-02-
      09T11:31:25Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="5270088" />
    </Body>
  </SSN2MS_Security_Req>
```

MS2SSN_Security_Res.xml message

Introduction   The **MS2SSN_Security_Res.xml** message is sent by the Member State owning the notifications details (*data provider)* to SafeSeaNet in answer to its request for getting the latest security notification details 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.

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*
			IMONumber	0-1
			MMSINumber	0-1
	NotificationsDetails			*0-1*
		VesselIdentification		*1*
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
		SecurityInformation		*1*
			ValidCertificate	1
			IssuingAuthority	1
			CurrentSecLevel	1
			PreviousPortSecLevel	1
			SecurityMeasures	1
			Maintenance	1
			Others	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 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 corresponding *SSN2MS_Security_Req.xml* request
IMONumber	0-1	From corresponding *SSN2MS_Security_Req.xml* request
MMSINumber	0-1	From corresponding *SSN2MS_Security_Req.xml* request
NotificationsDetails	**0-1**	*NotificationDetails* **element node. Not allowed if** *StatusCode* **<> OK**
VesselIdentification	**1**	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
SecurityInformation	**1**	*VoyageInformation* **element node**
ValidCertificate	1	none
IssuingAuthority	1	none
CurrentSecLevel	1	none
PreviousPortSecLevel	1	none
SecurityMeasures	1	none
Maintenance	1	none
Others	1	none

Example

```xml
<?xml version="1.0" ?>
<MS2SSN_Security_Res xmlns="urn:eu.emsa.ssn">
    <Header Version="2.0" MSRefId="SECURITY_RES_XML_69" SSNRefId="22883164999360379" SentAt="2007-02-
    09T11:31:41Z" From="NCATEST1" To="SSN" StatusCode="OK" />
    <Body>
        <SearchCriteria IMONumber="5270088" />
        <NotificationsDetails>
            <VesselIdentification IMONumber="5270088" MMSINumber="725000730" />
            <SecurityInformation ValidCertificate="Y" IssuingAuthority="Mrp XYZ" CurrentSecLevel="5"
             PreviousPortSecLevel="3" SecurityMeasures="None" Maintenance="Sting" Others="None" />
        </NotificationsDetails>
    </Body>
</MS2SSN_Security_Res>
```

Open issues   ▪ Description of *SecurityInformation* element attributes?

SSN2MS_Security_Res.xml message

Introduction   The **SSN2MS_Security_Res.xml** message is the final response sent by SafeSeaNet to a Member State requesting the latest security notification details about a given vessel (*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. 25), the following element nodes of the XML message will be returned:

If the *data provider*…	Then the XML message contains the following nodes…
is able to talk XML with SafeSeaNet	… <NotificationDetails…> <VesselIdentification…/> **<SecurityInformation…/>** </NotificationDetails…> …
can only provide notification details as downloadable files	… <NotificationDetails…> <VesselIdentification…/> **<Base64Details…/>** </NotificationDetails…> …
is only accessible via phone/fax/email	… <NotificationDetails…> <VesselIdentification…/> **<ContactDetails…/>** </NotificationDetails…> …

Message description

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

SSN2MS_Security_Res.xml message, Continued

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*
			IMONumber	0-1
			MMSINumber	0-1
	NotificationsDetails			*0-1*
			SentAt	1
			From	1
		VesselIdentification		*1*
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
		SecurityInformation		*0-1*
			ValidCertificate	1
			IssuingAuthority	1
			CurrentSecLevel	1
			PreviousPortSecLevel	1
			SecurityMeasures	1
			Maintenance	1
			Others	1
		ContactDetails		*0-1*
			LastName	0-1
			FirstName	0-1
			LoCode	1
			Phone	1
			Fax	1
			EMail	0-1
		Base64Details		*0-1*
			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.

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 initial *MS2SSN_Security_Req.xml* request
IMONumber	0-1	From initial *MS2SSN_Security_Req.xml* request
MMSINumber	0-1	From initial *MS2SSN_Security_Req.xml* request
NotificationsDetails	0-1	*NotificationsDetails* **element node. Not allowed if StatusCode <> "OK"**
SentAt	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
From	1	none
VesselIdentification	1	*VesselIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
SecurityInformation	0-1	*SecurityInformation* **element node (from corresponding** *MS2SSN_Security_Res.xml* **response).** **Used to specify that the Security notification details are available in XML format. If specified, the other elements (***Base64Details, ContactDetails***) are not allowed.**
ValidCertificate	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
IssuingAuthority	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
CurrentSecLevel	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
PreviousPortSecLevel	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
SecurityMeasures	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
Maintenance	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
Others	1	From corresponding *MS2SSN_Hazmat_Res.xml* response (if any)
ContactDetails	0-1	*ContactDetails* **element. Used to specify that the Security notification details are available by phone/fax/email. If specified, the other elements (***SecurityInformation, Base64Details***) are not allowed.**
LastName	0-1	none
FirstName	0-1	none

Item	Occ	Description
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.
Base64Details	**0-1**	***Base64Details* element. Used to specify that the Security notification details are available in another document format (downloaded by SSN from a web server). If specified, the other elements (*SecurityInformation*, *ContactDetails*) are not allowed.**
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 Security notification available in XML format:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Security_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="22822656713735201" MSRefId="SECURITY_REQ_XML_69" Version="2.0"
     To="NCATEST1" SentAt="2007-02-09T11:31:48Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="5270088" />
    - <NotificationsDetails SentAt="2007-02-08T11:20:21Z" From="mike">
        <VesselIdentification IMONumber="5270088" MMSINumber="725000730" />
        <SecurityInformation ValidCertificate="Y" IssuingAuthority="Mrp XYZ" CurrentSecLevel="5"
         PreviousPortSecLevel="3" SecurityMeasures="None" Maintenance="Sting" Others="None" />
      </NotificationsDetails>
    </Body>
  </SSN2MS_Security_Res>
```

The following example illustrates a Security notification which details details are available as a Word document. To recover the original Word document, the *data requester* must base64-decode (see p.60 for more details) the stream of characters provided in the *Base64Content* attribute:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Security_Res xmlns="urn:eu.emsa.ssn" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="urn:eu.emsa.ssn C:\DOCUME~1\sergouniotis\Desktop\ssn.xsd">
    <Header StatusCode="OK" SSNRefId="22822656713735201" MSRefId="SECURITY_REQ_XML_69" Version="2.0"
     To="NCATEST1" SentAt="2007-02-09T11:31:48Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="0000000" />
    - <NotificationsDetails SentAt="2007-02-08T11:20:21Z" From="mike">
        <VesselIdentification MMSINumber="000000000" IMONumber="0000000" />
        <Base64Details DocType="DOC"
         Base64Content="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4NCjxyZXN1bHQtc2V0Pg
      </NotificationsDetails>
    </Body>
  </SSN2MS_Security_Res>
```

Examples
(continued)

The following example illustrates a Security notification which details can only be requested by phone or fax:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
- <SSN2MS_Security_Res xmlns="urn:eu.emsa.ssn">
    <Header StatusCode="OK" SSNRefId="22822656713735201" MSRefId="SECURITY_REQ_XML_69" Version="2.0"
      To="GRPIR01" SentAt="2007-02-09T11:31:48Z" From="SSN" />
  - <Body>
      <SearchCriteria IMONumber="9332511" />
    - <NotificationsDetails SentAt="2007-02-08T11:20:21Z" From="mike">
        <VesselIdentification IMONumber="9332511" />
        <ContactDetails Phone="+3099565656" Fax="+3099565656" EMail="GRPIR01@ncagr.com"
          LoCode="GRPIR" />
      </NotificationsDetails>
    </Body>
  </SSN2MS_Security_Res>
```

Section 3.~~9~~ 10 - 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 37)

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

General flow of the XML messages The following figure outlines the expected ayuchronous 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 25 for more details):
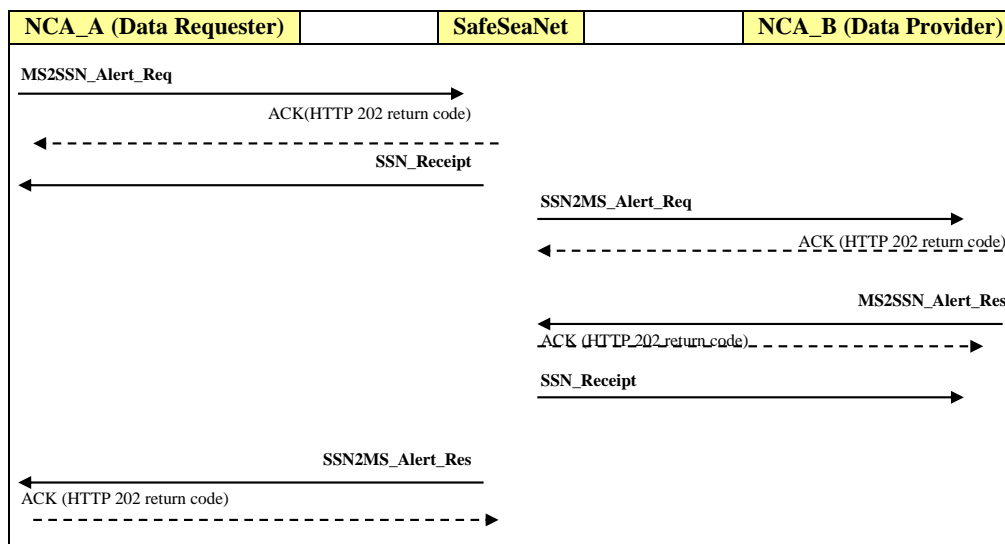
Contents This section contains the following topics:

Topic	See Page
MS2SSN_Alert_Req.xml message	198
SSN2MS_Alert_Req.xml message	200
MS2SSN_Alert_Res.xml message	202
SSN2MS_Alert_Res.xml message	216

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 ~~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.

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.

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).

Item	Occ	Description
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 owning 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 owner of the notification details) is able to talk XML with SafeSeaNet (please refer to "Data Provider capabilities" at page 25 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.

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.

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).

Item	Occ	Description
TimeoutValue	1	none
From	1	none
To	1	none
Body	**1**	**Body Node**
SearchCriteria	**1**	*SearchCriteria* **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
<?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 owning 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.

Important notes:

Taking into account the size of the XML information (and the effort it would take for the Member States to develop them), the European Commission recommends in a first step that the Member States (data provider) should make their alert messages available as Word documents (.doc) on a web server and not in XML (using the *MS2SSN_Alert_Res.xml* message). The templates "Word" for these alert messages will be made centrally available for download on the SafeSeaNet web server. Nevertheless, SafeSeaNet will be ready to process the alert messages 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	SITREPAlertInformation
POLREP	POLREPAlertInformation
Waste	WasteAlertInformation
Lost/found Containers	LostFoundContainersAlertInformation
Others	OtherAlertInformation

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

Elements				Attributes	Occ
				StatusCode	1
				StatusMessage	0-1
Body					*0-1*
	SearchCriteria				**1**
				IncidentType	1
				SentAt	1
				IMONumber	0-1
				MMSINumber	0-1
	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
			SITREPInformation		*1*
				SITREPId	1
				A_CasualtyIdentification	***0-1***
				Name	0-1
				CallSign	0-1

Elements					Attributes	Occ
					Flag	0-1
				B_Position		*1*
					Longitude	1
					Latitude	1
				C_Situation		*1*
					MessageType	1
					NotifiedAt	1
					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
	POLREPAlertInformation					*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	0-1
					Latitude	0-1
		CargoManifest				*0-1*
			UrlDetails			*1*
					Url	1
					DocType	1
		POLREPInformation				*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

Elements						Attributes	Occ
						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		*~~1~~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*

Elements						Attributes	Occ
						Url	1
						DocType	1
				LostFoundContainersInformation			*1*
						P1_ReportType	1
					P2_ShipIdentification		*1*
						IMONumber	0-1
						MMSINumber	0-1
						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.

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 *SSN2MS_Alert_Req.xml* request
IncidentType	1	From incoming *SSN2MS_Alert_Req.xml* request
SentAt	1	From incoming *SSN2MS_Alert_Req.xml* request
IMONumber	0-1	From incoming *SSN2MS_Alert_Req.xml* request
MMSINumber	0-1	From incoming *SSN2MS_Alert_Req.xml* 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**
…		

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

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 *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
NonComplianceInformation	1	*NonComplianceInformation* **element node. Used to describer 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):

Item	Occ	Description
SITREPAlertInformation	0-1	*SITREPAlertInformation* element node (if incident type = SITREP)
VesselIdentification	0-1	*VesselIdentification* element node (if ship identified)
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* 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. Mandatory if D_NumberOfPersons is not provided.
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 *data provider* 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
SITREPInformation	1	*SITREPInformation* element node
SITREPId	1	To indicate the nature of message and completeness of sequence of SITREPs concerning the casualty
A_CasualtyIdentification	0-1	*CasualtyIdentification* element node
Name	0-1	none
CallSign	0-1	none
Flag	0-1	none
B_Position	0-1	*Position* element node. Longitude and Latitude efer to the time of reporting.
Longitude	1	none
Latitude	1	none
C_Situation	1	*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_NumberOfPersons	0-1	none99999 if actually unknown. The value 0 (Zero) is allowed in situations where SITREP refers to a vessel that has been fully evacuated. Mandatory if TotalPersonsOnBoard is not provided.
E_AssistanceRequired	0-1	none
F_CoordinatingRCC	1	none
G_CasualtyDescription	0-1	none
H_WeatherOnScene	0-1	none
J_InitialActionsTaken	1	none
K_SearchArea	0-1	none
L_CoordinatingInstructions	0-1	none

Item	Occ	Description
M_FuturePlans	0-1	none
N_AdditionalInformation	0-1	none

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

Item	Occ	Description
POLREPAlertInformation	**0-1**	*POLREPAlertInformation* **element node (if incident type = POLREP)**
VesselIdentification	**0-1**	*VesselIdentification* **element node (if ship identified)**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* 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 *data provider* 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
POLREPInformation	**1**	*POLREPInformation* **element node.** ***At Least one of the three elements POLWARN, POLINF or POLFAC have 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
P1_DateTime	1	none
P3_Incident	0-1	none
P4_Outflow	0-1	none
P5_Acknowledge	0-1	none
P2_Position	**0-1**	*Position* **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
POLINF	**0-1**	*POLINF* **element node.** Detailed supplementary report
P40_DateTime	0-1	If it varies from POLWARN
P41_PollutionPosition	0-1	Non-mandatory only if "P2_Position" is quoted~~none~~

Item	Occ	Description
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	~~10~~-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**
P82_Cost	0-1	none
P83_PreArrangements	0-1	none

Item	Occ	Description
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):

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 *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* 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 *data provider* 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	~~none~~ If type Loss, then VesselIdentification and P2_ShiporObserverIdentification shall identify the ship which lost Containers or packaged goods; If type Observation then the VesselIdentification shall not identify any ship and P2_ShiporObserverIdentification shall identify the ship which has observed the containers or packaged goods adrift (if the observer is not a ship, the attribute other may be used to identify it).
P2_ShipIdentification	**1**	*CasualtyIdentification* **element node**
IMONumber	0-1	Mandatoy if MMSI number is lacking.

Item	Occ	Description
MMSINumber	0-1	Mandatoy if IMO number is lacking.
CallSign	0-1	none
ShipName	0-1	none
ContainerInformation	**1**	*ContainerInformation* **element node.**
P3_ContainerPosition	**1**	*ContainerPosition* **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
Containers	**1-99**	*Containers* **element node.**
Description	1	none
CargoLeaking	0-1	none
Wind	**0-1**	*Wind* **element node.**
Speed	1	Indicates wind speed in m/sec.
Direction	1	The direction always indicates from where the wind is blowing.
Tide	**0-1**	*Tide* **element node.**
Speed	1	Indicates current speed of the tide in knots and tenths of knots.
Direction	1	The direction always indicates the direction in which the current tide is flowing.
SeaState	**0-1**	*SeaState* **element node.**
WaveHeight	1	none
Visibility	0-1	none
ContainersDrift	**0-1**	*ContainersDrift* **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

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

Item	Occ	Description
OtherAlertInformation	**0-1**	*OtherAlertInformation* **element node (if incident type = Others)**
VesselIdentification	**0-1**	*VesselIdentification* **element node (if ship identified)**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
CargoManifest	**0-1**	*CargoManifest* **element node. Used only to specify that the cargo manifest <u>cannot</u> be requested via the corresponding XML message but either via a web server (*UrlDetails*) or a phone/fax (*ContactDetails*).**
UrlDetails	**0-1**	*UrlDetails* **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).**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	**0-1**	**Element indicating the contact details to obtain the notification details (if the *data provider* 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.
OtherInformation	**1**	*OtherInformation* **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>
```

Open issues
- Description of *WastAlerteInformation* node element attributes (format, size)?
- Description of *SITREPAlertInformation* node element attributes (format, size)?
- Description of *POLREPAlertInformation* node element attributes (format, size)?
- Description of *LostFoundContainersAlertInformation* node element attributes (format, size)?
- Description of *OtherAlertInformation* node element attributes (format, size)?

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.25), the following element nodes of the XML message will be returned:

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

SSN2MS_Alert_Res.xml message, Continued

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
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*
		…		
		SITREPAlertInformation		*0-1*
		…		
		POLREPAlertInformation		*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

Elements		Attributes		Occ
		Base64Details		*0-1*
			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.

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 original *MS2SSN_Alert_Req.xml* request
IncidentType	1	From original *MS2SSN_Alert_Req.xml* request
SentAt	0-1	From original *MS2SSN_Alert_Req.xml* request
From	0-1	From original *MS2SSN_Alert_Req.xml* request
IMONumber	0-1	From original *MS2SSN_Alert_Req.xml* request
MMSINumber	0-1	From original *MS2SSN_Alert_Req.xml* request
VesselIdentification	**0-1**	***VesselIdentification* element node. Mandatory if vessel identified at Incident notification. Not allowed if *StatusCode* <> OK**
IMONumber	0-1	Mandatory if *MMSINumber* not given.
MMSINumber	0-1	Mandatory if *IMONumber* not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
ContactIdentification	**0-1**	***ContactDetails* element node. Mandatory if vessel not identified at Incident notification. Not allowed if *StatusCode* <> 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.
EMail	0-1	Email address of the contact person.

Item	Occ	Description
IncidentDetails	0-1	*IncidentDetails* **element node. Not allowed if** *StatusCode* **<> 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 *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
…		From corresponding *MS2SSN_Alert_Res.xml* response (if any)
SITREPAlertInformation	0-1	*SITREPAlertInformation* **element node (if incident type = SITREP).** From incoming *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
…		From corresponding *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
POLREPAlertInformation	0-1	*POLREPAlertInformation* **element node (if incident type = POLREP).** From incoming *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
…		From corresponding *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
LostFoundContainersAlertInformation	0-1	*LostFoundContainersAlertInformation* **element node (if incident type = LostFoundContainers).** From incoming *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
…		From corresponding *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
OtherAlertInformation	0-1	*OtherAlertInformation* **element node (if incident type = Others).** From incoming *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (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 *MS2SSN_Alert_Res.xml* response or *MS2SSN_IncidentDetail_Not* (if any)
ContactDetails	0-1	**ContactDetails element. Mandatory when the data provider can only be reached by phone/fax/email (see p. 25)**
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.
EMail	0-1	Email address of the contact person.
Base64Details	0-1	*Base64Details* **element. Mandatory when the** *data provider* **can only provide incident details as downloadable files (see p.** 25**)**

Item	Occ	Description
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.60 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="PD94bWwgdmVyc2lvbj0iMS4wIiBlbmNvZGluZz0iVVRGLTgiPz4NCjxyZXN1bHQt2V0Pg0
      </IncidentDetails>
    </Body>
  </SSN2MS_Alert_Res>
```

Section 3.1~~0~~10 - Get PortPlus notification(s) details

Introduction

A Member State may ask SafeSeaNet:

- To get specific operational information related to the various stages of a ship call for a given vessel. Such information may relate, for instance, to the expected ship call on the basis of the ETA, the most recent departure of the ship or on the basis of ATDPortOfCall, etc.;

- To get the whole set of notifications concerning the current voyage of a specific ship (i.e. the pre-arrival, arrival, departure notifications and associated – if made available – Hazmat declarations);

- To get information on ship calls at a specific European Port during a specific time frame;

- To get confirmation that Hazmat material exist on board a ship during her current voyage;

- To get a short summary of Hazmat declaration describing the dangerous good on board during her current voyage;

- To get the whole set of information made available by a M.S on dangerous goods carried on board a ship during her current voyage;

Such service is implemented by exchanging XML messages between the *data requester*, the SafeSeaNet system and (in case of Hazmat summary or detailed information) the *data provider*

The messages are used by the "Information Requests" process agreed for SSN

In addition, the ShipCall request mechanism implemented in SSN also allows retrieving the24h pre-arrival and Hazmat information provided via the Port and Hazmat notifications. In this respect the necessary protocol conversion mechanism shall be implemented in the central SSN system.

This section describes the different XML messages provided for this transaction

Note: The request/ response messages described in this section can be expanded – by adding the relevant elements - at a later stage to include additional blocks for providing to requesters information included in the waste and security notifications concerning the current voyage of specific ship. Further it might be expanded (by adding the relevant elements) to incorporate the request/ response for MRS notification and incident notifications for identified ships

General flow of the XML messages

The following figures outline the expected asynchronous flows of XML messages related to this SafeSeaNet XML transaction. You may notice – as depicted in the 1st figure - that, SafeSeaNet has most of ships calls' related details in its database and as such can respond directly to a request for details (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 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

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_ShipCall_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_ShipCall_Res

ACK (HTTP 202 return code)
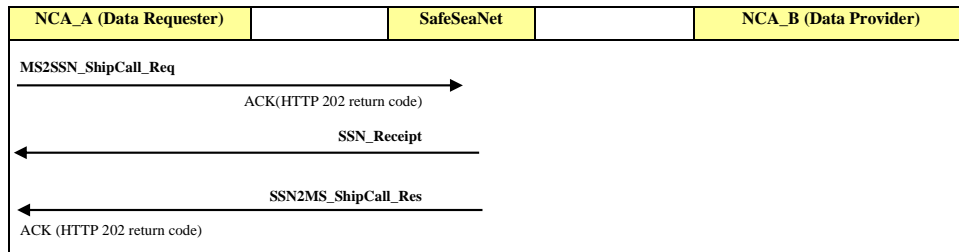
Flow of XML messages when the 'NCA A' (Data requester) asks for **HAZMAT details. SafeSeaNet** need to ask first the *data provider* for sending the details and then forward the details to the data requester.

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_ShipCall_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_ShipCall _Req

ACK (HTTP 202 return code)

MS2SSN_ ShipCall_Res

ACK (HTTP 202 return code)

SSN_Receipt

SSN2MS_ShipCall_Res

ACK (HTTP 202 return code)
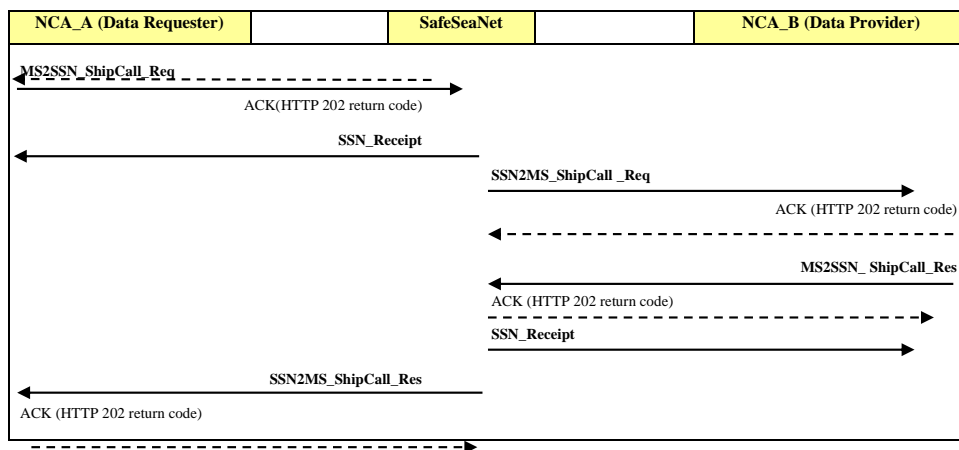
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Detailed descriptions of the attributes included in the messages (type/ length/ definition/ rules applicable to type or length) are provided in the Annex A of this document.

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 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.

Entities				Attributes	Occ
Header					*1*
				Version	1
				TestId	0-1
				MSRefId	1
				SentAt	1
				TimeoutValue	1
				From	1
				To	1
Body					*1*
	RequiredResponseCriteria				*1*
		ShipCallResp			*1*
				GetDetails	1
				GetHazmat	0-1
				<TBD1>[4]	
		<TBD>[5]			*0-1*
				<TBD1>	
				<TBD2>	
				<TBDx>	
		SearchCriteria			*1*
			TimePeriodCriteria		*1*
				StartDateTime	1
				EndDateTime	1
			ShipIdentificationCriteria		*0-1*
				IMONumber	0-1
				MMSINumber	0-1
				CallSign	0-1
				ShipName	0-1
			PortOfCallIdentificationCriteria		*0-1*
				PortOfCall	1
				<TBD>[6]	

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[4] Additional attributes could be added in future versions of SSN
[5] Additional elements could be added in future versions of SSN
[6] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port

Entities			Attributes		Occ
			AdditionalSearchCriteria		*0-1*
				FlagCriteria	*0-99*
				Flag	1
				<TBD>[7]	
			<TBD>		

Field Code Changed

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
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	Standard practice for the field is to include the reference identification of the originator of the data included in the message
To	1	None
Body	**1**	**Body Node**
RequiredResponseCriteria	**1**	*RequiredResponseCriteria* **element node(s). It defines the scope of the query. Only one** *1st evel* **element node might be given**
ShipCallResp	**0-1**	*ShipCallResp - 1st level ElementNode (child to RequiredResponseCriteria) defining the business rules related to the anticipated response*
GetDetails	1	Refer to the Table 1 where the applicable business logic for the query related to each value is described
GetHazmat	0-1	If the GetDetails attribute above has one of the following values: o ExpectedCallOfSelectedShip o MostRecentArrivalOfSelectedShip o MostRecentDepartureOfSelectedShip o LatestRegisteredShipCallDataOfSelectedShip then the OCC of this attribute can only be set as OCC=1. Should "HazmatDetails" is specified as the value of this attribute the details provided in the response might differ depending on the

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[7] In future versions of SSN – should the message structure will be used to accommodate additional queries to the SSN data, additional elements could be defined, e.g. an element identifying an area of search

Item	Occ	Description
		capability of the data provider to communicate details via XML or not (refer to the business rules applicable to the response message):
<TBD1>4		TBD rules
<TBD>[5]	**0-1**	*<TBD> - 1st level ElementNode (child to RequiredResponseCriteria) defining the business rules related to the anticipated response*
<TBD1>		TBD rules
<TBD2>		TBD rules
<TBDx>		TBD rules
SearchCriteria	**1**	*SearchCriteria element node(s). Only 1 element node might be given – Child to RequiredResponseCriteria*
ShipIdentificationCriteria	**0-1**	*Ship-identification-based search criteria element node – Child to SearchCriteria*
IMONumber	0-1	Refer to business rules Table 1 identifying when this attribute has to be provided by the data requester.
MMSINumber	0-1	None
CallSign	0-1	None
ShipName	0-1	None
PortOfCallIdentificationCriteria	**0-1**	*Voyage-ientification-based search criteria element node - – Child to SearchCriteria*
PortOfCall	**1**	Refer to business rules Table 1 identifying when this attribute has to be provided by the data requester
<TBD>[8]		TBD Rules
TimePeriodCriteria	**1**	*Time-period-based search criteria element node - Child to SearchCriteria element*
StartDateTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). Refer to business rules Table 1 identifying when this attribute has to be provided by the data requester and the maximum length of period
EndDateTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
AdditionalSearchCriteria	**0-1**	*AdditionalSearchCriteria - Child to SearchCriteria element*
FlagCriteria	**0-99**	*FlagCriteria element*
Flag	1	*Should this attribute is provided the results of the query will be limited to ships*
<TBD>[9]		TBD rules
<TBD>		TBD rules

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[8] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port

[9] In future versions of SSN – should the message structure will be used to accommodate additional queries to the SSN data, additional elements could be defined, e.g. an element identifying an area of search

Table 1 – Business rules for the queries identified by the GetDetails attribute

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
1	ExpectedCallOfSelectedShip	Data relevant to the expected call of a ship (on the basis of ETA) The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification listed by the query: o *VesselIdentification* o *VoyageInformation* o *PreArrival3Days Notification Details* o *PreArrival24hours Notification Details* o *HazmatInformation (if available)*	(IMONumber or MMSINumber) StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**A DateTime set by the requester**" EndDateTime = **"StartDateTime"** **<u>Rules</u>** The SSN EIS shall first identify all the Ship Calls for the specified vessel with ETAtoPortOfCall "in the future" with respect to the StartDateTime set by the data requester. Then, the query shall retrieve the ShipCall with ETAtoPortOfCall closest to the StartDateTime The applicable rules are: [DateTime="SentAt" of the request] <=StartDateTime<=[DateTime="SentAt" of the request" plus 30 Days] Last update of MIN (ETAtoPortOfCall) from pre-arrival notifications to be listed >= [Datetime=" StartDateTime"]
2	MostRecentArrivalOfSelectedShip	Search for the most recent arrival of a ship (on the basis of ATAPortOfCall) The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification listed by the query: o *VesselIdentification* o *VoyageInformation* o *PreArrival3DaysNotificationDetails* o *PreArrival24hoursNotificationDetails* o *ArrivalNotification Details* o *HazmatInformation(if available)*	(IMONumber or MMSINumber) StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**A DateTime set by the requester**" EndDateTime = **"StartDateTime"** **<u>Rules</u>** The SSN EIS shall first identify all the Ship Calls for the specified vessel with ATAPortOfCall "in the past" with respect to the StartDateTime set by the data requester. Then, the query shall list the ShipCall with ATAPortOfCall closest to the StartDateTime The applicable rules are: [DateTime="SentAt" of the request] minus 30 Days <=StartDateTime<=[DateTime="SentAt] MAX(ATAPortOfCall)<= **"StartDateTime"**, AND (if available) the [ETDfromPortOfCall or ATDPortOfCall(specified in the PortPlus notification that gives the Max (ATAPortOfCall))>= **StartDateTime**]

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
3	MostRecentDepartureOfSelectedShip	Search for the most recent departure notification of a vessel (on the basis of ATDPortOfCall) The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification listed by the query: o *VesselIdentification* o *VoyageInformation* o *PreArrival3DaysNotificationDetails* o *PreArrival24hoursNotificationDetails* o *ArrivalNotificationDetails* o *DepartureNotification Details* o *HazmatInformation(if available)*	(IMONumber or MMSINumber) StartDateTime EndDateTime	Values set for Start DateTime - EndDateTime StartDateTime = "**A DateTime set by the requester within the last 30 calendar days**" EndDateTime = **"StartDateTime"** <u>Rules</u> The SSN EIS shall first identify all the Ship Calls for the specified vessel with ATDPortOfCall "in the past" with respect to the StartDateTime set by the data requester. Then, the query shall list the ShipCall with ATDPortOfCall closest to the StartDateTime The applicable rules are: [DateTime="SentAt" of the request] minus 30 Days <=StartDateTime<=[DateTime="SentAt] [MAX (ATDPortOfCall) from PortPlus notification <= **StartDateTime**] Following the departure of the vessel, should there be Hazmat on-board, the Hazmat for the voyage towards the NextPort shall be provided in the HazmatInformation.
4	RecentAndCurrentShipCallsOfSelectedShip	Search for ship calls of a given vessel at a specific (selectable) timeframe within the last 30 days on the basis of ATAPortOfCall The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: o *VesselIdentification* o *VoyageInformation* o *PreArrival3Days Notification Details* o *PreArrival24hours Notification Details* o *ArrivalNotification Details (if available)*	(IMONumber or MMSINumber) StartDateTime EndDateTime	Values set for Start DateTime - EndDateTime StartDateTime = "**A DateTime set by the requester within the last 30 calendar days**" EndDateTime = **"A DateTime set by the requester within the last 30 calendar days from the StartDateTime"** <u>Rules</u> The SSN EIS shall first identify all the recent Ship Calls for the specified vessel with ATAPortOfCall "in the past" with respect to the StartDateTime set by the data requester and within the period specified by the StartDateTime and EndDateTime. Furthermore shall identify, if registered in the system, the Ship Call with ATDPortOfCall in the future (with respect to the EndDateTime set by the data requester). The calendar period between StartDateTime and EndDateTime cannot be more than 30 days The query shall return the data of these Ship Calls: [DateTime="SentAt" of the request] minus 30 Days <= StartDateTime <= [DateTime="SentAt] [StartDateTime minus 30 Days <=EndDateTime<=StartDateTime] [StartDateTime>= ATAPortOfCall from PortPlus notification >= EndDateTime] AND [ATDPortOfCall (if available) >=EndTimeDate]

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
5	ExpectedShipCallsAt EUPort	Search for expected Ship Calls at a given (to be specified) port for a specific (selectable) timeframe within the next 30 days (on the basis of ETA) The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details*	PortOfCall StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**A DateTime set by the requester**" EndDateTime = **"A DateTime set by the requester" within the next 30 calendar days from the StartDateTime** **Rules** The SSN EIS shall first identify all the Ship Calls for the specified vessel with ETAtoPortOfCall "in the future" with respect to the StartDateTime set by the data requester and within the period specified by the StartDateTime and EndDateTime.. Query shall list only those PortPlus notifications related to ship calls where the ATAPortOfCall value is still not specified by the data providers Value ZZUKN for PortOfCall is not allowed [DateTime="SentAt" of the request] **plus 30 Days** .>=StartDateTime.>=[DateTime="SentAt] [ETAtoPortOfCall from PortPlus notification >= **StartDateTime**]
6	CurrentShipCallsAtEU Port	Search for current Ship Calls at a given port (Calls with ATAPortOfCall within the last 24 hours or less) within a timeframe in the last 24 hours The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3DaysNotificationD etails* ○ *PreArrival24hoursNotificatio nDetails* ○ *ArrivalNotification Details*	PortOfCall StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**A DateTime set by the requester within the last 24 hours**" EndDateTime = **"A DateTime set by the requester within the last 24 hours"** **Rules** The SSN EIS shall first identify all the Ship Calls for the specified vessel with ATAPortOfCall "in the past" with respect to the StartDateTime set by the data requester and within the period specified by the StartDateTime and EndDateTime. The Ship Calls data will be listed by the query. Value ZZUKN for PortOfCall is not allowed. Query shall list only those PortPlus notifications related to ship calls where the ATAPortOfCall value is known. [DateTime="SentAt" of the request] **minus 24 hours** <=StartDateTime<=DateTime="SentAt] [StartDateTime>=ATAPortOfCall >= EndDateTime] AND [ETDfromPortOfCall (if available) or ATDPortOfCall >=EndTimeDate]

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
7	CompletedShipCallsAt EUPort	Search for completed Ship Calls at a given (to be specified) port for a specific (selectable) timeframe within the last 30 days on the basis of ATDPortOfCall The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3DaysNotificationD etails* ○ *PreArrival24hoursNotificatio nDetails* ○ *ArrivalNotificationDetails* ○ *DepartureNotification Details*	PortOfCall StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = **"A DateTime set by the requester within the last 30 days"** EndDateTime = **"A DateTime set by the requester within the last 30 days"** <u>Rules</u> The SSN EIS shall first identify all the Ship Calls for the specified vessel with ATDPortOfCall "in the past" with respect to the StartDateTime set by the data requester and within the period specified by the StartDateTime and EndDateTime.. The Ship Calls data will be listed by the query. Value ZZUKN for PortOfCall is not allowed Query shall list only those PortPlus notifications related to ship calls where the ATDPortOfCall value is known. [DateTime="SentAt" of the request] **minus 30 days** <=StartDateTime<=DateTime="SentAt] [DateTime="SentAt" of the request] **minus 30 days** <=EndDateTime<=DateTime="SentAt] [StartDateTime>=ATDPortOfCall from PortPlus notification >= EndDateTime]
8	LatestRegisteredShip CallDataOfSelectedShip	Provision of the ship call information for the Ship Call last registered to SSN EIS (considering the "SentAt"of the PortPlus notification with respect to the "SentAt" datetime of the request message The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details* ○ *ArrivalNotification Details* ○ *DepartureNotification Details* ○ *HazmatInformation(if available)*	(IMONumber or MMSINumber) StartDateTime EndDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**SentAt of the request**" EndDateTime = "**SentAt of the request**" <u>**Rules**</u> [Max (SentAt) of the listed PortPlus notification<= StartDateTime]

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
9	ShipCallsRegisteredBySSNYesterday	Provision of a list of data related to all the ship calls registered in SSN within the previous calendar date from the date specified in the StartDateTime attribute. The provision of data will be based on a pre-calculated query The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification (s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details* ○ *ArrivalNotification Details* ○ *DepartureNotificationDetails*	StartDateTime	<u>Values set for Start DateTime - EndDateTime</u> StartDateTime = "**A DateTime set by the requester within the last 30 days**"
10	LatestCallUpdates	Data Requestor requests to get a list of data related to all ship calls registered in SSN within the time window specified between *StartDateTime* and *EndDateTime* attributes. The query shall return the data included in the following specific elements of the *PortPlus* notification(s) listed by the query, as relevant: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details* ○ *ArrivalNotification Details* ○ *DepartureNotification Details*	- StartDateTime - EndDateTime	**StartDateTime** and **EndDateTime** are <u>DateTimes set by the requester within the last 24 hours from the **SentAt** timestamp</u> SSN shall provide in the response the most updated information for ShipCalls that were registered and/ or updated in the SSN database during the period defined by the query criteria (StartDateTime/ EndDateTime). SSN shall provide information only for those ShipCalls that were <u>processed and SSN was able to resolve potential inconsistencies of the incoming messages (e.g. mismatching ship's MMSI or IMO numbers between notifications).</u>
11	LatestCallInfoAtSpecific Port	Data Requestor requests to get a list of data related to all ship calls registered in SSN within the time window for a specific port and for a period specified between *StartDateTime* and *EndDateTime* attributes. The query shall return the data included in the following specific elements of the *PortPlus* notification(s) listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details* ○ *ArrivalNotification Details* ○ *DepartureNotificationDetails*	- StartDateTime - EndDateTime - PortOfCall	**StartDateTime** and **EndDateTime** are <u>DateTimes set by the requester within the last 24 hours from the **SentAt** timestamp</u> SSN shall provide in the response the new ShipCall registered in SSN and/ or updates of previous ShipCalls that were registered and/ or updated in the SSN database during the period defined by the query criteria (StartDateTime/ EndDateTime). SSN shall provide information only for those ShipCalls that were <u>processed and SSN was able to resolve potential inconsistencies of the incoming messages.</u>

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
12	ListExpectedCallsOfSelectedShip	Data relevant to expected calls of a ship (on the basis of ETA) The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3DaysNotificationDetails* ○ *PreArrival24hoursNotificationDetails*	- (IMONumber or MMSINumber) - StartDateTime - EndDateTime	Values set for **Start DateTime – EndDateTime** StartDateTime = "A DateTime set by the requester" EndDateTime = "StartDateTime" Rules The SSN EIS shall first identify all the Ship Calls for the specified vessel with ETAtoPortOfCall "in the future" with respect to the StartDateTime set by the data requester. Then, the query shall list the ShipCall with ETAtoPortOfCall closest to the StartDateTime The applicable rules are: [DateTime="SentAt" of the request] <=StartDateTime<=[DateTime="SentAt" of the request" plus 30 Days] Last update of MIN (ETAtoPortOfCall) from pre-arrival notifications to be listed >= [Datetime=" StartDateTime"]
13	GetActiveHazmatForSelectedShip	This query enables the retrieval of the Hazmat notification that is active for a selected ship at a timestamp that could be defined in a period of +/-7days from SentAt timestamp The query shall return a confirmation on dangerous goods availability on board as well as the data included in the following specific elements of the PortPlus notification listed by the query: ○ *VesselIdentification* ○ *VoyageInformation* ○ *PreArrival3Days Notification Details* ○ *PreArrival24hours Notification Details* ○ *HazmatInformation (if available)*	- (IMONumber or MMSINumber) - StartDateTime - EndDateTime	Values set for **Start DateTime - EndDateTime** StartDateTime = "**A DateTime set by the requester" within +/- 7days from SentAt** EndDateTime = **"StartDateTime"** **Definitions and rules** **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 (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. <u>**Active Hazmat (EU departure):**</u> A Hazmat EU departure is considered "active" from the ATD (or in case of non-availability of ATD such in the case of

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules

				SSN V1 Hazmat notifications, the ETD) provided by the departing port:
				
				• Until an ATA Port of Call notification will be received for the ship "in the future" with respect to the ATD (ETD) from the port of departure, or
				• Until a new Hazmat declaration for the ship will become active, or
				• Until the period [ATD (ETD) from departure port+EVD] is elapsed if vessel is heading towards a European destination
				• Until the period [ATD (ETD) from departure port+WVD] is elapsed if vessel is heading towards a non-EU port or unknown destination.
				
				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)]
				
				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

Nr.	Value of the GetDetails attribute in the MS2SSN_ShipCall Req_msg	Information expected to be included in the response message	Attributes than need to be set, at minimum, for accepting the request message as valid	Query will return results related to these rules
				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] 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

Additional General Rules:

No.	General Rule	Applicable Queries
1	Access control restrictions apply on the results returned by the query based on the SSN access right policy. The LOCODE of the Port of Call of the ship should be among the permitted locations for the user requesting the data.	1.ExpectedCallOfSellectedShip 2.MostRecentArrivalOfSelectedShip 3.MostRecentDepartureOfSelectedShip 8.LatestRegisterShipCallOfSelectedShip 13.GetActiveHazmatForSelectedShip
2	The issuer of a notification concerning HazmatEUdeparture shall be always enabled to receive a response for Hazmat Summary or Hazmat details to a request for information (should the information requested are those the requestor provided with a notification sent to SSN)	
3	In case of change of the ship destination , the Authority responsible for the new Port of destination of the ship would be always in a position to retrieve the HazmatEUdeparture information provided with the notification by the port of departure even in the case that Hazmat provider declared as destination ZZUKN or a different Port	

Examples of request messages

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

```
<MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn">
  <Header Version="2.0" MSRefId="TST-REQ-000000010328"
    SentAt="2011-03-23T15:00:22Z" TimeoutValue="30"
    From="NCANLTST1" To="SSN" />
  <Body>
    <RequiredResponseCriteria>
      <ShipCallResp GetDetails="MostRecentArrivalOfSelectedShip"
        GetHazmat="HazmatDetails" />
      <SearchCriteria>
        <TimePeriodCriteria StartDateTime="2011-03-23T15:00:00Z"
          EndDateTime="2011-03-23T15:00:00Z" />
        <ShipIdentificationCriteria IMONumber="9136931" />
      </SearchCriteria>
    </RequiredResponseCriteria>
  </Body>
</MS2SSN_ShipCall_Req>
```

SSN2MS_ShipCall_Req.xml message

Introduction The **SSN2MS_ShipCall_Req.xml** message is sent by SafeSeaNet to the Member State owning the details requested (*data provider*) in order to request the relevant notification details (e.g. HazMat) 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 owner of the notification details) is able to talk XML with SafeSeaNet (please refer to Table 1 – Business rules for the queries identified by the GetDetails attribute 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.

Entities				Attributes	Occ
Header					*1*
				Version	1
				TestId	0-1
				SSNRefId	1
				SentAt	1
				TimeoutValue	1
				From	1
				To	1
Body					*1*
	RequiredResponseCriteria				*1*
		ShipCallResp			*0-1*
				GetHazmat	1
				<TBD1>[10]	
				<TBD2>[10]	
				<TBD3>[10]	
		<TBD>[11]			*0-1*
				<TBD1>	
				<TBD2>	
				<……>	
				<TBDx>	
		SearchCriteria			*1*
			ShipIdentificationCriteria		*0-1*
				IMONumber	0-1
				MMSINumber	0-1

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[10] Additional attributes could be added in future versions of SSN

[11] Additional elements could be added in future versions of SSN, e.g. in case it is decided that the same message structure will be used for requests for Incident reports, MRS data, etc

Entities				Attributes	Occ
				CallSign	0-1
				ShipName	0-1
			AdditionalSearchCriteria		*0-1*
				ShipCallId	0-1
				GetHazmatType	0-1
				<TBD>[12]	
			<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.

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).
TimeoutValue	1	None
From	1	None
To	1	None
Body	**1**	**Body Node**
RequiredResponseCriteria	**1**	**SearchCriteria element node(s). It defines the scope of the query. Only one 1st level element node might be given**
ShipCallResp	**0-1**	*ShipCallResp* - *1st level* **ElementNode (child to RequiredResponseCriteria) defining the business rules related to the anticipated response – Child to RequiredResponseCriteria**
GetHazmat	0-1	The response message should include the HAZMAT information of the specific ship call. To this scope the ShipCallId should be included under *AdditionalSearch Criteria*
<TBD1>[13]		TBD rules
<TBD2>[1]		TBD rules
<TBD3>[1]		TBD rules
<TBD>	**0-1**	**<TBD> - 1st level element node (child to RequiredResponseCriteria) defining the business rules related to the anticipated response**
<TBD1>[14]		TBD rules
<TBD2>[2]		TBD rules

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[12] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port
[13] Additional attributes could be added in future versions of SSN
[14] Additional elements could be added in future versions of SSN, e.g. in case it is decided that the same message structure will be used for requests for Incident reports, MRS data, etc

Item	Occ	Description
…		TBD rules
<TBDx>[2]		TBD rules
SearchCriteria	**1**	*SearchCriteria* **element node(s). Only 1 element node might be given – Child to RequiredResponseCriteria**
ShipIdentificationCriteria	**0-1**	*Ship-identification-based* **search criteria element node – Child to SearchCriteria**
IMONumber	0-1	Refer to business rules Table 1 dentifying when this attribute has to be provided by the data requester
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
AdditionalSearchCriteria	**0-1**	*AdditionalSearchCriteria* **- Child to SearchCriteria element**
ShipCallId	0-1	The reference identifier of the ship call for which details are requested Mandatory in case the request message relates with provision of Hazmat details
GetHazmatType	**0-1**	If GetHazmat is quoted, then this attribute should be included
<TBD>[15]		TBD rules
<TBD>		TBD rules

Examples of request messages

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

```
<SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn">
  <Header TimeoutValue="30" SSNRefId="196231249" To="NCANLTST1"
    From="SSN" SentAt="2011-04-12T09:58:16Z" Version="2.0" />
  <Body>
    <RequiredResponseCriteria>
      <ShipCallResp GetHazmat="HazmatDetails" />
      <SearchCriteria>
        <ShipIdentificationCriteria
          IMONumber="9136931" MMSINumber="249698000" CallSign="9HYH9"
          ShipName="VERILA" />
        <AdditionalSearchCriteria ShipCallId="SC-000000021264"
          GetHazmatType="HazmatTowardPortOfCall" />
      </SearchCriteria>
    </RequiredResponseCriteria>
  </Body>
</SSN2MS_ShipCall_Req>
```

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[15] In future versions of SSN – should the message structure will be used to accommodate additional queries to the SSN data, additional elements could be defined, e.g. an element identifying an area of search

MS2SSN_ShipCall_Res.xml message

Introduction   The **MS2SSN_ShipCall_Res.xml** message is sent by the Member State owning 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) 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.

Elements	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefld	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		*1*
ProvidedResponseCriteria		*1*
ShipCallResp		*0-1*
	GetHazmat	1
	<TBD1>[16]	
	<TBD2>[16]	
	<TBD3>[16]	
<TBD> [17]		*0-1*
	<TBD1>	
	<TBD2>	
	<……>	
	<TBDx>	
SearchCriteria		*1*
ShipIdentificationCriteria		*0-1*
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1

Field Code Changed

Field Code Changed

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[16] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port

[17] Additional elements could be added in future versions of SSN, e.g. in case it is decided that the same message structure will be used for requests for Incident reports, MRS data, etc

Elements			Attributes	Occ
AdditionalSearchCriteria				*0-1*
			ShipCallId	0-1
			GetHazmatType	0-1
			<TBD>[18]	
QueryResults				*0-1*
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
			ETDFromLastPort	0-1
			ETAToPortOfCall	0-1
			ETDFromPortOfCall	0-1
			NextPort	0-1
			ETAToNextPort	0-1
			PoBasinHazmatNotification	0-1
HazmatInformation				*0-1*
HazmatSummary				*0-1*
			INFShipClass	0-1
			< TBD1>	
	DG			*0-99*
			DGClassification	1
HazmatNotificationDetailsViaXML				*0-1*
CargoInformation				*1*
PlacementOfGoods				*0-∞*
			LocationOnBoardGoods	1
	DPG			*1-∞*
			TechnicalName	1
			IMOHazardClass	1
			UNNumber	1
	WeightGross			*0-1*
			UnitOfMeasurementGross	1
			GrossQuantity	1
	WeightNet			*0-1*
			UnitOfMeasurementNet	1
			NetQuantity	1
PlacementOfGoodsInContainer				*0-∞*
			TransUnitId	1
			LocationOnBoardContainer	1
	DPG			*1-∞*

Field Code Changed

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[18] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port

Elements							Attributes	Occ
							TechnicalName	1
							UNNumber	1
							IMOHazardClass	1
						WeightGross		*0-1*
							UnitOfMeasurementGross	1
							GrossQuantity	1
						WeightNet		*0-1*
							UnitOfMeasurementNet	1
							NetQuantity	1
		TBD[19]						
							< TBD1>	

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	1	None
Body	**0-1**	**Body Node (only optional when StatusCode="InvalidFormat")**
ProvidedResponseCriteria	**1**	**ProvidedResponseCriteria element node(s). It defines the scope of the query. Only one _1st level_ element node might be given**
ShipCallResp	**0-1**	*ShipCallResp – 1st level* **ElementNode (child to** *ProvidedResponseCriteria***) defining the business rules related to the anticipated response**
GetHazmat	0-1	
<TBD1>[20]		
<TBD2>[1]		From the *SSN2MS_ShipCall_Req.xml* request
<TBD3>[1]		

---

[19] In future versions of SSN additional elements might be defined – should the message structure will be used for communicating the details of other type of notifications (e.g. MRS, Incident reports for identified vessels, etc

[20] Additional attributes could be added in future versions of SSN

Item	Occ	Description	
\<TBD\>	**0-1**	**\<TBD\> - *1st level* Element Node (child to ProvidedResponseCriteria) defining the business rules related to the anticipated response**	
\<TBD1\>[21]			
\<TBD2\>[2]		From the *SSN2MS_ShipCall_Req.xml* request	
…			
…			
\<TBDx\>[2]			
SearchCriteria	**1**	*SearchCriteria element node(s). Only 1 element node might be given – Child to ProvidedResponseCriteria*	
ShipIdentificationCriteria	**0-1**	*Ship-identification-based* search criteria element node – Child to *SearchCriteria*	
IMONumber	0-1		
MMSINumber	0-1	From the *SSN2MS_ShipCall_Req.xml* request	
CallSign	0-1		
ShipName	0-1		
AdditionalSearchCriteria	**0-1**	*AdditionalSearchCriteria element node – Child to SearchCriteria*	
ShipCallId	0-1	From the *SSN2MS_ShipCall_Req.xml* request	
GetHazmatType	**0-1**	If GetHazmat is quoted, then GetHazmatType should be included	
\<tbd1\>[22]			
QueryResults	**0-1**	*QueryResults Element node, child to Body, including the results of the query to be executed according to the rules and criteria in the ShipCallResp element of the MS2SSN_ShipCall_Req.xml message.* **The *QueryResults* element is not to be included in the response only in case the query does not have any results to return**	
VesselIdentification	**1**	*VesselIdentification element node ("child" to the QueryResults element)*	
IMONumber	0-1		
MMSINumber	0-1	latest update of the attribute registered in NCA database for the PortPlus notification identified by the ShipCallId	
CallSign	0-1		
ShipName	0-1		
Flag	0-1		
VoyageInformation	**1**	*VoyageInformation element ("child" to the QueryResults element)*	
ShipCallId	1	Reference identifier of the record included in the list returned by the query.	
LastPort	0-1	**none**	latest update of the attribute registered in NCA
PortOfCall	0-1	**none**	
PositionInPortOfCall	0-1	**none**	
ETDFromLastPort	0-1	Format "YYYY-MM-	

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[21] Additional elements could be added in future versions of SSN, e.g. in case it is decided that the same message structure will be used for requests for Incident reports, MRS data, etc

[22] In future versions of SSN – should the message structure will be used to accommodate additional queries to the SSN data, additional elements could be defined, e.g. an element identifying an area of search

Item	Occ	Description	
		DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).	database for the PortPlus notification identified by the ShipCallId
ETAToPortOfCall	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).	
ETDFromPortOfCall	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).	
NextPort	0-1	**none**	
ETAToNextPort	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).	
PoBasinHazmatNotification	0-1	It refers to the value of the number of persons on board reported in the HAZMAT notification for which details were requested. Mandatory in case the value of attribute HazmatOnBoardYorN is **Y**	
HazmatInformation	**0-1**	*HazmatInformation* element node – child to *QueryResults* element	
HazmatSummary	**0-1**	*HazmatCargoInformation* second level-element node ("child" to the *HazmatInformation* element)	
INFShipClass	0-1	latest update of the attribute registered in NCA database for the voyage reported using the above mentioned ShipCallId	
DG	**0-99**	**Dangerous Goods element**	
DGClassification	1	latest update of the attribute registered in NCA database for the voyage reported using the above mentioned ShipCallId	
HazmatNotificationDetails ViaXML	**0-1**	*HazmatNotificationDetailsViaXML* element node("child" to the *HazmatInformation* element) **Mandatory if *HazmatNotificationDetails ViaPhoneFaxOrURL* not provided**	
CargoInformation	**1**	*CargoInformation* element node – Child to *HazmatNotificationDetailsViaXML*	
PlacementOf Goods	**0-∞**	*PlacementOfGoods* element describing the location of goods which are not in containers – child of *CargoInformation*	
LocationOnBoar dGoods	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId	

Item	Occ	Description
DPG	**1-∞**	*DPG* **element node describing each type of dangerous goods on board – child of** *CargoInformation*
TechnicalName	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
UNNumber	1	
IMOHazardClass	1	
WeightG ross	**0-1**	*WeightGross* **element specifying the gross weight of the dangerous good. Mandatory if** *WeightNet* **not present. – Child of** *DPG*
UnitOfMeasure mentGross	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
GrossQuantity	1	
WeightNe t	**0-1**	*WeightNet* **element specifying the net weight of the dangerous good. Mandatory if** *WeightGross* **not present. - – Child of** *DPG*
UnitOfMeasure mentNet	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
NetQuantity	1	
PlacementOf GoodsInCont ainer	**0-∞**	*PlacementOfGoodsInContainer* **element specifying the placement of the container which contains the dangerous good – child of** *CargoInformation*
TransUnitId	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
LocationOnBoar dContainer	1	
DPG	**1-∞**	*DPG* **element node describing each type of dangerous goods on board. – Child of** *PlacementOfGoodsInContainer*
TechnicalName	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
UNNumber	1	
IMOHazardClass	1	
WeightG ross	**0-1**	*WeightGross* **element specifying the gross weight of the dangerous good. Mandatory if** *WeightNet* **not present. – Child of** *DPG*
UnitOfMeasure mentGross	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
GrossQuantity	1	
WeightNe t	**0-1**	*WeightNet* **element specifying the net weight of the dangerous good. Mandatory if** *WeightGross* **not present. – Child of** *DPG*
UnitOfMeasure mentNet	1	latest update of the attribute registered in NCA database for the Hazmat declaration notified to SSN EIS using the above mentioned ShipCallId
NetQuantity	1	

Examples of response messages

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

```xml
<MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"
  <Header Version="2.0" MSRefId="TST-RSP-000000000006715"
    SSNRefId="196231249" SentAt="2011-03-23T15:00:26Z" From="NCANLTST1"
    To="SSN" StatusCode="OK" StatusMessage="Message processed successfully" />
  <Body>
    <ProvidedResponseCriteria>
      <ShipCallResp GetHazmat="HazmatDetails" />
      <SearchCriteria>
        <ShipIdentificationCriteria
          IMONumber="9136931" MMSINumber="249698000" CallSign="9HYH9"
          ShipName="VERILA" />
        <AdditionalSearchCriteria ShipCallId="SC-000000021264"
          GetHazmatType="HazmatTowardPortOfCall" />
      </SearchCriteria>
    </ProvidedResponseCriteria>
    <QueryResults>
      <VesselIdentification IMONumber="9136931"
        MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
      <VoyageInformation ShipCallId="SC-000000021264"
        LastPort="TRIST" PortOfCall="NLRTM" ETDFromLastPort="2011-03-22T18:00:00Z"
        ETAToPortOfCall="2011-03-24T12:30:00Z" ETDFromPortOfCall="2011-03-25T13:00:00Z"
        PoBasinHazmatNotification="5" />
      <HazmatInformation>
        <HazmatSummary>
          <DG DGClassification="IBC" />
        </HazmatSummary>
        <HazmatNotificationDetailsViaXML>
          <CargoInformation>
            <PlacementOfGoodsInContainer
              LocationOnBoardContainer="02S" TransUnitId="34">
              <DPG TechnicalName="tech1" UNNumber="NONE"
                IMOHazardClass="IBC">
                <WeightNet UnitOfMeasurementNet="KGM"
                  NetQuantity="11" />
              </DPG>
            </PlacementOfGoodsInContainer>
          </CargoInformation>
        </HazmatNotificationDetailsViaXML>
      </HazmatInformation>
    </QueryResults>
  </Body>
</MS2SSN_ShipCall_Res>
```

SSN2MS_ShipCall_Res.xml message

Introduction

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

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

Message description

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

PortPlus Message – SSN2MS_ShipCall_Res.xml	Attributes	Occ
Header		*1*
	Version	1
	TestId	0-1
	MSRefId	1
	SSNRefld	1
	SentAt	1
	From	1
	To	1
	StatusCode	1
	StatusMessage	0-1
Body		*1*
ProvidedResponseCriteria		*1*
ShipCallResp		*0-1*
	GetDetails	1
	GetHazmat	0-1
	<TBD1>	0-1
SearchCriteria		*1*
TimePeriodCriteria		*1*
	StartDateTime	1
	EndDateTime	1
ShipIdentificationCriteria		*0-1*
	IMONumber	0-1
	MMSINumber	0-1
	CallSign	0-1
	ShipName	0-1
PortOfCallIdentificationCriteria		*0-1*
	PortOfCall	1
	<TBD>	
AdditionalSearchCriteria		*0-1*
FlagCriteria		*0-99*

PortPlus Message – SSN2MS_ShipCall_Res.xml						Attributes	Occ
						Flag	1
						<TBD>	0-1
QueryResults							*0-1*
	PortPlusNotificationDetailsExludingHazmatInfo_LIST						*0-∞*
		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
						ETDfromLastPort	0-1
						ETAToPortOfCall	0-1
						ETDFromPortOfCall	0-1
						NextPort	0-1
						ETAToNextPort	0-1
		PreArrival3DaysNotificationDetails					*0-1*
						PossibleAnchorage	0-1
						PlannedOperations	0-1
						PlannedWorks	0-1
						ShipConfiguration	0-1
						CargoVolumeNature	0-1
						ConditionCargoBallastTanks	0-1
		PreArrival24HoursNotificationDetails					*0-1*
						POBVoyageTowardsPortOfCall	1
		ArrivalNotificationDetails					*0-1*
						ATAPortOfCall	1
						Anchorage	0-1
		DepartureNotificationDetails					*0-1*
						ATDPortOfCall	1
		HazmatConfirmation					*1*
						HazmatOnBoardYorN	1
						PoBasinHazmatNotification	0-1
	HazmatInformation						*0-1*
		HazmatSummary					*0-1*
						INFShipClass	0-1
			DG				*0-99*
						DGClassification	1
		HazmatNotificationDetailsViaXML					*0-1*
			CargoInformation				*1*
				PlacementOfGoods			*0-∞*
						LocationOnBoardGoods	1
					DPG		*1-□*
						TechnicalName	1
						IMOHazardClass	1
						UNNumber	1

PortPlus Message – SSN2MS_ShipCall_Res.xml								Attributes	Occ
							WeightGross		*0-1*
								UnitOfMeasurementGross	1
								GrossQuantity	1
							WeightNet		*0-1*
								UnitOfMeasurementNet	1
								NetQuantity	1
						PlacementOfGoodsInContainer			*0-∞*
								TransUnitId	1
								LocationOnBoardContainer	1
						DPG			*1-∞*
								TechnicalName	1
								UNNumber	1
								IMOHazardClass	1
							WeightGross		*0-1*
								UnitOfMeasurementGross	1
								GrossQuantity	1
							WeightNet		*0-1*
								UnitOfMeasurementNet	1
								NetQuantity	1
					HazmatNotificationDetailsViaPhoneFaxOrURL				*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
			CargoManifest						*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

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.

Concerned with the Hazmat declaration the following two rules apply:

Rule 1: Should the data requester request the provision of HAZMAT declaration summary the response message shall return the summary data and Cargo Manifest details, as indicated in the table below:

	Then the XML message contains the following node(s)…

	…
	\<HazmatInformation….\>
	    \< HazmatSummary…\>
	    \< CargoManifest…\>
	      \<UrlDetails…/\>
	      OR
	        \< ContactDetails …/\>
	\</ HazmatInformation …\>
	…

Rule 2: Should the data requester request the provision of HAZMAT declaration details - depending on the *data provider* capabilities - the response message shall return either the details in XML or a URL for the relevant declaration or contact (phone/ fax) details, as indicated in the table below:

If the *data provider…*	Then the XML message contains the following node(s)…

is able to talk XML with SafeSeaNet	…
	\<HazmatInformation….\>
	    \< HazmatNotificationDetailsViaXML…\>
	    \< CargoManifest…\>
	\</ HazmatInformation …\>
	…

can only provide notification details as downloadable files	…
	\<HazmatInformation….\>
	    \< HazmatNotificationDetailsViaPhoneFaxOrURL …\>
	    \<UrlDetails…/\>
	    \< CargoManifest…\>
	    \<UrlDetails…/\>
	      OR
	    \< ContactDetails .../\>
	\</ HazmatInformation …\>
	…

is only accessible via phone/fax/email	…
	\<HazmatInformation….\>
	    \< HazmatNotificationDetailsViaPhoneFaxOrURL …\>
	    \< ContactDetails .../\>
	    \< CargoManifest…\>
	    \<UrlDetails…/\>
	      OR
	    \< ContactDetails .../\>
	\</ HazmatInformation …\>
	…

Item	Occ	Description
Header	**1**	**Header Node**
Version	1	none
TestId	0-1	none
MSRefId	1	<u>The MSRefId must be unique</u>
SSNRefId	1	<u>The SSNRefId must be unique</u>
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")**
ProvidedResponseCriteria	**1**	***ProvidedResponseCriteria* element node(s). It defines the scope of the query. Only one <u>*1st* level</u> element node might be given**
ShipCallResp	**0-1**	*ShipCallResp – <u>1st level</u> Element Node (child to ProvidedResponseCriteria) defining the business rules related to the anticipated response*
GetDetails	1	From original *MS2SSN_ShipCall_Req.xml* request
GetHazmat	0-1	
<TBD1>[23]		
<TBD>[24]	**0-1**	*<TBD> - <u>1st level</u> Element Node (child to ProvidedResponseCriteria) defining the business rules related to the anticipated response*
<TBD1>		From original *MS2SSN_ShipCall_Req.xml* request
<TBD2>		
…		
…..		
<TBDx>		
SearchCriteria	**1**	***SearchCriteria* element node(s). Only 1 element node might be given – *Child to ProvidedResponseCriteria***
ShipIdentificationCriteria	**0-1**	***ShipIdentification*-based search criteria element node – *Child to SearchCriteria***
IMONumber	0-1	From original *MS2SSN_ShipCall_Req.xml* request
MMSINumber	0-1	
CallSign	0-1	
ShipName	0-1	
PortOfCallIdentificationCriteria	**0-1**	***VoyageIdentification*-based search criteria element node - – *Child to SearchCriteria***
PortOfCall	1	From original *MS2SSN_ShipCall_Req.xml* request
<TBD>[25]	1	
TimePeriodCriteria	**1**	***TimePeriod*-based search criteria element node - – *Child to search criteria e***

---

[23] Additional attributes could be added in future versions of SSN

[24] Additional elements could be added in future versions of SSN, e.g. in case it is decided that the same message structure will be used for requests for Incident reports, MRS data, etc

[25] Additional attributes for future version of SSN to be used e.g. to restrict the query/ response to data concerning a subsidiary location within a port

Item	Occ	Description	
StartDateTime	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm) – From original *MS2SSN_ShipCall_Req.xml* request	
EndDateTime	1		
AdditionalSearchCriteria	**0-1**		
FlagCriteria	**0-99**	*FlagCriteria element*	
Flag	1	From original *MS2SSN_ShipCall_Req.xml* request	
<TBD1>[26]			
QueryResults	**0-1**	**Element node, child to Body, including the results of the query to be executed according to the rules and criteria in the *ShipCallResp* element of the MS2SSN_ShipCall_Req.xml message.** **The *QueryResults* element is not to be included in the response only in case the query does not have any results to return**	
PortPlusNotificationDetailsExludi ngHazmatInfo_LIST	**0-∞**	*Element node, child to QueryResults, returning 0-∞ times the details of PortPlus notifications included in a list created on the basis of the value of the GetDetails attribute included in the relevant MS2SSN_ShipCall_Req.xml message.* *Each record included in the list will provide the latest update of attributes values included in a set of PortPlus notifications stored in SSN EIS corresponding to the unique ShipCallID*	
VesselIdentification	**1**	***VesselIdentification** element node ("child" to the PortPlusNotificationDetailsExluding HazmatInfo_LIST element)*	
IMONumber	0-1	latest update of the attribute registered in SSN EIS notification database for the PortPlus notification identified by the ShipCallID	
MMSINumber	0-1		
CallSign	0-1		
ShipName	0-1		
Flag	0-1		
VoyageInformation	**1**	***VoyageInformation** element node ("child" to the PortPlusNotificationDetailsExluding HazmatInfo_LIST element)*	
ShipCallId	1	Reference identifier of the record included in the list returned by the query. Copies of the unique ShipCallId identifier originally communicated to SSN EIS by the *data provider*	
LastPort	0-1	None	latest update of the attribute registered in SSN EIS notification

---

[26] In future versions of SSN – should the message structure will be used to accommodate additional queries to the SSN data, additional elements could be defined, e.g. an element identifying an area of search

Item	Occ	Description
		database for the PortPlus notification identified by the ShipCallID
PortOfCall	1	None
PositionInPortOfCall	0-1	None
ETDFromLastPort	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
ETAToPortOfCall	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
ETDFromPortOfCall	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
NextPort	0-1	None
ETAToNextPort	0-1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm).
PreArrival3DaysNotification Details	**0-1**	*PreArrival3DaysNotificationDetails element node.* **("child" to the PortPlusNotification Details ExludingHazmatInfo_LIST element)**
PossibleAnchorage	0-1	latest update of the attribute registered in SSN EIS notification database for the PortPlus notification identified by the ShipCallID
PlannedOperations	0-1	
PlannedWorks	0-1	
ShipConfiguration	0-1	
CargoVolumeNature	0-1	
ConditionCargoBallastTanks	0-1	
PreArrival24HoursNotification Details	**0-1**	*PreArrival24HoursNotificationDetails element node. ("child" to the PortPlus NotificationDetailsExludingHazmatInfo_LIST element)*
POBVoyageTowardsPortOfCall	1	latest update of the attribute registered in SSN EIS notification database for the PortPlus notification identified by the ShipCallID

Item	Occ	Description	
ArrivalNotificationDetails	**0-1**	**ArrivalNotificationDetails element node ("child" to the *PortPlusNotification DetailsExluding HazmatInfo_LIST* element)**	
ATAPortOfCall	1	Format "YYYY-MM-DDThh:mm:ssTZD " Where TZD = time zone designator (Z or +hh:mm or -hh:mm).	latest update of the attribute registered in SSN EIS notification database for the PortPlus notification identified by the ShipCallID
Anchorage	0-1	None	
DepartureNotificationDetails	0-1	**DepartureNotification Details element node. ("child" to the *PortPlusNotification Details ExludingHazmatInfo_LIST* element)**	
ATDPortOfCall	1	Format "YYYY-MM-DDThh:mm:ssTZD" Where TZD = time zone designator (Z or +hh:mm or -hh:mm). - latest update of the attribute registered in SSN EIS notification database for the PortPlus notification identified by the ShipCallID	
HazmatConfirmation	**1**	***HazmatConfirmation* second level-element node ("child" to the *PortPlusNotification DetailsExludingHazmatInfo_LIST* element)**	
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	
PoBasinHazmatNotification	0-1	It refers to the value of the number of persons on board reported in the HAZMAT notification for which details were requested. Mandatory in case the value of attribute HazmatOnBoardYorN is **Y**	
HazmatInformation	**0-1**	***HazmatInformation* element node – child to *QueryResults* element**	
HazmatSummary	**0-1**	***HazmatCargoInformation* second level-element node ("child" to the *HazmatInformation* element)** ***Mandatory if neither HazmatNotificationDetailsViaXML nor HazmatNotificationDetails ViaPhoneFaxOrURL provided***	
INFShipClass	0-1	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	
< TBD1			
< TBDx>			
DG	**0-99**	***Dangerous Goods element***	
DGClassification	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	
HazmatNotificationDetailsVia XML	**0-1**	***HazmatNotificationDetailsViaXML* element node("child" to the *HazmatInformation* element)** ***Mandatory if neither HazmatSummary nor HazmatNotificationDetails ViaPhoneFaxOrURL provided***	

Item	Occ	Description
CargoInformation	**1**	*CargoInformation* element node – Child to *HazmatNotificationDetailsViaXML*
PlacementOfGoods	**0-∞**	***PlacementOfGoods* element describing the location of goods which are not in containers – child of *CargoInformation***
LocationOnBoardGoods	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
DPG	**1-∞**	***DPG* element node describing each type of dangerous goods on board - child of *CargoInformation***
TechnicalName	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
UNNumber	1	
IMOHazardClass	1	
WeightGross	**0-1**	***WeightGross* element specifying the gross weight of the dangerous good. Mandatory if *WeightNet* not present. – Child of *DPG***
UnitOfMeasurementGross	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
GrossQuantity	1	
WeightNet	**0-1**	***WeightNet* element specifying the net weight of the dangerous good. Mandatory if *WeightGross* not present. - – Child of *DPG***
UnitOfMeasurementNet	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
NetQuantity	1	
PlacementOfGoodsInContainer	**0-∞**	***PlacementOfGoodsInContainer* element specifying the placement of the container which contains the dangerous good – child of *CargoInformation***
TransUnitId	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
LocationOnBoardContainer	1	
DPG	**1-∞**	***DPG* element node describing each type of dangerous goods on board. – Child of *PlacementOfGoodsInContainer***
TechnicalName	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
UNNumber	1	
IMOHazardClass	1	

Item	Occ	Description
WeightGross	**0-1**	**WeightGross element specifying the gross weight of the dangerous good. Mandatory if *WeightNet* not present. – Child of *DPG***
UnitOfMeasurementGross	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
GrossQuantity	1	
WeightNet	**0-1**	**WeightNet element specifying the net weight of the dangerous good. Mandatory if *WeightGross* not present. – Child of *DPG***
UnitOfMeasurementNet	1	latest update of the attribute registered in NCA database for the voyage towards the PortOfCall identified in the voyage element of this response message
NetQuantity	1	
HazmatNotificationDetailsVia PhoneFaxOrURL	**0-1**	*HazmatNotificationDetailsViaPhoneFaxOrURL element node("child" to the HazmatInformation element)* *Mandatory if neither HazmatSummary nor HazmatNotificationDetailsViaXML provided* If specified, that means the Hazmat notification details are available as a document on a web server (*UrlDetails* must then be specified) or via a phone/fax (*ContactDetails* must then be specified).
UrlDetails	0-1	*Second level element node (child to HazmatNotificationDetailsViaPhoneFaxOrURL indicating the type and the url of the document containing the notification details (if the data provider will store the document on a local web server). Not allowed if ContactDetails specified.*
Url	1	Provides a surrogated URL located at central SSN server masking the original URL provided in the PortPlus Notification of the *data provider*. The *data requestor* system may utilise this URLto communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details. 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
DocType	1	
ContactDetails	0-1	*Second level element node (child to HazmatNotificationDetailsViaPhoneFaxOrURL indicating the contact details to obtain the notification details (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails specified.*
LastName	0-1	latest update of the attribute registered in SSN EIS notification database for the voyage towards

Item	Occ	Description
		the PortOfCall identified in the voyage element of this response message
FirstName	0-1	
LoCode	1	
Phone	1	
Fax	1	
EMail	0-1	
CargoManifest	1	***CargoManifest second level element ("child" to the HazmatInformation element))*** *The cargo manifest should be available as a document on a web server (UrlDetails must then be specified) or via a phone/fax (ContactDetails must then be specified).*
UrlDetails	0-1	*Third level element node (child to* ***CargoManifest****) element node indicating 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). Not allowed if ContactDetails specified.*
Url	1	Provides a surrogated URL located at central SSN server masking the original URL provided in the PortPlus Notification of the *data provider*. The *data requestor* system may utilise this URLto communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details. 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
DocType	1	
ContactDetails	0-1	*Third level element node (child to* ***CargoManifest****) indicating the contact details to obtain the cargo manifest (if the data provider can only provide the information via phone or fax). Not allowed if UrlDetails specified.*
LastName	0-1	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
FirstName	0-1	
LoCode	1	
Phone	1	
Fax	1	
EMail	0-1	

Examples of request messages

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

```xml
<SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn">
  <Header StatusMessage="Message processed successfully"
    StatusCode="OK" SSNRefId="196231252" MSRefId="TST-RSP-000000000006715"
    To="NCANLTST1" From="SSN" SentAt="2011-03-23T15:00:28Z" Version="2.0" />
  <Body>
    <ProvidedResponseCriteria>
      <ShipCallResp GetDetails="MostRecentArrivalOfSelectedShip" GetHazmat="HazmatDetails" />
      <SearchCriteria>
        <TimePeriodCriteria StartDateTime="2011-03-23T15:00:00Z"
          EndDateTime="2011-03-23T15:00:00Z" />
        <ShipIdentificationCriteria IMONumber="9136931" />
      </SearchCriteria>
    </ProvidedResponseCriteria>
    <QueryResults>
      <PortPlusNotificationDetailsExludingHazmatInfo_LIST>
        <VesselIdentification IMONumber="9136931"
          MMSINumber="249698000" CallSign="9HYH9" ShipName="VERILA" />
        <VoyageInformation ShipCallId="SC-000000021264"
          LastPort="TRIST" PortOfCall="NLRTM" ETDFromLastPort="2011-03-22T18:00:00Z"
          ETAToPortOfCall="2011-03-24T12:30:00Z" ETDFromPortOfCall="2011-03-25T13:00:00Z" />
        <PreArrival3DaysNotificationDetails PossibleAnchorage="Y"
          PlannedOperations="unloading and loading" PlannedWorks="maintenance"
          ShipConfiguration="SHT-SBT" CargoVolumeNature="containers"
          ConditionCargoBallastTanks="empty" />
        <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="5" />
        <ArrivalNotificationDetails ATAPortOfCall="2011-03-23T12:32:20Z" />
        <HazmatConfirmation HazmatOnBoardYorN="Y" />
      </PortPlusNotificationDetailsExludingHazmatInfo_LIST>
      <HazmatInformation>
        <HazmatSummary>
          <DG DGClassification="IBC" />
        </HazmatSummary>
        <HazmatNotificationDetailsViaXML>
          <CargoInformation>
            <PlacementOfGoodsInContainer LocationOnBoardContainer="02S" TransUnitId="34">
              <DPG TechnicalName="tech1" UNNumber="NONE" IMOHazardClass="IBC">
                <WeightNet UnitOfMeasurementNet="KGM" NetQuantity="11" />
              </DPG>
            </PlacementOfGoodsInContainer>
          </CargoInformation>
        </HazmatNotificationDetailsViaXML>
        <CargoManifest>
          <ContactDetails LoCode="NLRTM" Fax="987654321" Phone="123456789" />
        </CargoManifest>
      </HazmatInformation>
    </QueryResults>
  </Body>
</SSN2MS_ShipCall_Res>
```

Section 3.6 - 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 37)

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

General flow of the XML messages   The following figure outlines the expected aynchronous 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.

NCA_A (Data Requester)		SafeSeaNet		NCA_B (Data Provider)

MS2SSN_IncidentReport_Req

ACK(HTTP 202 return code)

SSN_Receipt

SSN2MS_IncidentReport_Res

ACK (HTTP 202 return code)
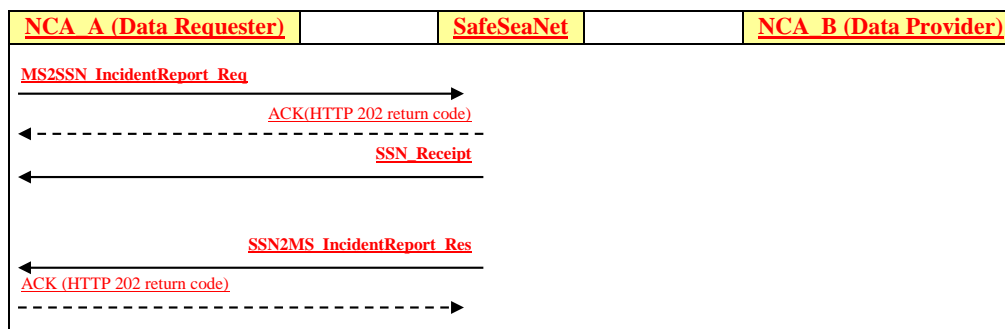
Contents   This section contains the following topics:

Topic	See Page
MS2SSN_Port_Req.xml message	258
SSN2MS_Port_Res.xml message	262

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 *DocDetails* 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.

Elements						Attributes	Occ
Header	.	.	.	.	.		*1*
.						Version	1
.						TestId	0-1
.						MSRefId	1
.						SentAt	1
.						TimeoutValue	1
.						From	1
.	.	.	.	.	.	To	1
Body					.		*1*
	IRQueryCriteria						*1*
.	.	*TypeOfQuery*	.	.	.		*1*
.	.			.		GetIRInformation	1
.	.	*IncidentSelectionCriteria*		.	.		*0-1*

Elements				Attributes	Occ
		-		Type	1-N
-	-			IncidentID	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
-	-	GeographicCriteria	-	-	0-1
-	-		-	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.	"IMONumber" or "MMSINumber" or "IRNumber_FishingVessel"	"CallSign", "ShipName", "StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt") If "StartDateTime" and "EndDateTime" are not quoted the query provides data related to the last 6 months. The applicable rule is: "EndDateTime"=Now, "StartDateTime"=Now-365 days	Data are provided up to 1 year

2	SpecificTypesIRsOf SelectedShip	Data related to the IRs of a specific type(s) concerning a selected ship (on the basis of the "ShipIdentificationCrit eria" element). The query will provide the full details.	"IMONumber" or "MMSINumber" or "IRNumber_Fishin gVessel" + "Type" ("IncidentSelection Criteria" element)	"CallSign", "ShipName", "StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt")	Data are provided up to 1 year
_				If "StartDateTime" and "EndDateTime" are not quoted the query provides data related to the last year. The applicable rule is: "EndDateTime"=No w, "StartDateTime"=No w-365 days	_
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.	"PortOfDepartureQ uotedInIR" or "PortOfArrivalQuot edInIR" (both are referred to the "IRVoyageInformat ion" in the "MS2SSN_Incident DetailNotification")	"StartDateTime", "EndDateTime" ("StartDateTime" and "EndDateTime" are referred to "SentAt")	Data are provided up to 1 year
_	_	_	_	If "StartDateTime" and "EndDateTime" are not quoted the query provides data related to the last 15 days. The applicable rule is: "EndDateTime"=No w, "StartDateTime"=No w-15 days	_
4	GetSpecificIR	Data related to the specific IR as identified by "IncidenID". The query provides full details	"IncidentID"	none	Data are provided up to 1 year

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:Type 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: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 latest port notification details for 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 default browser-based web interface supplied by SSN.

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
Body				1
	IRQueryCriteria			1
		TypeOfQuery		1
			GetIRInformation	1
		IncidentSelectionCriteria		0-1
			Type	1-N
			IncidentID	1
		ShipIdentificationCriteria		0-1
			IMONumber	0-1
			MMSINumber	0-1
			CallSign	0-1
			ShipName	0-1
			Flag	0-1

Elements								Attributes	Occ
		-		-	-	-	-	IRNumber_FishingVessel	0-1
-	-	*TimePeriodCriteria*			-		-		*0-1*
-	-	-			-	-		StartDateTime	1
-	-	-						EndDateTime	1
-	-	*GeographicCriteria*			-	-		-	*0-1*
-	-	-						PortOfDepartureQuotedInIR	0-1
-	-	-						PortOfDestinationQuotedInIR	0-1
-	*ProvidedIncidentdetails*			-	-	-	-		*1*
	Incidents			-		-	-		*1-∞*
-	-	*IncidentIdentification*		-	-		-		*1*
-	-	-			-			Type	1
-	-	-			-			IncidentID	1
-	-	-			-			ReportSequence	0-1
-		-			*AssociatedIncidentReportList*			-	0-99
-	-	-	-	-	-	-		AssociatedIncidentReport	1
-	-	*IncidentNotificationStatus*				-			*1*
-	-	-						UpdateStatusReason	1
-	-	-			*UpdateSSNRefIdList*				0-99
-	-	-			-			UpdateSSNRefId	1
-	-	*IRRecipientListDetails*		-	-		-		*0-1*
-	-	-						IRDistributionToFlagState	0-1
-	-	-			*IRRecipientList*		-		0-99
-	-	-				-		IRRecipient	1
-	-	*ProvidersOfIncidentReport*		-		-		IRInitialProvider	*1*
-	-	-						IRInitialProvider	1
-	-	-			*IRFeedbackProviderList*		-		0-99
-	-	-		-	-	-		IRFeedbackProvider	1
-	-	*IRVesselIdentificationList*		-	-		-		*0-99*
-	-	-		*IRVesselIdentification*			-		*1*
-	-	-	-	*IRVessel_IdentityVerified*					*0-1*
-	-	-	-	-				IMONumber	0-1
-	-	-	-	-				MMSINumber	0-1

Elements							Attributes	Occ
-	-	-	-	-	-	-	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	1
-	-	-	-	-	-	-	FirstName	1
-	-	-	-	-	-	-	LoCode	0-1
-	-	-	-	-	-	-	Phone	0-1
-	-	-	-	-	-	-	Fax	0-1
-	-	-	-	-	-	-	EMail	1
-	-	-	*ShipPositionAtTheTimeIncident*	-				*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*

Elements								Attributes	Occ
-	-	-	-		-	-	-	GeoCoordinates	0-1
-	-	-	-		-	-	-	- Longitude	1
-	-	-	-		-	-	-	- Latitude	1
-	-	-	-		-	-	Area	-	0-1
-	-	-	-		-	-	-	GeographicalArea	1
-	-	-	-		-	-	BearingDistance		0-1
-	-	-	-		-	-	-	Bearing	1
-	-	-	-		-	-	-	Distance	1
-	-	-	-		-	-	-	Mark	1
-	-	-	AuthorityReportingIncident	-					0-1
-	-	-						SSNUserId	0-1
-	-	-						AuthorityName	0-1
-	-	-						LoCode	1
-	-	-						Phone	1
-	-	-						Fax	1
-	-	-					-	Email	0-1
-	-	-	RequestForActionList		-	-		-	0-99
-	-	-		RequestForActionDetails		-		-	1
-	-	-						MSRequestedToDoAction	1
-	-	-			-	-	-	ActionRequestedDetail	1
-	-	-	IncidentDetailsDocument						0-1
-	-	-		Base64Details	-	-		-	0-1
-	-	-			-			DocType	1
-	-	-			-	-	-	Base64Content	1
-	-	-	IncidentDetails		-	-		-	0-1
-	-	-		WasteAlertIncidentInformation		-		-	0-1
-	-	-		-	NonComplianceInformation				1
-	-	-		-	-			WasteDeliveryDuePort	1
-	-	-		-	-			ETD	1
-	-	-		-	-	-		InspectionReason	1
-	-	-		-	InspectionInformation				0-1
-	-	-		-	-	-		Deficiencies	1
-	-	-		-	-	-		ActionTaken	1
-	-	-		-	-	InspectionAuthority			1

Elements								Attributes	Occ
-	-	-	-		-	-	-	-	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

Elements								Attributes		Occ
-	-	-	-	-	-	-	-	-	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
-	-	-	-	-	-			-	CallSign	0-1
-	-	-	-	-	-			-	P50_ActionTaken	1
-	-	-	-	-	-			-	P51_Photographs	0-1

Elements	Attributes	Occ
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
	P87_ExchangeOfInformation	0-1
	P88_OtherInformation	0-1
	P99_Acknowledge	0-1
LostFoundObjectIncidentInformation		0-1
LostFoundObjectInformation		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-

Elements									Attributes	Occ
										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-□*
-	-	-	-	-	-	-	-		Description	1
-	-	-	-	-	-	-	-	CargoLeaking		0-1
-	-	-	-	-	*Wind*		-		-	*0-1*
-	-	-	-	-	-	-	-		Speed	1
-	-	-	-	-	-	-	-		Direction	1
-	-	-	-	-	*Tide*		-		-	*0-1*
-	-	-	-	-	-	-	-		Speed	1
-	-	-	-	-	-	-	-		Direction	1
-	-	-	-	-	*SeaState*			-		*0-1*
-	-	-	-	-	-	-	-		WaveHeight	1
-	-	-	-	-	-	-	-		Visibility	0-1
-	-	-	-	-	*ObjectDrift*			-		*0-1*
-	-	-	-	-	-	-	-		DriftCourse	1
-	-	-	-	-	-	-	-		DriftSpeed	1
-	-	-	*FailedNotificationtIncidentInformation*							*0-1*
-	-	-	*Description*	-	-	-	-	-		*1*
-	-	-	*<TBD>*	-	-	-	-	-		-
-	-	-	*VTSRulesInfringementIncidentInformation*							*0-1*
-	-	-	*Description*	-	-	-	-	-		*1*
-	-	-	*<TBD>*	-	-	-	-	-		-

Elements								Attributes	Occ
-	-	-	-	*BannedShipIncidentInformation*				-	*0-1*
-	-	-	-		*Description*	-	-	-	*1*
-	-	-	-		*<TBD>*	-	-	-	-
-	-	-	-	*InsuranceFailureIncidentInformation*				-	*0-1*
-	-	-	-		*Description*	-	-	-	*1*
-	-	-	-		*<TBD>*	-	-	-	-
-	-	-	-	*PilotOrPortReportIncidentInformation*				-	*0-1*
-	-	-	-		*Description*	-	-	-	*1*
-	-	-	-		*<TBD>*	-	-	-	-
-	-	-	-	*OtherIncidentInformation*		-	-	-	*0-1*
-	-	-	-		*Description*	-	-	-	*1*
-	-	-	-		*<TBD>*	-	-	-	-
-	-	-	-	*<TBD>*	-	-	-	-	-
-	-	*FeedbackList*		-	-	-	-	-	*0-99*
-	-		*FeedbackInformation*	-	-	-	-	-	*1*
-	-	-		*FeedbackIdentification*	-	-	-	-	*1*
-	-	-			-	-	-	FeedbackID	1
-	-	-		*FeedbackRecipientListDetails*	-	-	-	-	*0-1*
-	-	-			-	-	-	FeedbackDistributionToFlagState	0-1
-	-	-			FeedbackRecipientList	-	-	-	0-99
-	-	-				-	-	FeedbackRecipient	1
-	-	-		*ReportOfAction_Information*	-	-	-	-	*1*
-	-	-			*AuthorityReportidingAction*	-	-	-	*1*
-	-	-				-	-	AuthorityName	1
-	-	-				-	-	LoCode	1
-	-	-				-	-	Phone	1
-	-	-				-	-	Fax	1
-	-	-				-	-	EMail	0-1
-	-	-			*ReportActionDetails*	-	-	-	*0-1*
-	-	-				-	-	Details	1
-	-	-			*ReportActionDocument*	-	-	-	*0-1*
-	-	-				-	-	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.

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**
Type	1	From original MS2SSN_IncidentReport_Req request
IncidentID	1	From original MS2SSN_IncidentReport_Req request
ShipIdentificationCriteria	*0-1*	
IMONumber	0-1	From original MS2SSN_IncidentReport_Req request
MMSINumber	0-1	From original MS2SSN_IncidentReport_Req 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

Item	Occ	Description
ProvidedIncidentdetails	*1*	ProvidedIncidentdetails Node. Not allowed if StatusCode <> OK
IncidentDetails	*1-∞*	IncidentDetails Node
IncidentIdentification	*1*	IncidentIdentification Node
Type	1	none
IncidentID	1	The IncidentId must be unique per national SSN system per type of incident (e.g. after an event such as a collision a SITREP and a POLREP are issued by a MS. *Proposed structure: 2 letter country code + operational number at national level.* The IncidentID replaces also the old attribute "SitrepID"
ReportSequence	0-1	Optional only if UpdateStatusReason="D"
AssociatedIncidentReportList	0-99	**AssociatedIncidentReportList Node**
AssociatedIncidentReport	1	none
IncidentNotificationStatus	*1*	-
UpdateStatusReason	1	The first message shall have the value "N" (New) **The following rules should be considered whenever a message is sent with UpdateStatusReason="U" (Update)**
UpdateSSNRefIdList	0-99	-
UpdateSSNRefId	0-99	Mandatory in case of UpdateStatus="U" (update) or "D" (Delete). Used to identify previous message(s) that include information thay is to be updated/deleted.
IRDistributionDetails	***0-1***	**DistributionDetails 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
IRRecipientList	0-99	**List of recipients Element Node**
IRRecipient	1	Mandatory in case IRDistributionToFlagState not provided
ProvidersOfIncidentReport	1	**Providers Element Node**
IRInitialProvider	1	The "AuthorityName" of the IR initial provider.
IRFeedbackProviderList	0-99	**Feedback Providers Element Node**
IRFeedbackProvider	1	The "AuthorityName" of the IR feedback provider

Item	Occ	Description
IRVesselIdentificationList	**_0-99_**	**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** **- ResultInspection** **- InsuranceFailure** **- PilotOrPortReport**
IRVesselIdentification	**_1_**	-
_IRVessel_IdentityVerified_	**_0-1_**	-
IMONumber	0-1	Mandatory if MMSINumber or IRNumber_FishingVessel not given.
MMSINumber	0-1	Mandatory if IMONumber or IRNumber_FishingVessel not given.
CallSign	0-1	none
ShipName	0-1	none
Flag	0-1	none
IRNumber_FishingVessel	0-1	Mandatory if IMONumber or MMSINumber not given.
_IRVessel_IdentityNotFullyVerified_	**_0-1_**	**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
IRVoyageInformation	**_0-1_**	**VoyageInformation element node.**
PortofDeparture	0-1	none
PortOfDestination	0-1	none
TotalPersonsOnBoard	0-1	none
CargoManifest	**_0-1_**	**CargoManifest element node**
UrlDetails	**_0-1_**	**UrlDetails element node. Mandatory if ContactDetails not provided**
Url	1	The Url must start with https://
DocType	1	Extensions are case insensitive
ContactDetails	**_0-1_**	**ContactDetails element node. Mandatory if UrlDetails not provided.**
LastName	1	none
FirstName	1	none
LoCode	0-1	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

Item	Occ	Description
		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	1	Email address of the contact person.
ShipPositionAtTheTimeIncident	**_0-1_**	**ShipPositionAtTheTimeIncident element node.** **Mandatory for Incident type SITREP with vessel identified**
GeoCoordinates	**_0-1_**	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	**_0-1_**	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	**_0-1_**	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none
ShipPositionAtTimeOfReporting	**_0-1_**	**ShipPositionAtTimeOfReporting element node. Not required if the position is the same as ShipPositionAtTheTimeIncident**
GeoCoordinates	**_0-1_**	**GeoCoordinates element node. Mandatory if Area or BearingDistance not provided**
Longitude	1	none
Latitude	1	none
Area	**_0-1_**	**Area element node. Mandatory if GeoCoordinates or BearingDistance not provided**
GeographicalArea	1	none
BearingDistance	**_0-1_**	**BearingDistance element node. Mandatory if Area or GeoCoordinates not provided**
Bearing	1	Indicated in the 360 degrees notation from true north and shall be that of the position from the mark
Distance	1	Indicated in nautical miles.
Mark	1	none

Item	Occ	Description
AuthorityReportingIncident	**0-1**	**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 Authorityname, LoCode, Pohone, Fax and Email attributes.**
SSNUserID	0-1	none
AuthorityName	0-1	none
LoCode	0-1	Location code of the contact person. Can be any LOCODE listed in the UNECE LOCODE list (i.e. not only LOCODES of ports) or any LOCODE listed in the SSN specific LOCODE list of EMSA
Phone	0-1	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.
RequestForActionList	**0-99**	**RequestForActionList element node.**
RequestForActionDetails	**1**	**RequestForActionDetail element node.**
MSRequestedToDoAction	1	Country to which a request for actions is send.
ActionRequestedDetail	1	Content of the action requested to the recipient MS
IncidentDetailsDocument	**0-1**	**IncidentDetailsDocument element node.**
Base64Details	**0-1**	***Base64Details* element. Mandatory when the *data provider* can only provide incident details as downloadable files**
DocType	1	Extensions are case insensitive
Base64Content	1	Base64-encoded characters of the notification details downloaded by SafeSeaNet.
IncidentDetails	**0-1**	**IncidentDetails element node. Not allowed if StatusCode <> OK**
WasteIncidentInformation	**0-1**	WasteAlertInformation element node (if incident type = Waste). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
...	**-**	From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
SITREPIncidentInformation	**0-1**	SITREPAlertInformation element node (if incident type = SITREP). 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)
POLREPIncidentInformation	**0-1**	POLREPAlertInformation element node (if incident type = POLREP). 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)

Item	Occ	Description
LostFoundObjectIncidentInformation	*0-1*	LostFoundContainersAlertInformation element node (if incident type = LostFoundContainers). 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)
FailedNotificationtIncidentInformation	*0-1*	FailedNotificationIncidentInformation element node (if incident type = FailedNotificationIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-	*-*	From incoming MS2SSN_IncidentDetail_Not (if any)
VTSRulesInfringementIncidentInformation	*0-1*	VTSRulesInfringementIncidentInformation element node (if incident type = VTSRulesInfringementIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-	*-*	From incoming MS2SSN_IncidentDetail_Not (if any)
BannedShipIncidentInformation	*0-1*	BannedShipIncidentInformation element node (if incident type = BannedShipIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
-	*-*	From incoming MS2SSN_IncidentDetail_Not (if any)
InsuranceFailureIncidentInformation	*0-1*	InsuranceFailureIncidentInformation element node (if incident type = InsuranceFailureIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
...	*-*	From incoming MS2SSN_IncidentDetail_Not (if any)
PilotOrPortReportIncidentInformation	*0-1*	PilotOrPortReportIncidentInformation element node (if incident type = PilotOrPortReportIncidentInformation). From incoming MS2SSN_IncidentDetail_Not (if any)
...	*-*	From incoming MS2SSN_IncidentDetail_Not (if any)
OtherIncidentInformation	*0-1*	OtherIncidentInformation element node (if incident type =OtherIncidentInformation or Others). From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)
...	*-*	From incoming MS2SSN_IncidentDetail_Not or MS2SSN_Alert_Res.xml response (if any)

Example

```xml
<?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:Type 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:Incidentdetails>
          <ssn:IncidentIdentification IncidentID="IncId01" Type="Waste" />
          <ssn:IncidentNotificationStatus UpdateStatusReason="N" />
          <ssn:IRRecipientListDetails IRDistributionToFlagState="GR" />
          <ssn:ProvidersOfIncidentReport IRInitialProvider="GR POR AUTH" />
        - <ssn:IRVesselIdentificationList>
          - <ssn:IRVesselIdentification>
              <ssn:IRVessel_IdentityVerified CallSign="HMDOO" 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:ShipPositionAtTheTimeIncident>
                <ssn:Area GeographicalArea="North Aegean" />
              </ssn:ShipPositionAtTheTimeIncident>
            </ssn:IRVesselIdentification>
          </ssn:IRVesselIdentificationList>
          <ssn:AuthorityReportingIncident AuthorityName="GR POR AUTH" Fax="2101234567" LoCode="GRPIR" Phone="2101234567" />
        - <ssn:IncidentDetails>
            <ssn:OtherIncidentInformation Description="incidentDescription" />
          </ssn:IncidentDetails>
        </ssn:Incidentdetails>
      </ssn:ProvidedIncidentdetails>
    </ssn:Body>
  </ssn:SSN2MS_IncidentReport_Res>
```

Annex A

Description	List of most significant inconsistencies between the XSD schema and SSN XML messaging reference guide v1.65.

XML Message	Description
1. MS2SSN_Alert_Not.xml and MS2SSN_Alert_Req.xml > Waste and ContactIdentification	What is the meaning of a Waste Notification for a non-identified vessel?
2. MS2SSN_Alert_Req.xml > Body > SearchCriteria	Questions: • SentAt: how is it possible for a data requester to know the exact date and time of the notification. • From: how is it possible for a data requester to know the SSN user id of the data provider?
3. MS2SSN_Alert_Res.xml > Body > IncidentDetails > WasteAlertInformation > InspectionInformation	Define the length of the attributes. What is the unit of measurement for "Coordinates"?
4. MS2SSN_Alert_Res.xml > Body > IncidentDetails > SITREPAlertInformation > SITREPInformation	Define the length of the attributes. Also the CargoManifest > UrlDetails > Url: a) size must be extended to 256. b) CargoManifest must be optional in the ssn.xsd: Occ = 0..1 (optional) c) The SSN2MS_Alert_Res message by definition contains the exact elements of the MS2SSN_Alert_Res per incident type. This means that the UrlDetails will be provided and not the Base64Contents. Also SITREPInformation > A_CasualtyIdentification is mandatory, with the information Name, Callsign and Flag required. It seems difficult to have A_CasualtyIdentification when the vessel identification information is not there. If the ship is identified, are the A_CasualtyIdentification details CallSign and ShipName identical to those under VesselIdentification? If yes what is the purpose of the A_CasualtyIdentification element?
5. MS2SSN_Alert_Res.xml > Body > IncidentDetails > POLREPAlertInformation > POLREPInformation	Define the length of the attributes. Also CargoManifest > UrlDetails > Url size must be extended to 256.The SSN2MS_Alert_Res message by definition contains the exact elements of the MS2SSN_Alert_Res per incident type. This means that the UrlDetails will be provided and not the Base64Contents. Also POLREPInformation > POLWARN > P1_DateTime the Type in the XMLRG must be dateTime as in ssn.xsd. Also POLREPInformation > POLINF > P40_DateTime the Type in the XMLRG and ssn.xsd must be dateTime. Also POLREPInformation > POLINF > P49_ObserverIdentity the occasion in the XMLRG is 1-99 but in the ssn.xsd is 1-infinity. Also POLREPInformation > POLINF > P52_InformedStateOrg the

XML Message	Description
	occasion in the XMLRG is 0-99 but in the ssn.xsd is 0-infinity.
	Also POLREPInformation > POLFAC > P80_DateTime the Type in the XMLRG and ssn.xsd must be dateTime.
	Also POLREPInformation > POLFAC > P85_InformedStateOrg the occasion in the XMLRG is 0-99 but in the ssn.xsd is 0-infinity.
6. MS2SSN_Alert_Res.xml > Body > IncidentDetails > LostFoundContainersAlertInformation > LostFoundContainersInformation	Define the length of the attributes.
	Also CargoManifest > UrlDetails > Url size must be extended to 256. The SSN2MS_Alert_Res message by definition contains the exact elements of the MS2SSN_Alert_Res per incident type. This means that the UrlDetails will be provided and not the Base64Contents.
	Also in the ssn.xsd the CargoLeaking appears twise: a) under ContainerInformation (correct) and b) under LostFoundContainersInformation (false must be removed).
	Also ContainerInformation > P5_TypeOfGoods is of Enum type and must be defined as such in the ssm.xsd.
	Also ContainerInformation > Containers the occasion in the XMLRG is 1-99 but in the ssn.xsd is 1-infinity.
	Also ContainerInformation > Containers > Description in the XMLRG the Occ = 1 but in the ssn.xsd Occ = 0..1
7. MS2SSN_Alert_Res.xml > Body > IncidentDetails > OtherAlertInformation > OtherInformation	Define the length of the attribute "Details".
	Also CargoManifest > UrlDetails > Url the size must be extended to 256. The SSN2MS_Alert_Res message by definition contains the exact elements of the MS2SSN_Alert_Res per incident type. This means that the UrlDetails will be provided and not the Base64Contents.
8. MS2SSN_Alert_Res.xml > SITREPAlertInformation	VoyageInformation is mandatory Occ=1. In the XSD the VoyageInformation is also mandatory. However, VoyageInformation must be optional Occ=0..1.
9. MS2SSN_Alert_Res.xml > POLREPAlertInformation	VoyageInformation is optional with Occ=0..1 But in the XSD the VoyageInformation is mandatory. VoyageInformation must be optional Occ=0..1.

Annex AB

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.

Type   This table 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
Date	Date as '*YYYY-MM-DD*'
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.
UUID	Universal unique identifier.

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
ActionRequestedDetail	Text	1-256	Content of the action requested to the recipient MS	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_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		Either Y or N	MS2SSN_Ship_Res
AssociatedIncidentReport	Text	1-20	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	1-50	Name of the reporting Authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
Base64Content	base64		Base64-encoded characters of the notification details downloaded by SafeSeaNet.	SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_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
CallSign	Text	0-7	Call sign of the vessel	~~MS2SSN_Port_Not~~ MS2SSN_Ship_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				~~MS2SSN_Hazmat_Not~~ MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not SSN2MS_Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_Security_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not 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
ConditionCargoBallastTanks	Text	0-256	Free text entry identifying the condition of the cargo and ballast tanks (e.g. full, empty, inerted etc.)	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
Chars	Text		Free text entry. Bunker characteristics	MS2SSN_Ship_Res SSN2MS_Ship_Res
COG	Int		Course over ground in 1/10° (0-3599; 3600 = not available = default; 3601-4095 = should not be used). Lower value: 0; Upper value: 3600.	MS2SSN_Ship_Res SSN2MS_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
Coordinates	Text	1-256	Co-ordinates of the inspection authority (phone, fax and/or email)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
CurrentSecLevel	Text		Current security level.	MS2SSN_Security_Res SSN2MS_ Security_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 line with other persons on board fields.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_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
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
Direction	Text	1-20	Indicates wind direction in degrees.	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
Distance	Text	1-20	Indicates distancein 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_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
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 SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DGClassification	ENUM		Attribute contains the information in which IMO Code(s) DG must be declared Values: "**IMDG**", "**IGC**", "**IBC**", "**MARPOL_ANNEX1**", "**BC**", "**INF**"	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
DocType	ENUM		Type of document format among the following possible values: DocType: **DOC** -> Extensions allowed: MS WORD 97 or subsequent versions (e.g. DOC, DOCX,DOT, RTF, etc) DocType: **HTML** -> Extensions allowed: HTM, HTML DocType: **PDF** -> Extensions allowed: PDF DocType: **TXT** -> Extensions allowed: TXT DocType: **XML** -> Extensions allowed: XML DocType: **XLS** -> Extensions allowed: MS EXCEL 97 or subsequent versions (e.g. XLS, , etc)	MS2SSN_Ship_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res SSN2MS_Alert_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
DriftCourse	Text	1-20	Indicates the drift course of pollution in degrees	MS2SSN_Alert_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res SSN2MS_Alert_Res SSN2MS_ShipCall_Res
EndDateTime	DT		Ending point of a time window declared to define a query	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
ETA	DT		Date and time of the estimated time of arrival at Next Port of Call	~~MS2SSN_Port_Not~~ MS2SSN_Ship_Not ~~MS2SSN_Hazmat_Not~~ SSN2MS_Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res
ETAToNextPort	DT		Date and time of estimated time of arrival to the subsequent port of call.	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				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_Port_Not~~ ~~MS2SSN_Hazmat_Not~~ SSN2MS_Port_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res 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_Port_Not~~ ~~MS2SSN_Hazmat_Not~~ MS2SSN_PortPlus_Not SSN2MS_Port_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res SSN2MS_ShipCall_Res
ETDFromPortOfCall	DT		Date and time of the estimated time of departure from port of call	~~MS2SSN_Port_Not~~ ~~MS2SSN_Hazmat_Not~~ MS2SSN_PortPlus_Not SSN2MS_Port_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res SSN2MS_ShipCall_Res
F_CoordinatingAuthority	Text	1-80	Name of coordinating Authority	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
F_CoordinatingRCC	Text	1-~~8~~20	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_Hazmat_Not~~ MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
FeedbackID	Text	1-20	Unique identifier of feedback	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FeedbackRecipient	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FeedbackDistributionToFlagState	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
FirstName	Text	0-50	First name of the contact person	MS2SSN_Ship_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx 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_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
From	Text	3-15	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 1	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 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	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
GetHazmatType	ENUM		Used to specify which HAZMAT details SSN is asking for and that should be quoted in the response by the data	SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			provider. Possible values: -**HazmatTowardsPortOfCall** -**HazmatTowardsNextPort**	
GetIRInformation	ENUM		Possible values: - AllIRsOfSelectedShip - SpecificTypesIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR	MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
GrossQuantity	Text	1-18	Gross weight of the dangerous goods including respectively their packing, but without the equipment used by the carrier for their transport.	MS2MS_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
H_WeatherOnScene	Text	1-2~~0~~56	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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Tx SSN2MS_IncidentReport_Res
IMOClass	Text	1-7	IMO class of DG	MS2SSN_Ship_Res SSN2MS_Ship_Res
IMOHazardClass	Text	1-7	IMO Hazard class (IMDG-IBC-IGC codes) of DPG	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IMONumber	Text	7	IMO number – IMO Res A.600 (15)	ALL messages except from SSN_Receipt
INFShipClass	ENUM Enum		Code for the license of the vessel according to the INF Code (Code for the Safe Carriage of Irradiated Nuclear Fuel, Plutonium and High-level Radioactive Wastes in Flasks on board Ships). Possible values are: ▪ **INF1 (Class INF 1)** ▪ **INF2 (Class INF 2)** ▪ **INF3 (Class INF3)**	MS2SSN_PortPlus_Not MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
IncidentID	Text	1-20	Proposed format: LOCODE (of reporting Authority) + 15 characters	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
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
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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
IRDistributionToFlagState	Textst	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
IRFeedbackProvider	Text	1-50	Defines the "AuthorityName" of the IR feedback provider.	MS2SSN_IncidentDetail_Req SSN2MS_IncidentDetail_Res
IRInitialProvider	Text	1-50	Defines the "AuthorityName" of the IR initial provider.	MS2SSN_IncidentDetail_Req SSN2MS_IncidentDetail_Res
IRNumber_FishingVessel	Text	12	EU fishing vessel Registration number (CFR field)	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
IRRecipient	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
IssuingAuthority	Text	1-50	Free text entry.	MS2SSN_Security_Res SSN2MS_ Security _Res
J_InitialActionsTaken	Text	1-2560	Initial actions taken by casualty and RCC	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
K_SearchArea	Text	1-820	Search area as planned by RCC	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
L_CoordinatingInstructions	Text	1-2560	OSC designated, units participating, communications	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
LastName	Text	0-50	Last name of the contact person	MS2SSN_Ship_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
LastPort	Text	0-5	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
Latitude	Int		Latitude in 1/10000 min. (+/- 90 degrees; North = positive; South = negative; 91 = not available) 91° (north) -> 54600000 -90° (south) -> -54000000 0°0'1'' (north) -> 167 50°50' (north) -> 30500000	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
LengthAndBeam	Text	1-36	Length and beam	MS2SSN_Ship_Res SSN2MS_Ship_Res
LocationOnBoardContainer	Text		Location of container which contains the dangerous good on board of ship. The following formats for Stowage cells are recommended: ▪ If container vessels as per ISO standard: Bay/Row/Tier in format: *BBBRRTT*. 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: *HHHTTRR*. If hatch number is less than 3 characters it must be filled with leading zeroes.	MS2SSN_Hazmat_Res SSN2MS_Hamzat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included

			▪ If ro-ro vessels: Deck/Bay/Row/Tier in format: *DDBBBRRTT*
			
			▪ If general cargo vessels: 3 to 9 characters, format:
			
			   ▪ 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:
			
			      ○ 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. hatchcovers.	

LocationOnBoardGoods	Text	1-25	The following formats for Stowage cells are recommended: ▪ If container vessels as per ISO standard: Bay/Row/Tier in format: *BBBRRTT*. 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: *HHHTTRR*. 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: *DDBBBRRTT* ▪ If general cargo vessels: 3 to 9 characters, format: ▪ firstly 3 characters (mandatory) for the cell number (01, 02, etc. with a further indication: S (starboard), P (Portside) of C (Centre));	MS2SSN_Hazmat_Res SSN2MS_Hamzat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included

			▪ secondly 3 characters (optional) for the indication of the deck level:
			
			  o WED = weather deck
			
			  o TD9 = tween deck 9
			
			  o …
			
			  o TD1 = tween deck 1
			
			  o LOH = lower hold
			
			▪ thirdly 3 characters (optional) for a further indication within a hold, e.g. hatchcovers.
			
			▪ If tanker vessel: tank number.	

LoCode	Text	5	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_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			4°20' (east) -> 2600000	SSN2MS_IncidentDetail_Res
M_FuturePlans	Text	1-2560	Free text entry.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
Maintenance	Text	1-256	Free text entry.	MS2SSN_Security_Res SSN2MS_Security_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 entrace to the port of Lisbon)	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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.
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_Port_Not MS2SSN_Ship_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Port_Req SSN2MS_Port_Res MS2SSN_Ship_Req MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Req MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ Security _Req

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_ Security _Res SSN2MS_Security_Res MS2SSN_Alert_Req MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Not
MSRequestedToDoAction	Text	2	Alpha-2 (two-digits) in accordance with standard ISO 3166-1	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
N_AdditionalInformation	Text	1-256	Include time SAR operation terminated	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
Nature	ENUM		Nature of distress/urgency. Possible values are: - Fire - Collision - Medico* - Grounding - Flooding - List - Capsizing - EngineFailure	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res

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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			- 7 (engaged in fishing)	
			- 8 (under way sailing)	
			- 9 till 14 (reserved -> should not be used)	
			- 15 (not defined)	
NetQuantity	Text	1-18	Net weight of the dangerous goods excluding respectively their packing, and without the equipment used by the carrier for their transport.	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
NextPort	Text	0-5	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_Port_Not~~ MS2SSN_Ship_Not ~~MS2SSN_Hazmat_Not~~ SSN2MS _Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
OtherAuthorities	Text	1-80	Other Authorities notified	MS2SSN_Alert_Res SSN2MS_Alert_Res
Other	Text	1-50	Free text entry. Any other ship observer identification.	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
Others	Text	1-256	Free text entry. Other practical security related information	MS2SSN_Security_Res SSN2MS_Security_Res
P1_DateTime	~~Text~~DT	~~1-20~~	~~The~~Date and time ~~day of the month as well as the time of the day~~ when the incident took place or, if the cause of the	MS2SSN_Alert_Res SSN2MS_Alert_Res

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Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			pollution is not known, the time of the observation. ~~should be stated with 6 numbers. Time should be stated as GMT, for example 091900z (i.e. the 9th of the relevant month at 1900 GMT).~~ If local time is used MS application has to adjust the time to UTC.	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P1_ReportType	ENUM		Supported report type. Possible values are: - Loss - Observation A. Loss (ship having lost a or several containers/packaged goods) B. Observation (ship noting the presence of containers/packages goods drifting at sea)	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P3_Incident	Text	1-256	Incident summary	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P4_NumberOfContainers	Int		Number of containers	MS2SSN_Alert_Res SSN2MS_Alert_Res
P4_NumberOfObjects	Int		Number of objects	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P4_Outflow	Text	1-~~80~~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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P40_DateTime	~~Text~~DT	~~1-20~~	~~Time should be stated as GMT, for example 091900z (i.e. the 9th of the relevant month at 1900 GMT).~~Date and time. 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.	MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P41_PollutionPosition	Text	1-20256	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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P48_PollutionEffectForecast	Text	1-80256	Results of mathematical models could indicate eg. arrival on beach with estimated timing	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
P5_TypeOfGoods	ENUM		DG/PG : Y/N IMO/UN/IMDG Code Number	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P50_ActionTaken	Text	1-~~20~~256	Mentions action taken for the disposal of the pollution	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P51_Photographs	Text	1-~~80~~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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P53_OtherInformation	Text	1-~~20~~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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P80_DateTime	~~Text~~DT	~~1-20~~	~~Time should be stated as GMT, for example 091900z (i.e. the 9th of the relevant month at 1900 GMT).~~ 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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P81_RequestForAssistance	Text	1-256	Type and amount of assistance required in form of: - specified equipment - specified equipment with trained personnel - complete strike teams - personnel with special expertise	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			with indication of country requested	
P82_Cost	Text	1-20256	Information on cost of delivered assistance to be notified to requesting country.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P83_PreArrangements	Text	1-80256	Information concerning customs clearance, access to territorial waters in the requesting country.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
P88_OtherInformation	Text	1-20256	Spare for any other relevant requirements or instructions.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_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

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
Phone	Text	1-20	Phone number (country code included) of the contact person.	MS2SSN_Ship_Not MS2SSN_Hazmat_Not MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res SSN2MS_Ship_Res SSN2MS_Hazmat_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PlannedOperations	Text	0-256	Free text in English language describing the planned operations at the port or anchorage (loading, unloading, other)	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
PlannedWorks	Text	0-256	Free text in English language describing the planned statutory survey inspections and substantial maintenance and repair work to be carried out whilst in the port or anchorage of destination	MS2SSN_PortPlus_Not SSN2MS_ShipCall_Res
PoBasinHazmatNotification	Int		Total number of persons aboard. The value 0 (Zero) is not allowed. Note that the type "INT" prohibits the use of dots and commas	MS2SSN_ShipCall_Res 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 MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
POBVoyageTowardsPortOfCall	Int		Total number of persons aboard. To be used for notification(s) made along the voyage toward the PortOfCall. 99999 if actually unknown. The value 0 (Zero) is not allowed. Note that the type "INT" prohibits the use of dots and commas	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
PortOfCall	Text	5	This attribute indicates the **actual** port of call, e.g. if the port of Oostende is sending this notification, then this PortOfCall attribute must be the location code of Oostende (BEOST) and not the next port of call after Oostende. The "port of call" attribute cannot be unknown ("ZZUKN"). The "port of call" attribute must only be the LOCODE of the specific port of call or its dependent port's LOCODE	MS2SSN_PortPlus_Not MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
PortOfDeparture	Text	5	Location code of port of departure.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
PortOfDepartureQuotedInIR	Text	5	Location code of port of departure quoted in an incident report.	MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Res
PortOfDestination	Text	5	Location code of port of destination.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
PortOfDestinationQuotedInIR	Text	5	Location code of port of destination quoted in an incident report.	MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Res
PositionInPortOfCall	Text	0-15	Any 15 character free text value will be accepted. However M.S are encouraged to utilise a 15 characters (subsidiary) LOCODE identifying the position of a subsidiary location within the port or port approaches (e.g. a terminal in the port, a berth, an anchorage site, Fairway section code, Fairway section hectometer etc). The subsidiary LOCODES will be maintained within the SSN EIS LOCODE registry for subsidiary locations The structure of the subsidiary LOCODE should follow the structure agreed by M.S. during the SSN7 workshop | Element	Length		MS2SSN_PortPlus_Not MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Fairway section number `0-5` Terminal code `0-5` Fairway hectometer `0-5` 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 reference registry of SSN	
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
PreviousPortSecLevel	Text		Free text entry. Security level in previous port	MS2SSN_Security_Res SSN2MS_ Security _Res
Quantity	Text	1-18	Free text entry. Indicating Quantity.	MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res
ReportSequence	Int		To indicate the nature of message and completeness of sequence of SITREPs concerning the casualty. Indicates the sequence of updates related to the same IncidentID e.g 1 then 2 and 3	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
ReportingDateAndTime	DT		Date and Time of reporting. This time stamp corresponds also to the given position.	MS2SSN_Ship_Res SSN2MS_Ship_Res
ROT	Int		Rate of Turn. Possible values are: • 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	MS2SSN_Ship_Res SSN2MS_Ship_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			higher) • +127 (turning right at > 5°/30s) • -127 (turning left at > 5°/30s) • -128 (no turn info available)	
RoutePlan	Text		Free text entry indicating the Route Plan	MS2SSN_Ship_Res SSN2MS_Ship_Res
SecurityMeasures	Text		Special/Additional security measures	MS2SSN_Security_Res SSN2MS_ Security _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. Thus, the ShipCallId included in further updates of the initial notification should be the same in all the notifications relevant to the same ship call and UNIQUE as far as a ship call is concerned.	MS2SSN_PortPlus_Not 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 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_Port_Not~~ MS2SSN_Ship_Not ~~MS2SSN_Hazmat_Not~~ MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not SSN2MS_Port_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_Security_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Req MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
ShipType	ENUM		One of the following possible values: - 0 (not available or no ship) - 1-99 - 100-199 (preserved for regional use) - 200-255 (preserved for future use)	MS2SSN_Ship_Res SSN2MS_Ship_Res
SITREPId	Text	1-30~~205~~	To indicate the nature of message and completeness of sequence of SITREPs concerning the casualty. Only for SITREPs and for backward compatibility reasons when this attribute will concatenate the "IncidentID" with the "ReportSequence".	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
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 MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
SSNRefId	UUID	1-36	Reference number given by the SafeSeaNet. It must be inserted later by the national SSN systemin the SSNRefID attribute of the MS2SSN_<SSN_Tx_type>_Res.xml response	SSN2MS_Port_Res SSN2MS_Ship_Req SSN2MS_Ship_Res

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Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			and will be used for correlation when SafeSeaNet will receive the response from national SSN system	SSN2MS_Hazmat_Req SSN2MS_Hazmat_Res SSN2MS_Security_Req SSN2MS_Security_Res SSN2MS_Alert_Req SSN2MS_Alert_Res SSN2MS_ShipCall_Res MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
SSNUserID	Text	3-15	The SSN unique user Identifier.	MS2SSN_IncidentDetail_Not SSN2MS_IncidentDetail_Res
StartDateTime	DT		Starting point of a time window declared to define a query	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
StatusCode	Enum		Global status code. See "Validation of the XML messages" section for possible values	SSN_Receipt SSN2MS_Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_Security_Res SSN2MS_Security_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
StatusMessage	Text	0-255	Global status message string	SSN_Receipt SSN2MS_Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_Security_Res SSN2MS_Security_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
TechnicalName	Text	1-350	Technical name of DPG. *Note: this term may mean the "proper shipping name" or the "product name" or the "technical name" depending on the code used (IMDG, IBC or IGC).*	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res 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_Port_Req MS2SSN_Ship_Req SSN2MS_Ship_Req MS2SSN_Hazmat_Req SSN2MS_Hazmat_Req MS2SSN_Security_Req SSN2MS_Security_Req MS2SSN_Alert_Req SSN2MS_Alert_Req MS2SSN_ShipCall_Req SSN2MS_ShipCall_Req
Timestamp	DT		Date and time of the ship position reporting.	MS2SSN_Ship_Not MS2SSN_Ship_Res SSN2MS_Ship_Res
To	Text	3-15	The reference identification of the recipient of the message ('SSN')	All messages
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_Port_Not~~ MS2SSN_Ship_Not ~~MS2SSN_Hazmat_Not~~ SSN2MS_Port_Res MS2SSN_Ship_Res SSN2MS_Ship_Res MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
TransUnitId	Text	1-17	Identification number of cargo transport unit (if no tanks)	MS2SSN_Hazmat_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
				SSN2MS_Hazmat_Res 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 MS2SSN_IncidentDetail_Tx MS2SSN_IncidentReport_Req SSN2MS_IncidentDetail_Res
UnitOfMeasurementGross	Enum		Indication of the unit of measurement in which the weight (mas) is expressed. Possible values are: ▪ **KGM** (kilogram) ▪ **TNE** (Metric tonne)	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
UnitOfMeasurementNet	Enum		Indication of the unit of measurement in which the weight (mas) is expressed. Possible values are: ▪ **KGM** (kilogram) ▪ **TNE** (Metric tonne)	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
UNNumber	Text	4	UN number of DPG. Please use 'NONE' if UN number not existing.	MS2SSN_Hazmat_Res SSN2MS_Hazmat_Res MS2SSN_ShipCall_Res SSN2MS_ShipCall_Res
UpdateMSRefId	Text	1-36	A reference number identifying the MSRefId of the	MS2SSN_PortPlus_Not

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			notification(s) that is to be updated	
UpdateStatus	ENUM		Potential values: 1. **N** for a new notification 2. **U** for an updating notification related to a previous one identified by the UpdateMSRefID attribute.. Possible cases: Case: **UpdateStatus=N** In this case UdateMSRefId should be omitted Case: **UpdateStatus=U** In this case UpdateMSRefId=MSRefId of affected msg (s)	MS2SSN_PortPlus_Not
UpdateSSNRefId	UUID	1-36	A reference number identifying the SSNRefId of the notification(s) that is to be updated	MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx
UpdateStatusReason	ENUM		Potential values: - N for a new Incident Report - U for an updating Incident Report related to a previous one identified by UpdateMSRefID attribute - D to delete an Incident Report previously sent in case of error, identified by UpdateMSRefID attribute - F for providing a feedback on a previously sent incident (sent by another MS or authority at MS level)	MS2SSN_IncidentDetail_Not
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_Port_Not~~ MS2SSN_Ship_Not ~~MS2SSN_Hazmat_Not~~ MS2SSN_Security_Not MS2SSN_Alert_Not MS2SSN_PortPlus_Not MS2SSN_Ship_Res MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
Url	Uri	20-256	Provides a surrogated URL located at central SSN server masking the original URL provided in the PortPlus	SSN2MS_ShipCall_Res

Attribute name	Type	Len	Description and general rules	Message(s) that the attribute is included
			Notification of the *data provider*. The *data requestor* system may utilise this URLto communicate (in 2-way SSL) with the central SSN system and download the document with the Hazmat details.	
ValidCertificate	ENUM		Y or N	MS2SSN_Security_Res SSN2MS_Security_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 MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
WasteDeliveryDuePort	Text	5	Location code of the port where waste-delivery was due.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res
WaveHeight	Text	1-20	Indicates the wave height in metres.	MS2SSN_Alert_Res SSN2MS_Alert_Res MS2SSN_IncidentDetail_Not MS2SSN_IncidentDetail_Tx SSN2MS_IncidentDetail_Res

Annex B~~C~~

Description   List of the changes from previous XML Reference Guide versions

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
28	Description of the "Send Notifications" process	Remove v1 Port and Hazmat Notifictaions			Phase out of v1 Port and Hazmat Notifictaions
37	Description of the "Information Requests" process	Update text after removing v1 Port and Hazmat notifications			Phase out of v1 Port and Hazmat Notifictaions
41	Section 3.5 - Send IncidentDetail Notifications	Define new process			Improve the IR distribution
67	MS2SSN_Port_Not	Removed			Phase out of v1 Port and Hazmat Notifictaions
78	MS2SSN_Hazmat_Not	Removed			Phase out of v1 Port and Hazmat Notifictaions
30	Voyage correlation business Rules	Define the applicable business rules			Voyage consolidation process
104	Section 3.5 - Send IncidentDetail Notifications	Introduce the new IR Notification, Distribution and Acknowledgement messages	25-06-2012		Improve the IR distribution
202	MS2SSN_Alert_Res	Corrected the occasion of elements and attributes			Correct the inconsistencies identified in the Alert response messages Annex A
262	Section 3.6 - Get Incident Report Notification Details	Introduce the new IR Request and response messages			Improve the IR distribution
278	Annex A	Resolve the annex listing the Alert response message inconsistencies.			Resolve Alert message definition inconsistencies.

| 280 | 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 ammended.		To be consistent with XMLRG v2 onwards	Apply corrections.
316	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.
10	SSN Global Architecture	Corrected illustration		2-way SSL and SOAP messages	Update implementation constraints
21	SafeSeaNet Functional Services Overview	Introduction of GI	23-04-2010	Introduce the new interface for data visualization	Upgrade system functionality
25, 43, 61	Data Provider capabilities	Masking of Url		Enforcement of 2-way SSL when requesting for electronic documents.	Update implementation constraints
37,147, 171	Description of the "Information Requests" process	Clarifications on the Port and Hazmat requests		Clarify the contents of these requests	Apply business rule
54	Status Codes and Status Messages	Update the descriptionof the OK StatusCode		Provide a complete list of warnings	Update the list of warnings
-	All messages	Correct typo errors for attributes: Url, EMail		Allign typos with the xsd	Apply correction

89	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
224	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
245, 280	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.		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)	23-04-2010	Clarification of the introduction wording	Apply correction.
93, 94, 103	MS2SSN_PortPlus_Not	Attribute INFShipClass added (after HazmatOnBoardYorN)		New attribute added.	Attribute added, business rules and updated examples.

94	MS2SSN_PortPlus_Not	Corrected attribute's (UpdateStatus) description .	The example was misleading.	Apply corrections.
96	MS2SSN_PortPlus_Not		Enforce business rule with reject criteria.	
97	MS2SSN_PortPlus_Not	Text added.	To give more flexibility in managing subsidiary LOCODEs	Apply changes.
98	MS2SSN_PortPlus_Not	Updated ATAPortOfCall description	To enforce validation rule	Apply business rule
98	MS2SSN_PortPlus_Not	Updated ATDPortOfCall description	To enforce validation rule	Apply business rule
99	MS2SSN_PortPlus_Not	POBVoyageTowardsPortOfCall attribute's name corrected.	Correction of the attribute's name	Apply correction
186	MS2SSN_ShipCall_Req	Text changed Changed information expected to be included in the response message	Text changed Correct query's definition	Apply corrections.
187,188,189	MS2SSN_ShipCall_Req	Text changed Changed information expected to be included in the response message	Correct query's definition	Apply corrections.
191	MS2SSN_ShipCall_Req	LatestCallInfoAtSpecificPort query added.	New query added.	Apply correction.
194	SSN2MS_ShipCall_Req	New optional attribute (GetHazmatType) added	New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
195	SSN2MS_ShipCall_Req	New attribute business rules added.	Business rule for the new attribute added.	Business rule added.
197	MS2SSN_ShipCall_Res	New optional attribute (GetHazmatType) added	New attribute added to ensure asking the relevant HAZMAT details to the data provider	Element added.
199	MS2SSN_ShipCall_Res	New attribute business rules added.	Business rule for the new attribute added.	Business rule added.
195,197	MS2SSN_ShipCall_Res	Header attribute (TimeOutValue) removed.	Delete the attribute which was reported due to a typing error	Apply corrections.
202	SSN2MS_ShipCall_Res			
203 , 208	SSN2MS_ShipCall_Res	POBVoyageTowardsPortOfCall attribute's name corrected.	Correction of the attribute's name	Apply correction

224	ANNEXB	Description and general rules for GetHazmatType added. MS2SSN_PortPlus_Not message added for INFShipClass attribute.	Annex B of XMLRG amended accordingly	Apply changes.

Changes from version 2.03 to version 2.04

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

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

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

Changes from version 2.02 to version 2.03

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

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

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

238	MS2SSN_ShipCall_Res. xml (overview)	Correction of parental elements' position		Corrected position of "SearchCriteria" and "ShipIdentificationCriteria" elements	
245\	MS2SSN_ShipCall_Res. xml (message)	Correction of elements' descriptions		Corrected descriptions of "ProvidedResponseCriteria" and "ShipCallResp" elements	
245\	SSN2MS_ShipCall_Res. xml (overview)	Correction of attribute's position		Corrected position of attribute "GetDetails" which was missing	
245\	SSN2MS_ShipCall_Res. xml (overview)	Correction of attributes occurrency value	11-11-2009	Corrected occurrency values of "ATAPortOfCall" and "Anchorage" attributes	
245\	SSN2MS_ShipCall_Res. xml (message)	Correction of element's description		Corrected description of "ShipCallResp" element	
280	Annex B XML attributes definitions	Amended description of GetDetails attribute		Amendmend	
280	Annex B XML attributes definitions	Updated		Removed type "Choice"	
-	All sections	Correction of examples		Updated/corrected references used into exmples	
		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
89	MS2SSN_PortPlus_Not	Introducing the PortPlus notification message	-	Reflect the forthcoming implementation of the "PortPlus" message.	SSN WGT/01/05
238	Send ShipCall Notification Details requests	Introducing the ShipCall request messages	-		SSN 11/3/6 (v.1.2)
280	Annex B	Contains the definition of all attributes that appear in the SSN XML messages.	-	Improve readability and usage.	SSN WGT/02/03 (v.1.0)
-	All sections	General change. Modified the structure of the document to introduce for each message section: - an overview: it lists the attributes and elements with their occurrences (mandatory or non-mandatory) - a rules part: it describes the specific rules applicable to each attribute. The elements and attributes already defined will just be named and provide a common definitions table in Annex A which lists the attributes and their technical definition. Define the MS2SSN_PortPlus_Not .xml message and MS2SSN_ShipCall_Res .xml message.	07/05/2009		SSN WGT/02/03 (v.1.0)

Changes from version 1.64 to version 1.65

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

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

Page	Map / Block text	Description of the changes	Decision Date	Rational	Context
10	SafeSeaNet global Architecture	Amend the SSN global architecture figure. Update the SSN Services and data flows.	19/02/2008	Revise and align the global architecture to SSN v1.9.	Allign 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.
22	Services description	Include a short description of the SSN Services.	19/02/2008	Clarify the primary use of the services provided.	Allign to SSN v1.9.
-	Chapter 3	Modify erroneous XML message examples.	19/02/2008	Correct XML message examples based on the SSN v1.9 adjustments.	Apply corrections
17	New Data Quality Guidelines section. Chapter 3 under each individual XML message definition.	Include the Data Quality Guidelines.	19/02/2008	Introduce the general Data Quality guidelines and the rules to be enforced per XML message element/aatribute.	Introducing the Data Quality guidlines
58	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.	Allign to SSN v1.9.
71	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

162	MS2SSN_Ship_Res.x ml message	The occusion of item MRSCargoInformation > DGDetails is set to 0-∞. The occusion of element AISCargoInformation is set to 0-1. The occusion of attribute AISCargoInformation > HazardousCargoType is set to 1.	26/05/2008	Correct the optionality of the element that contains 1 optional attribute.	Contact Sheet -0196
176	MS2SSN_Hazmat_Re s.xml message	The occusion of element Cargo Information>DPG is set to 1- ∞. The occusion of elements Cargo Information>DPG >PlacementOfGoods and PlacementOfGoodsInConta iner is set to 0-∞. Ssn.xsd update: set the occusion of element NotificationDetails > VesselIdentification to 1.	26/05/2008	Align ssn.xsd with the XML messaging reference guide.	Contact Sheet -0196
216	SSN2MS_Alert_Res.x ml message	Update the definition of the message. Remove Last name, First name. Add Maritime Authority name. Ssn.xsd update: Element SSN2MS_Alert_Res.xml > Body > ContactIdentification is updated from ssn:ContactDetailsType to ssn:ContactIdentificationT ype with attributes: -LoCode -Phone -FAX -Email -MaritimeAuthority	26/05/2008	Align the definition of the SSN2MS_Alert_ Res message contents with the contents of the MS2SSN_Alert_ Not message.	Contact Sheet -0196
278	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]					
327	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
57	Vessel Identification	Define the vessel identification attributes format.	19/01/2007	The vessel identification validation rules are missing.	Contact Sheet-0148
62	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
165	SSN2MS_Ship_Res.xml message	Define the use of the SentAt and From attributes.	03/08/2007	Add NotificationDetails items Sent_At and From.	ContactSheet-0132
-	XML messages related to NextPortofCall	Introduce the exception location codes ZZUKN and ZZCAN.	25/10/2005	Change UKNWN to ZZNUKN and CANCEL to ZZNCAN	Workshop #4
-	XML messages related to contact details	Phone and Fax number are restricted to only numbers and "+"	12/06/2007	Change the description of the Phone and Fax fields	SSN v1.9 Specifications
-	XML messages related to download information	Url has a maximum length of 256.	12/04/2005	Change the URL field length to 256	Contact Sheet-061
70, 117	Security messages	Note on Security messages	-	Add a note to the security messages.	Decision taken from the MARSEC Committee
159	Annex A	List the most significant and urgent inconsistencies between the XMLRG and the XSD.	24/10/2007	Add the list of inconsistencies in Annex A.	Workshop #8

Changes from version 1.62 to version 1.63

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

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

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

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

Changes from version 1.60 to version 1.62

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

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

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

Changes from version 1.40 to version 1.60

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

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

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