

Member State Commissioning Plan

Part B – Ancillary Test Cases

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DOCUMENT HISTORY

Version	Date	Comments
1.00	28 Sep 2007	Final version. To be published to the Member States.
1.01	07 May 2008	Section 4.1 - Update the SSN Training environment URLs.
1.10	09 Oct 2008	Implemented comments by EMSA. Submitted for review and acceptance.
1.20	30 Jun 2009	Update in line with XMLRG v1.65
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1.60	21 Oct 2011	Remove tests for SSN v1 messages: Port and Hazmat notifications and requests Include note that the SSN v1 request messages Port and Hazmat will only be available till the date agreed by the SSN group Updated/corrected scenario descriptions and XML sample messages for: S1602-03, S1602-03, S1604-12, S3601-01, S3601-02
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2.0	23 Feb 2018	Changes due to SSN V4.00 and new approach for commissioning tests process. Applicable to SSN version 4.0 release: - Changes to the Waste information in the PortPlus notification message (revision of Dir. 2000/59/EC Annex I) - New Bunkers information group in the PortPlus notification and ShipCall Request/Response message (HLSG 14) - Amendments on the reporting of Exemption notifications (HLSG 15) and new Exemption Request/Response message. - Technical amendments to the Hazmat information proposed by the Hazmat Working Group (HLSG 13)
2.1	14 May 2018	Corrections in the numbering of tests for sending PortPlus notifications and clarification added in the section describing MS2SSN_ShipCall_Res tests.
3.0	01 October 2020	Changes due to SSN V5.00. Applicable to SSN version 5.0 release: - Exchange of information on persons sailing on board passenger ships for search and rescue purposes as required by Directive 98/41/EC as amended by Directive (EU) 2017/2109; - Exchange of information from the revised advance waste notification and the waste delivery receipt as required by Directive (EU) 2019/883; - Amendments on the reporting of Exemption notifications – new types of exemptions; - Proposals from the IR Working Group for the improvement of Incident Reporting.
3.1	19 August 2021	Example XML messages included. Minor corrections

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1. INTRODUCTION

Purpose This document presents the test cases and test scenarios to be used by Member States to support the Commissioning Tests (CT) process.

1.1. PRELIMINARY REMARKS

Scope The CT process is required to ensure that the national SSN systems can support the reliable, timely and accurate exchange of data and system information within the SSN network (via XML).

The CT process covers all of the SSN XML messages transmitted to/from the central SSN system via XML or the Web Services Interface.

All test cases must be executed with fully automated system-to-system, in order to test the national SSN system implementation.

This CT plan document supports the following objectives:

- Identifies the functional requirements as targets for testing.
- Recommends and describe the testing strategies to be employed.
- Identifies the required resources.
- Recommends and describe the test organisation.
- Presents a list of test scenarios to execute.
- Provides support for test and bug reporting.

The tests to be performed, the test data to be delivered and the reporting requirements are indicated in this document.

Intended audience The intended audience for this document should have knowledge of the SSN specifications and Internet. It is mainly addressed to:

- national SSN systems administrators;
 - members of the Testing Team;
 - EMSA personnel involved with the SSN project;
 - any person involved in the deployment of SSN, and;
 - MSS officers.
-

Risks In order to correctly carry out the tests, the development lifecycle of each national SSN system should foresee a mechanism of timely builds (and version control), and a test environment isolated from the development and production environment.

Document organisation

The document is divided into two parts: Part A includes the mandatory test cases and Part B the ancillary tests cases.

This is in line with the Interface and Functionalities Control Document (IFCD) version 1.2, definition of SSN mandatory system functionalities (chapter 2.3) and the mechanisms available for information exchange (Table 1) of the IFCD.

Some test cases are mandatory depending on the Member States national implementation.

The following table summarises the tests cases included in Part A and B:

Part A – Mandatory test cases	
Provision of PortPlus notifications with the Advanced Waste notification and Waste Delivery receipt details	MS2SSN_PortPlus_Not
Response to ShipCall requests with PortPlus notification details – Hazmat, Bunkers ¹ , Security and Crew and Passenger list.	SSN2MS_ShipCall_Req MS2SSN_ShipCall_Res
Provision of Ship MRS notifications ²	MS2SSN_Ship_Not
Response to Ship requests with MRS notification details ²	SSN2MS_Ship_Req MS2SSN_Ship_Res
Part B – Ancillary test cases	
Provision of Incident Report notifications or feedback	MS2SSN_IncidentDetail_Not
Reception of distributed Incident Report notifications or feedback	SSN2MS_IncidentDetail_Tx
Request of Incident Report notifications or feedback	MS2SSN_IncidentReport_Req SSN2MS_IncidentReport_Res
Request of PortPlus notifications	MS2SSN_ShipCall_Req SSN2MS_ShipCall_Res
Request of Ship MRS notifications	MS2SSN_Ship_Req SSN2MS_Ship_Res MS2SSN_Ship_List_Req SSN2MS_Ship_List_Res
Provision of Exemptions notifications	MS2SSN_Exemption_Not
Requests of Exemptions notifications	MS2SSN_Exemption_Req SSN2MS_Exemption_Res

Notes:

(¹) Mandatory for Member States that require that information on bunkers on board is reported in their National Single Window using FAL 3 - Ship's Store Declaration.

(²) Mandatory for Member States operating a mandatory ship reporting system (MRS), adopted by the IMO according to Regulation 11 Chapter V of the SOLAS Convention.

1.2. REFERENCE & APPLICABLE DOCUMENTS

Id	Reference	Title	Version
A1	SSN-XMLMessagingRefGuide	SSN XML Reference Guide	5.01
A2	IFCD	Interface and Functionalities Control Document	1.2
A3	SSN-MSCTP-Report	Member State Commissioning Test Report template	3.1

1.3. TERMINOLOGY

Abbreviation	Definition
ADM	Administrator
AMN	Administrator Manual
ATP	Acceptance Test Plan
BCT	Business Cycle Testing
CT	Commissioning Test
CTR	Commissioning Test Report
DIT	Data Integrity testing
EMSA	European Maritime Safety Agency
FAT	Factory Acceptance Test
FT	Function testing
FTR	FAT Report
GUI	Graphical User Interface
IPR	Installation Procedures Manual
MNG	Management Console
MSS	Maritime Support Services
N/A	Not Applicable or Not Available
NCA	National Competent Authority
POR	Port Authority
QC	Quality Control
RT	Regression testing
SAT	Site Acceptance Testing
SOAP	Simple Object Access protocol
SPOC	Single Point Of Contact
SSN	SafeSeaNet
TC	Test Case
TIR	Test Incident Report
TP	Test Procedure
TRM	Training Material
TS	Tester Specialist
TST	Test Scenarios
UC	Use Cases
UMN	User Manual
XML	Extensible Markup Language

2. REQUIREMENTS FOR TEST

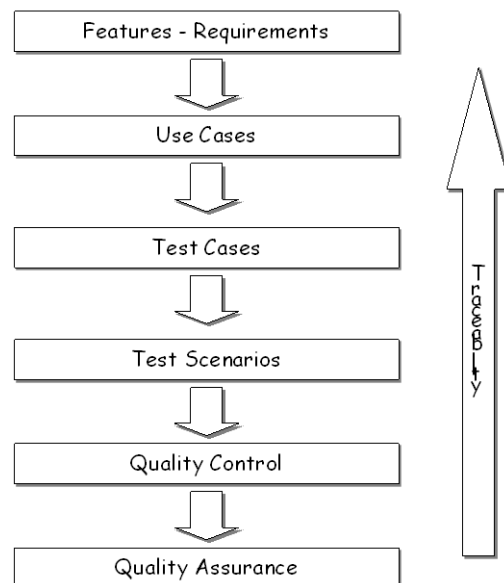
This chapter describes the system elements identified as targets for testing, classified according to the different types of test.

These lists represent *what* will be tested.

2.1. LIST OF FUNCTIONAL REQUIREMENTS

Definition Functional requirements specify actions that a system must be able to perform, without considering physical constraints. Functional requirements thus specify the input and output behaviour of the system under testing.

Traceability Every system must respond to the requests of stakeholders. Each requirement must be analysed, designed and tested. The following diagram clarifies the connection between the requirements and a test case. This aspect is also known as traceability, and it permits the trace back of a particular test scenario to its origin (the requirement).



Abbreviations The different test types are described in the next chapter, and the following abbreviations are used:

- FT: Function Testing
- BCT: Business Cycle Testing
- RT: Regression Testing
- DIT: Data Integrity Testing

List of Requirements

The table below lists the system elements identified as targets for testing under part B – Ancillary test cases and the type(s) of test(s) to be carried out:

Use Case	Description	Type of test
Send Notification	Provision of Incident Report notification or feedback	FT
Get PortPlus Notification Details	Request of PortPlus Notification	FT
Get Ship Notification Details	Request of Ship Notification (MRS)	FT
Get notification of distributed Incident report	Reception of distributed Incident Report notification or feedback	FT
Request/ Receive IR details	Request of Incident Report notification or feedback	FT
Send Exemption Notification	Provision of Exemption Notification	FT
Get Exemption Notification Details	Request of Exemption Notification or list of Notifications	FT

3. TEST STRATEGY

Introduction This chapter describes the testing strategy to be employed by Member States in order to validate the conformance of national SSN system specifications. More specifically, this chapter describes the test types that are to be performed and the reasons *why* and *how* they are performed.

The CT process will be carried out in two phases. Both phases will be executed using the Test environment of the MS that will be connected to EMSA: Training environment (First Phase) and Pre-Production environment (Second Phase).

First Phase

This phase will ensure that the technical interface between the central SSN and the national SSN applications meets the technical standards set. The CT entails the successful completion of the commissioning test plan, as set out in the Commissioning Plan documents (Part A and Part B for ancillary tests).

EMSA will request MS to deliver the report pertaining to specific test cases associated with relevant functionalities (SSN-MSCTP-Report v3.0). The MS report will be assessed by EMSA.

The results of the First Phase would be provided in ***ten working days***.

If some tests need to be repeated, EMSA will indicate in the results the tests that need to be repeated and the explanation why they were not accepted.

Second Phase

Option 1:

After the successful completion of the First Phase, EMSA will perform the validation of the national SSN system.

The validation is performed by using actual production data that is ingested by the MS in their Test environment connected to EMSA Pre-Production environment. This set of production data will be converted to be compliant with the version under validation, e.g. production data in v4 will have to be transformed in v5 format in order to be used in this second phase.

None of the MS Authority nor agent would be involved since that conversion of the current V4 operational data into V5 format would be done at the National Central system level connecting with EMSA SSN Central system.

The use of the EMSA Pre-Production environment fulfils SSN security and data protection requirements since this environment is not available to external users. In any case, MSs can also remove sensitive data before the transformation process as an additional measure for data protection.

During this phase the MS will not stop sending data to the SSN Production environment. The behaviour and results will be analysed in a ***one-week period***.

Option 2:

Alternatively, for those MS that are not able to execute Phase 2 of the Commissioning tests as described in the Option 1 above, the data quality checks of the new SSN version 5 will be carried out during the first week in Production. If the number of rejected messages during this first week is high or there are other serious problems, the MS will be requested to roll-back to the previous version 4 until the detected issues are corrected.

Upon the successful completion of the second phase EMSA will confirm that the national SSN system is ready to operate in the Production environment. The validation report will be included as part of the WoB document.

3.1. TEST TYPES

Introduction This section describes the necessary test types and their reasons, in order of importance.

Test type	Description
Function Testing	The conformance of a national SSN system application requires the correct functioning of all the features which have been converted into use cases, use case diagrams and detailed analysis documents (e.g. the Software Requirements Specification).
Business Cycle Testing	The fact that SSN deals with messaging transactions (asynchronous behaviour) between applications in different European countries, is reason to include business cycle tests.
Data & Database Integrity Testing	<p>The most crucial aspect of the application is that XML messages are correct, first in form, and then in content. The message validation, in accordance with XML standards and defined XML schema, is absolutely necessary. The Data Requester and the Data Provider need to follow the XML messaging specifications to the letter.</p> <p>Developers of national SSN system client applications can carry out a significant portion of the quality control task.</p>
Regression Testing	<p>Regression testing is necessary to ensure that the previously executed tests are being re-executed against new versions of applications or deliverables.</p> <p>Regression testing ensures that the quality of the target has not been negatively affected when new capabilities have been added.</p> <p>Member States are strongly encouraged to perform regression testing whenever a new version of the central SSN system is developed and deployed.</p>

Techniques This section provides additional information on the methods used to carry out different test types and interpret the test results.

Function Testing

Function testing relates to testing requirement that can be traced directly to use cases or business functions.

Test Objective:	Ensure functionality.
Technique:	Perform a sequence of actions by sending XML messages using valid and invalid data to verify expected results when data is valid, and the appropriate error message when invalid data is entered. Also verify if each business rule is properly applied.
Completion Criteria:	All planned tests have been executed. All identified defects have been addressed.
Special Considerations:	Each new requirement or changed feature results in a new test case and underlying test scenarios.

Business Cycle Testing

Business cycle testing should emulate activities (or sequences of activities) that are performed over a defined period of time. The asynchronous aspects of the SSN solution are an important element in these types of tests.

Test Objective:	Ensure correct and timely flow of activities.
Technique:	The appropriate function test cases are modified (test scenario) to reflect the asynchronous or transactional aspect. Timing-out and loss of connection situations have to be taking into account. All functions that occur on a periodic schedule will be executed at the appropriate time. All date-sensitive functions will be executed using valid and invalid dates. Testing will include using valid and invalid data to verify expected results when using valid data and the error or warning messages when using invalid data. Also verify if each business rule is properly applied.
Completion Criteria:	All planned tests have been executed. All identified defects have been addressed.
Special Considerations:	System dates and events may require special support activities.

Data and Database Integrity Testing

The databases and the processes that construct and validate the XML messages to be exchanged should be tested.

Test Objective:	Ensure database access methods and XML processes function properly and without data corruption.
Technique:	Invoke each database access method and process, seeding each with valid and invalid data or requests for data. Inspect the database to ensure that the data has been populated as intended, and that all database events occurred properly, or review the returned data to ensure that the correct data was retrieved for the correct reasons.
Completion Criteria:	All database access methods and XML processes function as designed, and without any data corruption.
Special Considerations:	Testing may require a DBMS development environment or drivers to enter (or modify) data directly in the databases.

Regression Testing This type of testing focuses on the re-execution of test scenarios against a new version of the application or deliverable.

Test Objective:	Ensure that the quality of the target has not been negatively affected by recent developments.
Technique:	Perform a sequence of actions to test against improved or new functionalities.
Completion Criteria:	All planned tests have been executed. All identified defects have been addressed.
Special Considerations:	Each new requirement, or changed feature, determines a new test case and underlying test scenarios.

3.2. ENVIRONMENT NEEDS

Environment Needs The test environment consists of the following machines:

System	Tool	Responsible
National SSN system in the Test environment	The client machines that the NCA users use to access the system through the Internet.	Member State
Central SSN system in Training and in Pre-Production environment	The application servers where the SSN core is installed.	EMSA
SSN Core Database in Training and in Pre-Production environment	The database server where the SSN Oracle Database 12c Enterprise Edition is installed.	EMSA

4. TEST ORGANISATION

Introduction This chapter focuses on *how* to carry out the test.

Each Member State should have a test environment running in parallel with the production environment in order to test the interface with the central SSN system Training environment. This test interface should allow the tester to run the tests whenever there is a new version of SSN, or a new functionality impacting the data exchange with SSN is implemented (Phase 1).

As described above, once successfully completed the commissioning test plan, as set out in the Commissioning Plan documents (Part A and Part B for ancillary tests), the MS Test environment will be connected to EMSA Pre-Production environment (Phase 2 – Option 1).

Actual production data, converted to be compliant with the version under validation, is ingested by the MS Test environment so as to carry out the validation of the national SSN system by EMSA.

Test support During a test phase, problems related to connection issues, technical or functional misunderstandings, rejected messages or other might occur. The Maritime Support Services (MSS) can be contacted at:

Phone: +351 21 1209 415

Mailbox: MaritimeSupportServices@emsa.europa.eu

4.1. RESOURCES

Staff The following table shows the recommended staffing requirement for both the Member States and the central SSN system.

Role in Test Discipline	Min. Resources	Covered by (MS, SSN-EIS, both)	Specific Responsibilities or Comments
Test Manager	1	Both	Provides management oversight. <u>Responsibilities:</u> Provide technical direction Acquire appropriate resources Provide management reporting
Test Designer	1	Central SSN	Identifies, prioritises, and implements test cases. <u>Responsibilities:</u> Generate test plan Generate test model Evaluate effectiveness of test effort
Tester	1	MS	Executes the tests. <u>Responsibilities:</u> Execute tests Log results Recover from errors Document change requests
Test System Administrator	1	Both	Ensures test environment and assets are managed and maintained. <u>Responsibilities:</u> Administer test management system Install and manage access to test systems

Role in Test Discipline	Min. Resources	Covered by (MS, SSN-EIS, both)	Specific Responsibilities or Comments
Dbase Administrator, Dbase Manager	1	Both	Ensures test data (database) environment and assets are managed and maintained. <u>Responsibilities:</u> Administer test data (database)

Remarks

The roles described in the table should be seen as activities that need to be carried out by individuals during the testing process. One person can take one or more responsibilities.

4.2. PRELIMINARY ACTIONS

Phase 1:

Request to access the SSN Training environment

Before carrying out a commissioning test, it is very important that the following actions are taken:

The NCA shall send a request to EMSA in order to gain access to the SSN Training environment. Requests can be submitted by email to the MSS mailbox.

EMSA will request for the following information:

- URL(s) from which the MS will perform the tests (Provider and Requester URL, if applicable).
- Protocol that is going to be used (SOAP or XML).
- Confirmation if the existing user should be used or there is a need to create a new user.
- Scope of the CT (test plan specifying the test scenarios to be covered).
- Planned date for starting the CT.
- Documentation required for generations of the Digital Certificates (if applicable).
- Indication which option for Phase 2 has been chosen.

Access to the central SSN system and acquisition of digital certificates

Before any real data exchange, each Member State must test its access to the central SSN system. The central SSN system will provide a URL, which consists of an html page, but if the Message-based mechanism implementation cannot access this page, there will be no connection between the systems, and the test cycle cannot take place.

For the Message-based mechanism:

<https://eis-training.emsa.europa.eu:448/eis/xmlprotocol-web/v5/ssn.do>

For the Web Services interface is accessible at:

<https://eis-training.emsa.europa.eu:448/eis/soapprotocol-ws/ssnmessageservice/message.wsdl>

For consultation purposes, and to confirm the results of a test scenario (e.g. that a notification has been recorded in the central SSN system), the SSN Web interface is available:

<https://portal-training.emsa.europa.eu/home>

To test 2-way SSL for sending and receiving data request (MS2SSN_<type>_Req & SSN2MS_<type>_Req) and response (MS2SSN_<type>_Res & SSN2MS_<type>_Res) messages to/from the central SSN system, the following actions must be carried out:

- Acquisition by the Member State of client and server certificates from the EMSA Certification Authority (CA) and their installation on the test server(s) interfacing with the central SSN system in Training environment. The Digital Certificates Request Form is available at: <http://www.emsa.europa.eu/digital-certificate-request-form.html>
- EMSA will configure the domain of the national test server(s) at the central SSN system Reverse Proxy level. The domain of the Data Provider and Data Requester URLs given in the user ID details shall match with the domain of the digital certificate. Should notification details be provided in the form of electronic documents, these documents must be available via the Web server where the certificates are installed.
- Installation by the Member State of the EMSA root CA and client digital certificates on the web servers providing XML messages (acting as client).
- Installation by the Member State of the EMSA root CA (if the application server is different from the application client) and the EMSA intermediate, and server, digital certificates on the web servers receiving incoming XML messages (acting as servers). These application servers must also be configured to require HTTPS and client certificates when accessing the page receiving the incoming XML messages (requests or responses). The EMSA Root and Intermediate certificates can be downloaded at: <http://emsa.europa.eu/pki/>
- Ensuring that the Firewall and DNS servers are configured to the central SSN system Reverse Proxy server.

Preliminary tests should be carried out to ensure that the system is transmitting the correct XML messages to the central SSN system, based on the flow of the XML messages and the XML message specifications outlined in the SSN XML messaging reference guide and the SSN XML Schema "ssn.xsd" (both made available via both the EMSA Website and the Extranet).

Preliminary tests

The SSN Training environment is primarily set up in order that Member States can test the implementation of their systems and the interfacing with the central SSN system.

Several tests may be conducted by sending notification, request and response messages to/from the central SSN system.

Notification messages should be sent to the central SSN system in order to test the interconnection of the systems, and the access rights of the user ID defined in the *FROM* attribute of the XML message that was sent should be validated.

The set of test scenarios by notification types or request-response XML

messages should be executed in order to test the effectiveness of implementation, and the required corrections and/or adjustments should be carried out as necessary.

Prepare the test plan and organize the test team

While this test plan covers all of the test cases for all types of XML messages exchanged in SSN, the NCA can decide whether the scope of the commissioning test should be limited to a set of test cases. Therefore, the test plan should be adjusted accordingly.

With this regard, the list of test cases and test scenarios to be executed shall be clearly determined and grouped into test cycles.

For every test scenario, the test data should be defined. Test data include the identification of the vessels as appropriate (IMONumber and/or MMSINumber, CallSign, ShipName) and the details of the XML message, as defined in the SSN XML messaging specifications. For example, the test data for test scenario S1220-01 are given in the form of the XML message below:

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_Ship_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="5.0" SentAt="2021-08-02T16:25:29Z"
    From="SOAPUI_V5_XML_IT_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627921529569"/>
  <Body>
    <MRSNotification>
      <MRSInformation MRSIdentification="ADRIREP"/>
      <VesselIdentification IMONumber="9240005" />
      <VoyageInformation NextPortOfCall="GRTIN" ETA="2021-08-03T16:25:29Z" TotalPersonsOnBoard="45" AnyDG="Y">
        <ShipPosition Longitude="45" Latitude="90"
          ReportingDateAndTime="2021-08-02T16:25:29Z"/>
      </VoyageInformation>
    </MRSNotification>
  </Body>
</MS2SSN_Ship_Not>
```

The test plan should be submitted to the MSS for verification. Upon verification, the MSS will provide information on any required changes.

The Member State shall prepare accordingly the test database and the database connection and introduce the test data as appropriate.

The test plan should clearly identify the test team structure and the roles of each participant.

With this regard, the NCA should assign roles/responsibilities and contact persons (internal and external). The Member State shall provide the following information to the MSS:

- The contact details of the test manager (i.e. name/e-mail address/phone)
 - The contact details for the tester(s) (relevant only for test result reporting and bug reports when extra information is required)
 - The contact details for the test system administrator(s) (in case test environment problems occur)
-

A request for booking the SSN Training environment should be submitted by the relevant NCA to MSS when all of the aforementioned preliminary actions have been completed, and users are ready to begin the formal commissioning test.

Such a request should be sent at least 5 working days in advance in order to confirm the availability of the Central SSN Training environment.

Depending on the availability of such environment, the MSS may issue a

**Request to
EMSA before
launching the
tests**

confirmation, or propose an alternative date.

When a Member State is ready to begin testing, the MSS should be informed by telephone or e-mail.

During the commissioning tests, the MSS can be contacted to provide assistance in executing the test scenarios, or for clarification.

When the tests have been completed, the MSS should be informed so that the logging data can be extracted from the SSN Training environment in order to validate the test results.

Test Cycle

The test cycle depends on the types of notifications to be tested. The duration of the test will be defined by the Member State in consultation with the MSS.

Each test cycle involves the Member State in following 4 consecutive actions:

Action 1: Test Initiation

Action 2: Test Execution

Action 3: Test Reporting

Action 4: Test conclusion by EMSA

**Test Cycle
Workflow**

Figure 1 summarises the key elements in the test cycle workflow:

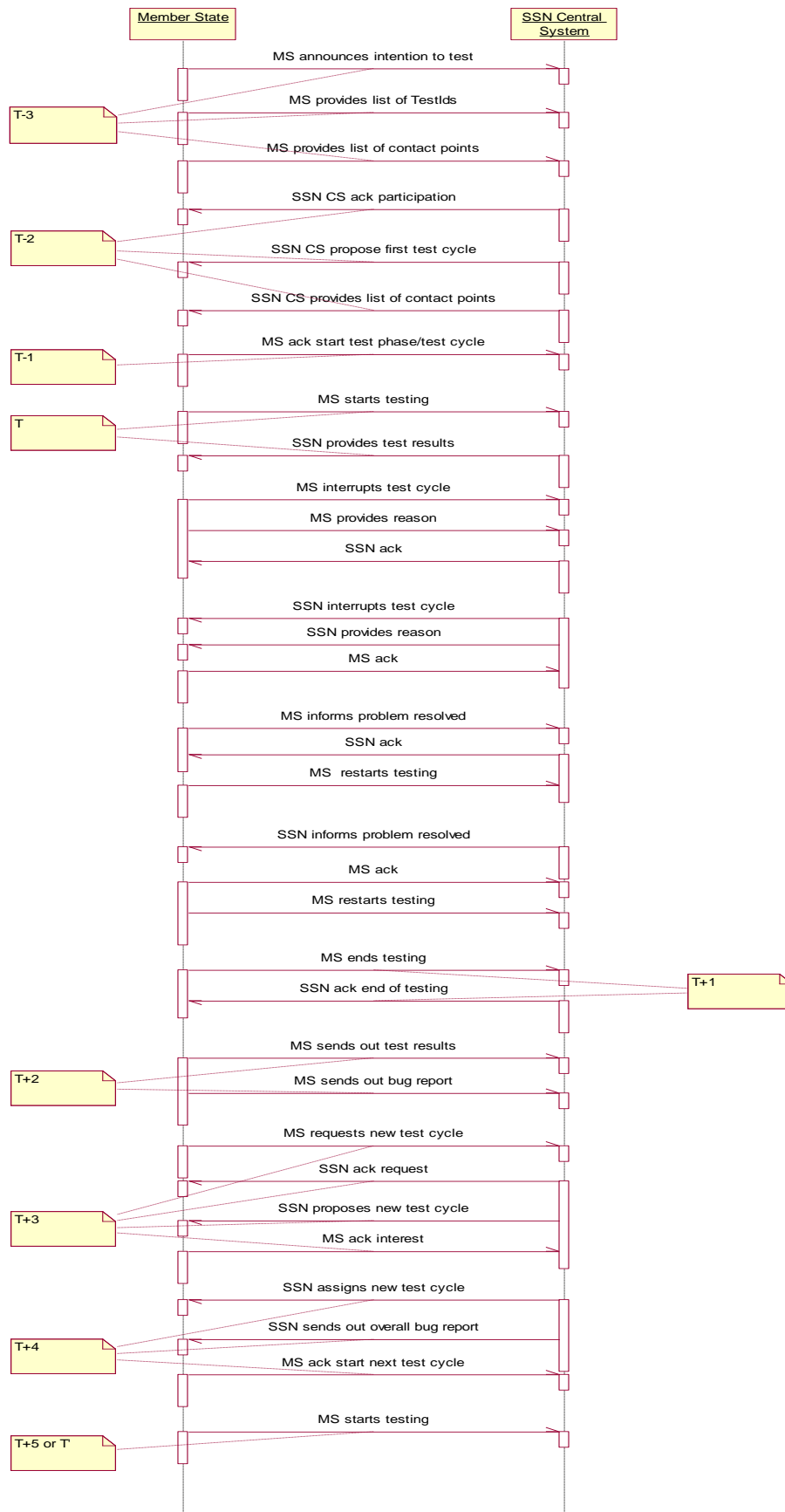


Figure 1 - Test Cycle Workflow

Phase 2 – Option 1

Request to EMSA before launching the tests

Before carrying out the Phase 2 of the CT – Option 1, it is very important that the following actions are taken:

The NCA will send a request for the connection the National SSN Test environment with the Central SSN Pre-Production environment.

This e-mail will provide the following information to EMSA:

- URL(s) from which the MS will perform the tests (Provider and Requester URL, if applicable).
- Protocol that is going to be used (SOAP or XML).
- Confirmation if the existing user should be used or there is a need to create a new user.
- Planned date for starting the CT.
- Documentation required for generations of the Digital Certificates (if applicable). The Digital Certificates Request Form is available at: <http://www.emsa.europa.eu/digital-certificate-request-form.html>

Requests can be submitted by email to the MSS mailbox.

Provision of production data through the _National SSN Test environment

The National SSN Test environment will ingest actual production data converted to be compliant with the version under validation, e.g. data in v4 should be transformed into v5.

Preliminary tests

Preliminary tests should be carried out to ensure that the system is transmitting the proper data compliant with the version under validation.

Prepare the test plan and organize the test team

This test plan will include covers the list of test cases and test scenarios to be executed.

The test plan should be submitted to the MSS for verification. Upon verification, the MSS will provide information on any required changes.

The test plan should clearly identify the test team structure and the roles of each participant.

With this regard, the NCA should assign roles/responsibilities and contact persons (internal and external). The Member State shall provide the following information to the MSS:

- The contact details of the test manager (i.e. name/e-mail address/ phone)
- The contact details for the tester(s) (relevant only for test result reporting and bug reports when extra information is required)
- The contact details for the test system administrator(s) (in case test environment problems occur)

Request to connect the National SSN Test

When all of the preliminary actions above have been completed a request for connection to the Central SSN Pre-Prod environment will be submitted by the relevant NCA to MSS.

**environment
with EMSA
SSN Pre-Prod
environment**

Such a request should be sent at least 5 working days in advance in order to confirm the availability of the Central SSN Pre-Production environment.

Depending on the availability of such environment, the MSS may issue a confirmation, or propose an alternative date.

When a Member State is ready to begin testing, the MSS should be informed by telephone or e-mail.

During the commissioning tests, the MSS can be contacted to provide assistance in executing the test scenarios, or for clarification.

When the tests have been completed, the MSS should be informed so that the logging data can be extracted from the SSN Pre-Production environment in order to validate the test results.

4.3. TEST EXECUTION

Phase 1

Test Timeline Testing can be carried out by individual Member States in order to test their interface with the central SSN system. Although the central system is capable of fully simulating interactions between Member States, there is also the possibility of connecting more than one at the same time in order to demonstrate the real transfer of information.

Test Suspension Suspension of testing can occur should it become clear that the completion of the tests is not possible. The defect that produced the suspension (known as the suspension defect) is communicated to the responsible engineer for immediate correction.

Test Resumption Testing can only resume after the test case that produced the suspension defect, and those associated with it, have been successfully re-run (regression test). Testing continues with the next test case.

XML Test Message When a Member State tests its interface implementation, it will use its test environment (and test interface) to generate XML messages that will be sent to the central SSN system. The test interface should allow entering the TestID related with the test scenario being executed. This TestID should then be incorporated into the XML message in accordance with the XML Messaging Reference Guide. Return of XML messages from the central SSN system will repeat the TestID.

The "From" attribute reflects the sender, but not the sender's location or Locode or role. Users should always use the received userid in the "From" attribute, and not the location code, because a location code or location can be linked to multiple users with different roles and different access rights.

Test ID Member State shall use the following nomenclature:

- Member State: XX, 2 letters representing the Member State
- Test Phase: C (conformance testing)
- Test Cycle: 1 to n
- Test scenario ID: Each test scenario described in the last section of this document has a test scenario ID.

For example:

NO-C1-S1220-01 indicates that Norway is executing test scenario S1220-01 during the first test cycle of the conformance test phase.

DE-C2-S1601-01 indicates that Germany is executing test scenario S1601-01 during the second test cycle of the conformance test phase.

XML Test Message Example

```
<?xml version="1.0" encoding="UTF-8"?>
<MS2SSN_PortPlus_Not xmlns="urn:eu.emsa.ssn">
  <Header Version="5.0" From="SOAPUI_V5_XML_DE_SYS"
MSRefId="SOAP_MS_1627921645726" SentAt="2021-08-02T16:27:25Z"
To="SafeSeaNet"/>
  <Body>
    <NotificationStatus UpdateStatus="N"/>
    <Notification>
      <VesselIdentification IMONumber="8433459"/>
      <VoyageInformation
ShipCallId="SHCL_1627921645725" NextPort="DEHEI" LastPort="DEABL"
PortOfCall="DEHEN" ETAToPortOfCall="2021-08-02T16:27:25Z"
ETAToNextPort="2021-08-05T16:27:25Z" ETDFromPortOfCall="2021-08-
04T16:27:25Z" ETDFromLastPort="2021-08-01T16:27:25Z"/>
      <PreArrival3DaysNotificationDetails
CargoVolumeNature="fuel" ConditionCargoBallastTanks="inerted"
PlannedOperations="unloading" PlannedWorks="Maintenance"
PossibleAnchorage="Y" ShipConfiguration="SHT"/>
      <PreArrival24HoursNotificationDetails
POBVoyageTowardsPortOfCall="123"/>
      <HazmatNotificationInfoNonEUDepartures>
        <HazmatCargoInformation
HazmatOnBoardYorN="Y" INFShipClass="INF2">
          <DG DGClassification="IMDG"/>
        </HazmatCargoInformation>
      <CargoManifest>
        <UrlDetails
Url="https://test1.test.gr" DocType="PDF"/>
      </CargoManifest>
    </HazmatNotificationInfoNonEUDepartures>
    <BunkersNotificationTowardsPortOfCall
BunkersReportedYorN="Y"/>
    <CrewAndPaxNotificationOnArrival
CrewAndPaxYorN="N" NumberOfCrew="10" NumberOfPassengers="10"/>
  </Notification>
</Body>
</MS2SSN_PortPlus_Not>
```

Test Scenario Contents

Each test scenario contains the following:

- A description of the test scenario (pre/post conditions)
- A sequence of steps describing what the tester or application should do
- The expected result for each step
- A list of checkpoints where the tester should make verifications (on the interface or in the database)
- The XML message(s) to be distributed
- The XML message(s) to be received

Test Users

Each Member State should provide a list of (test) users so that user IDs can be assigned for the Message-based mechanism.

**Testing
through
Message-
based
mechanism**

Should the national Message-based mechanism of the Member State be used to send out notifications and requests, the central SSN system needs to know the complete data requester URL in order to send back notification acknowledgments and responses to the requests.

If the local Message-based mechanism can act as a data provider, the central SSN system needs to know the complete data provider URL in order to allow the central SSN system to forward requests coming from another Member State.

For each user being entered in the central system, the user_id, the organisation to which this user is assigned, the contact information, the role(s) and the access point to SSN (as data requester and data provider) are defined.

Identifying users by the data provider and data requester URLs is essential to the SSN asynchronous architecture, as between the sending of a request for details and the provision of the response to the requester, the session ends. In order to allow SSN to provide a response to the correct requester, a token is stored internally, which allows the system to trace the sender and the corresponding data requester URL. This mechanism is used for each end user connected to SSN.

Phase 2 – Option 1

During this phase the MS will not stop sending data to the SSN Production environment.

The MSS will inform the MS when this phase had concluded and request the required logs for analysis.

4.4. TEST REPORTING

**Test
Reporting**

The test report should contain the test variables such as: Member State, Test Cycle and the test scenarios (TestIDs) actually executed. In addition, the following information should be provided for each test scenario:

- Whether it was executed during the test cycle
- Whether the test passed or failed ("partially passed" is also an option if something went wrong during test execution)
- The bug identifier (for failed tests)

The test report should be made available by the end of the test cycle, so that problems or bugs can be resolved as soon as possible, and another cycle can initiate.

The template of the test report is provided as reference A3.

4.5. TEST CONCLUSION

Concluding Test Cycle

A report is prepared by EMSA when all test cases have been run. The report will indicate the test cases which passed or failed and follow up actions.

The Member States shall arrange an additional test cycle once the corrections have been applied.

5. TEST SCENARIOS

5.1. PROVISION OF INCIDENT REPORT (IR) NOTIFICATION OR FEEDBACK

User configuration

Prior to the launch of the CT for the IR Message-based mechanism, all MSs are invited to configure their users (users or Authorities) using the EMSA Identity Management system (IdM) and SSN management console in the training environment.

Users set-up

One of the following profiles need to be assigned in the EMSA Identity Management System (IdM) to a system user providing Incident Report notifications:

- National SSN System (PRF_NAT_SSN);
- National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only;
- Port System (PRF_PORT_SYSTEM) – for port system communicating with SSN.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 2:

Protocol	Provider Url	Requestor Url	Certificate Name	Delete
SOAP				

Figure 2 – XML and SOAP interface setup.

Use cases list

For the purpose of CT for the new IR data exchange mechanism, the use cases identified in the table below should be used.

Ref	Description	Systems utilised for the commissioning tests	Notes
UC-IR-1	Provision of IR notification or feedback via XML or SOAP interface.	MS application acting as data provider Central SSN system	Recipients for both IR and feedback will be identified in the relevant distribution element of the notification sent by the data provider. The central SSN system shall distribute the messages depending on the configuration made by the MSs in the management console. The MS acting as a data provider will receive the consolidated XML acknowledgement message.

The data provider sends this message to notify SSN that the Member State has information related to an incident (e.g. new IR notification, update of a notification, new feedback report or update to a feedback report). The incident workflow includes the following key items:

- Distribution (or not) of an Incident report or its updates to the MSs

selected by the data provider and defined in the notification message.

- Provision of feedback from an MS¹ (StatusReason="U" or StatusReason="D" can only be used by the originator of the feedback).
- The possibility to link different IRs related to the same event.
- The notification, including all the details (in XML or as an attached document).

Systems involved This diagram depicts the systems involved in the CT and the message flows for this use case².

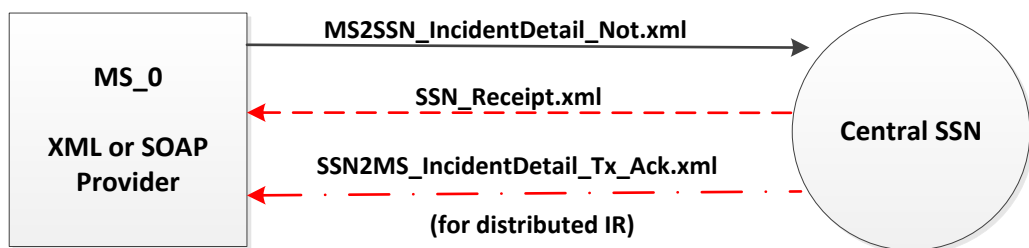


Figure 3 – Systems involved in the commissioning tests (UC-IR-1)

Test Cases

The following test cases shall be executed during the CT.

Those test cases indicated as mandatory shall be carried out while the remaining ones may be performed on the voluntary basis.

Test Case Id	Description
TC 3701	Message-based mechanism sending new IR notification - Normal flow Successful (Distributed and Not Distributed)
TC-3702	Message-based mechanism sending new Feedback on IR (Distributed and Not Distributed)
TC-3703	Message-based mechanism updating an IR notification (Distributed and Not Distributed)
TC-3704	Message-based mechanism updating a feedback on IR (Distributed and Not Distributed)
TC-3705	Message-based mechanism deleting a IR notification (Distributed and Not Distributed)
TC-3706	Message-based mechanism deleting a Feedback on IR (Distributed and Not Distributed)
TC-3707	Message-based mechanism sending a notification - Invalid message

Test scenarios

The above test cases are detailed in the following test scenarios:

TC – 3701 Scenarios XML or SOAP interface sending new notification – Normal flow successful (Distributed and Not distributed)		
Mandatory for MS	TestId	Description

¹ The initial IR data provider is allowed to send feedback

² MS_0 is the original IR provider via XML or SOAP

X	S3701-01	Message-based mechanism sending new IR notification "WASTE" (distributed) - Normal flow Successful
X	S3701-02	Message-based mechanism sending new IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful
X	S3701-03	Message-based mechanism sending new IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful
X	S3701-04	Message-based mechanism sending new IR notification "LOST&FOUND" (distributed) - Normal flow Successful
X	S3701-05	Message-based mechanism sending new IR notification "FAILED_NOTIFICATION" (Not distributed) - Normal flow Successful
X	S3701-06	Message-based mechanism sending new IR notification "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) - Normal flow Successful
X	S3701-07	Message-based mechanism sending new IR notification "BANNED_SHIP" (Not distributed) - Normal flow Successful
X	S3701-08	Message-based mechanism sending new IR notification "INSURANCE_FAILURE" (Not distributed) - Normal flow Successful
X	S3701-09	Message-based mechanism sending new IR notification "PILOT_PORT_REPORT" (Not distributed) - Normal flow Successful
X	S3701-10	Message-based mechanism sending new IR notification "OTHER" (Not distributed) - Normal flow Successful

TC – 3702 Scenarios XML or SOAP interface sending new Feedback on IR (Distributed and Not distributed)		
Mandatory for MS	TestId	Description
X	S3702-01	Message-based mechanism sending new feedback on "WASTE" (distributed) - Normal flow Successful
X	S3702-02	Message-based mechanism sending new feedback on "SITREP" (distributed) - Normal flow Successful
X	S3702-03	Message-based mechanism sending new feedback on "POLREP" (distributed) - Normal flow Successful
X	S3702-04	Message-based mechanism sending new feedback on "LOST&FOUND" (distributed) - Normal flow Successful
X	S3702-05	Message-based mechanism sending new feedback on "FAILED_NOTIFICATION" (Not distributed) - Normal flow Successful
X	S3702-06	Message-based mechanism sending new feedback on "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) - Normal flow Successful
X	S3702-07	Message-based mechanism sending new feedback on "BANNED_SHIP" (Not distributed) - Normal flow Successful
X	S3702-08	Message-based mechanism sending new feedback on "INSURANCE_FAILURE" (Not distributed) - Normal flow Successful
X	S3702-09	Message-based mechanism sending new feedback on "PILOT_PORT_REPORT" (Not distributed) - Normal flow Successful
X	S3702-10	Message-based mechanism sending new feedback on "OTHER" (Not distributed) - Normal flow Successful

TC – 3703 Scenarios XML or SOAP interface updating a IR notification (Distributed and Not distributed)		
Mandatory for MS	Test Id	Description
X	S3703-01	Message-based mechanism updating IR notification "WASTE" (Not distributed) - Normal flow Successful
X	S3703-02	Message-based mechanism updating IR notification "SITREP" (Not distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful - Include PlaceOfRefugeInformation
X	S3703-03	Message-based mechanism updating IR notification "POLREP" (Not distributed) – POLREP is associated to a SITREP – Normal flow Successful
X	S3703-04	Message-based mechanism updating IR notification "LOST&FOUND" (Not distributed) – Normal flow Successful
X	S3703-05	Message-based mechanism updating IR notification "FAILED_NOTIFICATION" (distributed) – Normal flow Successful

X	S3703-06	Message-based mechanism updating IR notification "VesselTraffic_RULES_INFRINGEMENT" (distributed) – Normal flow Successful
X	S3703-07	Message-based mechanism updating IR notification "BANNED_SHIP" (distributed) – Normal flow Successful
X	S3703-08	Message-based mechanism updating IR notification "INSURANCE_FAILURE" (distributed) – Normal flow Successful
X	S3703-09	Message-based mechanism updating IR notification "PILOT_PORT_REPORT" (distributed) – Normal flow Successful
X	S3703-10	Message-based mechanism updating IR notification "OTHER" (distributed) – Normal flow Successful
X	S3703-11	Message-based mechanism updating IR notification e.g. "SITREP" (distributed) – IR not found

TC – 3704 Scenarios XML or SOAP interface updating a feedback on IR (Distributed and Not distributed)		
Mandatory for MS	Test Id	Description
X	S3704-01	Message-based mechanism updating feedback on "WASTE" (Not distributed) – Normal flow Successful
--	S3704-02	Message-based mechanism updating feedback on "SITREP" (Not distributed) – Normal flow Successful
--	S3704-03	Message-based mechanism updating feedback on "POLREP" (Not distributed) – Normal flow Successful
--	S3704-04	Message-based mechanism updating feedback on "LOST&FOUND" (Not distributed) – Normal flow Successful
--	S3704-05	Message-based mechanism updating feedback on "FAILED_NOTIFICATION" (distributed) – Normal flow Successful
--	S3704-06	Message-based mechanism updating feedback on "VesselTraffic_RULES_INFRINGEMENT" (distributed) – Normal flow Successful
--	S3704-07	Message-based mechanism updating feedback on "BANNED_SHIP" (distributed) – Normal flow Successful
--	S3704-08	Message-based mechanism updating feedback on "INSURANCE_FAILURE" (distributed) – Normal flow Successful
--	S3704-09	Message-based mechanism updating feedback on "PILOT_PORT_REPORT" (distributed) – Normal flow Successful
--	S3704-10	Message-based mechanism updating feedback on "OTHER" (distributed) – Normal flow Successful
X	S3707-11	Message-based mechanism updating feedback on e.g. "SITREP" (distributed) – Feedback not found

TC – 3705 Scenarios XML or SOAP interface deleting a IR notification (Distributed and Not distributed)		
Mandatory for MS	TestId	Description
X	S3705-01	Message-based mechanism deleting IR notification "WASTE" (distributed) – Normal flow Successful
X	S3705-02	Message-based mechanism deleting IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) – Normal flow Successful
X	S3705-03	Message-based mechanism deleting IR notification "POLREP" (distributed) – POLREP is associated to a SITREP – Normal flow Successful
X	S3705-04	Message-based mechanism deleting IR notification "LOST&FOUND" (distributed) – Normal flow Successful
X	S3705-05	Message-based mechanism deleting IR notification "FAILED_NOTIFICATION" (Not distributed) – Normal flow Successful
X	S3705-06	Message-based mechanism deleting IR notification "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) – Normal flow Successful
X	S3705-07	Message-based mechanism deleting IR notification "BANNED_SHIP" (Not distributed) – Normal flow Successful
X	S3705-08	Message-based mechanism deleting IR notification "INSURANCE_FAILURE" (Not distributed) – Normal flow Successful

X	S3705-09	Message-based mechanism deleting IR notification "PILOT_PORT_REPORT" (Not distributed) – Normal flow Successful
X	S3705-10	Message-based mechanism deleting IR notification "OTHER" (Not distributed) – Normal flow Successful
X	S3705-11	Message-based mechanism deleting IR notification e.g. "SITREP" (Not distributed) – IR not found

TC – 3706 Scenarios XML or SOAP interface deleting a Feedback on IR (Distributed and Not distributed)		
Mandatory for MS	TestId	Description
X	S3706-01	Message-based mechanism deleting feedback on "WASTE" (Not distributed) – Normal flow Successful
--	S3706-02	Message-based mechanism deleting feedback on "SITREP" (Not distributed) – Normal flow Successful
--	S3706-03	Message-based mechanism deleting feedback on "POLREP" (Not distributed) – Normal flow Successful
--	S3706-04	Message-based mechanism deleting feedback on "LOST&FOUND" (Not distributed) – Normal flow Successful
--	S3706-05	Message-based mechanism deleting feedback on "FAILED_NOTIFICATION" (distributed) – Normal flow Successful
--	S3706-06	Message-based mechanism deleting feedback on "VesselTraffic_RULES_INFRINGEMENT" (distributed) – Normal flow Successful
--	S3706-07	Message-based mechanism deleting feedback on "BANNED_SHIP" (distributed) – Normal flow Successful
--	S3706-08	Message-based mechanism deleting feedback on "INSURANCE_FAILURE" (distributed) – Normal flow Successful
--	S3706-09	Message-based mechanism deleting feedback on "PILOT_PORT_REPORT" (distributed) – Normal flow Successful
--	S3706-10	Message-based mechanism deleting feedback on "OTHER" (distributed) – Normal flow Successful
X	S3706-11	Message-based mechanism deleting feedback on e.g. "SITREP" (distributed) – Feedback not found

Regarding the Test Cases TC-3707 which should be implemented and tested at the national SafeSeaNet system level, the Member State shall inform EMSA whether or not their system prevents the provision of these "invalid" messages to the Central SSN system.

TC – 3707 Scenarios XML or SOAP interface sending a notification– Invalid message NOTE: The national systems should not allow sending invalid messages. If an Invalid notification is sent to SSN core the test is 'Failed'.		
Mandatory for MS	TestId	Description
X	S3707-01	Message-based mechanism sending/updating IR – "Feedback" element node not allowed
X	S3707-02	Message-based mechanism sending/updating IR – Invalid "IMO" (<>7 Chars)
X	S3707-03	Message-based mechanism sending/updating IR – Invalid "MMSI" (<>9 Chars)
X	S3707-04	Message-based mechanism sending/updating IR – No attribute "Type"
X	S3707-05	Message-based mechanism sending/updating IR – No attribute "IncidentID"
X	S3707-06	Message-based mechanism sending IR – Same "IncidentID" as a previous one
X	S3707-07	Message-based mechanism sending/updating IR – No attribute "UpdateStatus"

X	S3707-08	Message-based mechanism sending/updating IR – No attributes "IMO" or "MMSI" or "IRNumber_FishingVessel" if "Type"=WasteIncident" – "FailedNotification", "VTSRulesInfringement" – "BannedShip" – "ResultInspection" – "InsuranceFailure" – "PiloOrPortReport"
X	S3707-09	Message-based mechanism sending/updating IR – No attribute "DescribeVessel" if "IMO" or "MMSI" or "IRNumber_FishingVessel" are not provided
X	S3707-10	Message-based mechanism sending/updating IR – No attribute "DistributionIR_yes_no"
X	S3707-11	Message-based mechanism sending/updating IR – No attributes "RecipientCountry" or "IRDistributionToFlagState" if "DistributionIR_yes_no"=YES (if the vessel is identified and EU flag)
X	S3707-12	Message-based mechanism sending/updating IR – No attributes "URL" nor "DocType" if no "LoCode" nor "Phone" nor "Fax" are quoted (if the CargoManifest element is provided)
X	S3707-13	Message-based mechanism sending/updating IR – No attributes "LoCode" nor "Phone" nor "Fax" if "URL" and "DocType" are not quoted (if the CargoManifest element is provided)
X	S3707-14	Message-based mechanism sending/updating IR – No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfIncident" element is provided)
X	S3707-15	Message-based mechanism sending/updating IR – Only one attribute from "Longitude" or "Latitude" is quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfIncident" element is provided)
X	S3707-16	Message-based mechanism sending/updating IR – No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfIncident" element is provided)
X	S3707-17	Message-based mechanism sending/updating IR – No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "ShipPositionAtTimeOfIncident" element is provided)
X	S3707-18	Message-based mechanism sending/updating IR – Only one or two attributes from "Bearing", "Distance" or "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "ShipPositionAtTimeOfIncident" element is provided)
X	S3707-19	Message-based mechanism sending/updating IR – No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfReporting" element is provided)
X	S3707-20	Message-based mechanism sending/updating IR – Only one attribute from "Longitude" or "Latitude" is quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfReporting" element is provided)
X	S3707-21	Message-based mechanism sending/updating IR – No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "ShipPositionAtTimeOfReporting" element is provided)
X	S3707-22	Message-based mechanism sending/updating IR – No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "ShipPositionAtTimeOfReporting" element is provided)
X	S3707-23	Message-based mechanism sending/updating IR – Only one or two attributes from "Bearing", "Distance" or "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "ShipPositionAtTimeOfReporting" element is provided)
X	S3707-24	Message-based mechanism sending/updating IR – No "SSNUserID" attribute is quoted if no "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are provided
X	S3707-25	Message-based mechanism sending/updating IR – No "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are quoted if "SSNUserID" attribute is not provided
X	S3707-26	Message-based mechanism sending/updating IR – Only three or less attributes from "AuthorityName", "LoCode", "Phone" and "Fax" attributes are provided (Element: "IdentificationOfAuthority")
X	S3707-27	Message-based mechanism sending/updating IR – No "DocType" nor "Base64Content" if IR details are not provided via XML (i.e. IncidentDetails element not quoted)

X	S3707-28	Message-based mechanism sending/updating IR (WASTE) – If attribute "Type"=WASTE then all other elements child of IncidentDetail (except "WasteIncidentInformation") are not allowed
X	S3707-29	Message-based mechanism sending/updating IR (SITREP) – If attribute "Type"=SITREP then all other elements child of IncidentDetail (except "SITREPIncidentInformation" and "PlaceOfRefugeInformation") are not allowed
X	S3713-30	Message-based mechanism sending/updating IR (SITREP) – No "MessageType" is quoted
X	S3707-31	Message-based mechanism sending/updating IR (SITREP) – "NotifiedAt" attribute missing or not technically formatted
X	S3707-32	Message-based mechanism sending/updating IR (SITREP) – No "Nature" attribute is quoted
X	S3707-33	Message-based mechanism sending/updating IR (SITREP) – No "J_InitialActionTaken" attribute is quoted
X	S3707-34	Message-based mechanism sending/updating IR (POLREP) – If attribute "Type"=POLREP then all other elements child of IncidentDetail (except "POLREPIncidentInformation") are not allowed
X	S3707-35	Message-based mechanism sending/updating IR (POLREP) – "P1_DateTime" not technically formatted
X	S3707-36	Message-based mechanism sending/updating IR (POLREP) – "P1_DateTime" missing (if "POLINF" elements are not provided)
X	S3707-37	Message-based mechanism sending/updating IR (POLREP)- No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are provided (if "POLINF" element are not provided)
X	S3707-38	Message-based mechanism sending/updating IR (POLREP) – No "Longitude" if "Latitude" is quoted
X	S3707-39	Message-based mechanism sending/updating IR (POLREP) – No "Latitude" if "Longitude" is quoted
X	S3707-40	Message-based mechanism sending/updating IR (POLREP) – No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "POLINF" element are not provided)
X	S3707-41	Message-based mechanism sending/updating IR (POLREP) – No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "POLINF" element are not provided)
X	S3707-42	Message-based mechanism sending/updating IR (POLREP) – Only one or two attributes from "Bearing", "Distance" or "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted
X	S3707-43	Message-based mechanism sending/updating IR (POLREP) – No "UnitOfMeasurementSpeed" if "Direction" is quoted ("P44_Wind" element)
X	S3707-44	Message-based mechanism sending/updating IR (POLREP) – "P40_DateTime" not technically formatted
X	S3707-45	Message-based mechanism sending/updating IR (POLREP) – No "Direction" if "Speed" is quoted ("P44_Wind" element)
X	S3707-46	Message-based mechanism sending/updating IR (POLREP) – No "Speed" if "Direction" is quoted ("P45_Tide" element)
X	S3707-47	Message-based mechanism sending/updating IR (POLREP) – No "Direction" if "Speed" is quoted ("P45_Tide" element)
X	S3707-48	Message-based mechanism sending/updating IR (POLREP) – No "WaveHeight" if "P46_SeaState" element is quoted
X	S3707-49	Message-based mechanism sending/updating IR (POLREP) – No "DriftCourse" if "DriftSpeed" is quoted ("P47_PollutionDrift" element)
X	S3707-50	Message-based mechanism sending/updating IR (POLREP) – No "DriftSpeed" if "DriftCourse" is quoted ("P47_PollutionDrift" element)
X	S3713-51	Message-based mechanism sending/updating IR (POLREP) – No "Name" nor "P50_ActionTaken" if element "P49_ObserverIdentity" is quoted
X	S3707-52	Message-based mechanism sending/updating IR (POLREP) – No "Name" if element "P52_InformedStateOrg" is quoted
X	S3707-53	Message-based mechanism sending/updating IR (LOST&FOUND) – If attribute "Type"=LOSTFOUND then all other elements child of IncidentDetail (except "LostFoundObjectIncidentInformation") are not allowed
X	S3707-54	Message-based mechanism sending/updating IR (LOST&FOUND) – No "DateTimeReportLostFoundObject" attribute
X	S3707-55	Message-based mechanism sending/updating IR (LOST&FOUND) – No "P1_ReportType" attribute

X	S3707-56	Message-based mechanism sending/updating IR (LOST&FOUND) – No attributes "IMO" nor "MMSI" nor "Other"
X	S3707-57	Message-based mechanism sending/updating IR (LOST&FOUND) – No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are provided
X	S3707-58	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Longitude" if "Latitude" is quoted
X	S3707-59	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Latitude" if "Longitude" is quoted
X	S3707-60	Message-based mechanism sending/updating IR (LOST&FOUND) – No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted
X	S3707-61	Message-based mechanism sending/updating IR (LOST&FOUND) – No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted
X	S3707-62	Message-based mechanism sending/updating IR (LOST&FOUND) – Only one or two attributes from "Bearing", "Distance" or "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted
X	S3707-63	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Description" attribute if "Object" element is quoted
X	S3707-64	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Speed" if "Direction" is quoted ("Wind" element)
X	S3707-65	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Direction" if "Speed" is quoted ("Wind" element)
X	S3707-66	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Speed" if "Direction" is quoted ("Tide" element)
X	S3707-67	Message-based mechanism sending/updating IR (LOST&FOUND) – No "Direction" if "Speed" is quoted ("Tide" element)
X	S3707-68	Message-based mechanism sending/updating IR (LOST&FOUND) – No "WaveHeight" if "SeaState" element is quoted
X	S3707-69	Message-based mechanism sending/updating IR (LOST&FOUND) – No "DriftCourse" if "DriftSpeed" is quoted ("ObjectDrift" element)
X	S3707-70	Message-based mechanism sending/updating IR (LOST&FOUND) – No "DriftSpeed" if "DriftCourse" is quoted ("ObjectDrift" element)
X	S3707-71	Message-based mechanism sending/updating IR (FAILED_NOTIFICATION) - If attribute "Type"= FailedNotification then all other elements child of IncidentDetail (except "FailedNotificationIncidentInformation") are not allowed
X	S3707-72	Message-based mechanism sending/updating IR (VesselTraffic_RULES_INFRINGEMENT) - If attribute "Type"= VesselTrafficRulesInfringement then all other elements child of IncidentDetail (except "VesselTrafficRulesInfringementIncidentInformation") are not allowed
X	S3707-73	Message-based mechanism sending/updating IR (BANNED_SHIP) - If attribute "Type"= BannedShip then all other elements child of IncidentDetail (except "BannedShipIncidentInformation") are not allowed
X	S3707-74	Message-based mechanism sending/updating IR (INSURANCE_FAILURE) - If attribute "Type"= InsuranceFailure then all other elements child of IncidentDetail (except "InsuranceFailureIncidentInformation") are not allowed
X	S3707-75	Message-based mechanism sending/updating IR (PILOT_PORT_REPORT) - If attribute "Type"= PilotPort then all other elements child of IncidentDetail (except "PilotPortIncidentInformation") are not allowed
X	S3707-76	Message-based mechanism sending/updating IR (OTHER) - If attribute "Type"= Other then all other elements child of IncidentDetail (except "OtherIncidentInformation") are not allowed
X	S3707-77	Message-based mechanism sending/updating feedback - "Incident" element node not allowed
X	S3707-78	Message-based mechanism sending/updating feedback – No attribute "FeedbackID"
X	S3707-79	Message-based mechanism sending feedback – Same "FeedbackID" than a previous one
X	S3707-80	Message-based mechanism sending/updating feedback – No attribute "IncidentID"
X	S3707-81	Message-based mechanism sending/updating feedback – No attribute "UpdateStatus"
X	S3707-82	Message-based mechanism sending/updating feedback – No attribute "UpdateMSRefID"
X	S3707-83	Message-based mechanism sending/updating feedback – No attribute "DistributionFeedback_yes_no"

X	S3707-84	Message-based mechanism sending/updating feedback – No attributes "RecipientCountry" or "FeedbackDistributionToFlagState" if "DistributionIR_yes_no"=YES (if the vessel is identified and its flag participates to SSN)
X	S3707-85	Message-based mechanism sending/updating feedback – No "SSNUserID" attribute is quoted if no "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are provided
X	S3707-86	Message-based mechanism sending/updating feedback – No "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are quoted if "SSNUserID" attribute is not provided
X	S3707-87	Message-based mechanism sending/updating feedback -Only three or less attributes from "AuthorityName", "LoCode", "Phone" and "Fax" attributes are provided (Element: "IdentificationOfAuthority")
X	S3707-88	Message-based mechanism sending/updating feedback – No "DocType" nor "Base64Content" if IR details are provided as an attached document
X	S3707-89	Message-based mechanism sending/updating feedback – No "DateTimeReportAction" is quoted if "Details" is provided
X	S3707-90	Message-based mechanism sending/updating feedback – No "Details" is quoted if "DateTimeReportAction" is provided
X	S3707-91	Message-based mechanism updating IR: "Type" of the incident cannot be changed
X	S3707-92	Message-based mechanism sending/updating IR. Validation check: a user quoting "Incident" element cannot provide "Feedback" element for the same message
X	S3707-93	Message-based mechanism sending/updating IR. Validation check: a user quoting "Feedback" element cannot provide "Incident" element for the same message

Scenario details

TC – 3701 Scenarios XML or SOAP interface sending new notification– Normal flow successful (Distributed and Not Distributed)			
TestId	Description		
S3701-01	Message-based mechanism sending new IR notification "WASTE" (Distributed) – Normal flow Successful		
S3701-02	Message-based mechanism sending new IR notification "SITREP" (Distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) – Normal flow Successful		
S3701-03	Message-based mechanism sending new IR notification "POLREP" (Distributed) – POLREP is associated to a SITREP – Normal flow Successful		
S3701-04	Message-based mechanism sending new IR notification "LOST&FOUND" (Distributed) – Normal flow Successful		
S3701-05	Message-based mechanism sending new IR notification "FAILED_NOTIFICATION" (Not distributed) – Normal flow Successful		
S3701-06	Message-based mechanism sending new IR notification "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) – Normal flow Successful		
S3701-07	Message-based mechanism sending new IR notification "BANNED_SHIP" (Not distributed) – Normal flow Successful		
S3701-08	Message-based mechanism sending new IR notification "INSURANCE_FAILURE" (Not distributed) – Normal flow Successful		
S3701-09	Message-based mechanism sending new IR notification "PILOT_PORT_REPORT" (Not distributed) – Normal flow Successful		
S3701-10	Message-based mechanism sending new IR notification "OTHER" (Not distributed) – Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN (Distributed or Non-distributed)	Message is sent out	
2	SSN sends back RECEIPT message with status code OK ³	SSN sends back XML message with status code OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents

³ Note: in case an update message is received prior to the message with UpdateStatus="N" then central SSN will register the notification providing to the sender a "warning" and StatusCode="OK".

			of the XML message. SSN stores XML message contents in index dbase.
3	For distributed IR SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formed + valid.	SSN distributes IR to the recipients. Recipient NCAs receive message via XML/SOAP or email depending on their configuration. SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
4	Sender NCA App interprets XML message		
Test Data Distributed			
MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T15:45:58Z" To="SafeSeaNet" From="SOAPUI_V5_DE_IR_NOT_ACK" MSRefId="SOAP_MS_1628005557253"/> <Body> <Notification> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628005557255"/> <IncidentNotificationStatus UpdateStatus="N"/> <IRDistributionDetails DistributionIR_yes_no="Y"> <IRRecipient RecipientCountry="EG"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification <IRVessel_IdentityVerified IMONumber="8433356"/> </IRVesselIdentification> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="12" Latitude="12"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" Email="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIncidentInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08-03T15:24:52Z" Nature="Other" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPIncidentInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not></pre>		
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T15:45:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" MSRefId="SOAP_MS_1628005557253" SSNRefId="957176094" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>		
SSN2MS_IncidentDetail_Tx_Ack	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentDetail_Tx_Ack xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T15:46:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" SSNRefId="SOAP_MS_1628005557253"/></pre>		

	<pre> <Body> <IncidentReportAcknowledged IncidentID="DE_INCI1628005557255" MsRefIDofIRupdate="SOAP_MS_1628005557253"/> <IRorFeedbackRecipients_Ack_list> <SSNparticipant_asIRorFeedbackRecipient RecipientCountry="EG"> <SSN_AuthorityXML SSN_ID_AuthorityXML="SOAPUI_V5_EG_SYS" RecipientXML_Ack="OK"/> </SSNparticipant_asIRorFeedbackRecipient> </IRorFeedbackRecipients_Ack_list> </Body> </SSN2MS_IncidentDetail_Tx_Ack> </pre>
Test Data Not Distributed	
MS2SSN_IncidentDetail_Not	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T15:50:54Z" From="SOAPUI_V5_DE_IR_NOT_ACK" To="SafeSeaNet" MSRefId="SOAP_MS_1628005852929"/> <Body> <Notification> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628005852931"/> <IncidentNotificationStatus UpdateStatus="N"/> <IRDistributionDetails DistributionIR_yes_no="N"> <IRRecipient RecipientCountry="EG"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification <IRVessel_IdentityVerified IMONumber="8433356"/> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" Email="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPInformation> <C_Situation MessageType="Distress" NotifiedAt="2021- 08-03T15:24:52Z" Nature="Other" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T15:50:54Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" MSRefId="SOAP_MS_1628005852929" SSNRefId="957176103" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients."/> </SSN_Receipt> </pre>

TC – 3702 Scenarios XML or SOAP interface sending new Feedback on IR (Distributed on Not distributed)	
TestId	Description
S3702-01	Message-based mechanism sending new feedback on "WASTE" (distributed) – Normal flow Successful
S3702-02	Message-based mechanism sending new feedback on "SITREP" (distributed) – Normal flow Successful
S3702-03	Message-based mechanism sending new feedback on "POLREP" (distributed) – Normal flow Successful

S3702-04	Message-based mechanism sending new feedback on "LOST&FOUND" (distributed) – Normal flow Successful		
S3702-05	Message-based mechanism sending new feedback on "FAILED_NOTIFICATION" (Not distributed) – Normal flow Successful		
S3702-06	Message-based mechanism sending new feedback on "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) – Normal flow Successful		
S3702-07	Message-based mechanism sending new feedback on "BANNED_SHIP" (Not distributed) – Normal flow Successful		
S3702-08	Message-based mechanism sending new feedback on "INSURANCE_FAILURE" (Not distributed) – Normal flow Successful		
S3702-09	Message-based mechanism sending new feedback on "PILOT_PORT_REPORT" (Not distributed) – Normal flow Successful		
S3702-10	Message-based mechanism sending new feedback on "OTHER" (Not distributed) – Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA App retrieves the relevant IR whose feedback has to be provided (e.g. specific query is run)	Relevant IR is retrieved	Users other than the original IR provider have the right to provide feedback.
2	NCA App sends out XML feedback to SSN	Message is sent out	NCA selects the recipient countries in the distribution element (depending on the configuration in the management console).
3	SSN sends back XML message (receipt) with status code=OK	Sender NCA App receives XML message with status code=OK	SSN receives XML message and logs it SSN validates the format of XML message SSN processes the contents of the XML message SSN stores XML message contents in index dbase
4	For distributed Feedback SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formed + valid.	SSN distributes feedbackIR to the recipients. Recipient NCAs receive message via XML/SOAP or email depending on their configuration. SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
5	Sender NCA App interprets XML message		
Test Data Distributed			
MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:01:11Z" From="SOAPUI_V5_DE_IR_NOT_ACK" To="SafeSeaNet" MSRefId="SOAP_MS_1628006470487"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628006160254" IncidentID="DE_INCI1628006160254"/> <FeedbackNotificationStatus UpdateStatus="N"> </FeedbackNotificationStatus> <FeedbackDistribution DistributionFeedback_yes_no="Y" FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="EG"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T15:56:00Z" Details="Action1"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not></pre>		

SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:01:11Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" MSRefId="SOAP_MS_1628006470487" SSNRefId="957176131" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>
SSN2MS_IncidentDetail_Tx_Ack	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentDetail_Tx_Ack xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:02:11Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" SSNRefId="SOAP_MS_1628006470487"/> <Body> <IncidentReportAcknowledged IncidentID="DE_INCI1628006160254" MsRefIDofIRupdate="SOAP_MS_1628006470487"/> <IRorFeedbackRecipients_Ack_list> <SSNparticipant_asIRorFeedbackRecipient RecipientCountry="GR"> <SSN_AuthorityXML SSN_ID_AuthorityXML="ncagrp1r1" RecipientXML_Ack="OK"/> </SSNparticipant_asIRorFeedbackRecipient> </IRorFeedbackRecipients_Ack_list> </Body> </SSN2MS_IncidentDetail_Tx_Ack>
Test Data Not Distributed	
MS2SSN_IncidentDetail_Not	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:08:05Z" From="SOAPUI_V5_DE_IR_NOT_ACK" To="SafeSeaNet" MSRefId="SOAP_MS_1628006879057"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628006160255" IncidentID="DE_INCI1628006160255"/> <FeedbackNotificationStatus UpdateStatus="N"> </FeedbackNotificationStatus> <FeedbackDistribution DistributionFeedback_yes_no="N" FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="EG"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T15:56:00Z" Details="Action1"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:08:06Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT_ACK" MSRefId="SOAP_MS_1628006879057" SSNRefId="957176142" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients."/> </SSN_Receipt>

TC – 3703 Scenarios XML or SOAP interface updating an IR notification (Distributed and Not distributed)	
TestId	Description
S3703-01	Message-based mechanism updating IR notification "WASTE" (Not distributed) – Normal flow Successful
S3703-02	Message-based mechanism updating IR notification "SITREP" (Not distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) – Normal flow Successful – Include PlaceOfRefugeInformation
S3703-03	Message-based mechanism updating IR notification "POLREP" (Not distributed) – POLREP is associated to a SITREP – Normal flow Successful
S3703-04	Message-based mechanism updating IR notification "LOST&FOUND" (Not distributed) – Normal flow Successful
S3703-05	Message-based mechanism updating IR notification "FAILED_NOTIFICATION" (distributed) – Normal flow Successful

S3703-06	Message-based mechanism updating IR notification "VesselTraffic RULES INFRINGEMENT" (distributed) – Normal flow Successful		
S3703-07	Message-based mechanism updating IR notification "BANNED_SHIP" (distributed) – Normal flow Successful		
S3703-08	Message-based mechanism updating IR notification "INSURANCE_FAILURE" (distributed) – Normal flow Successful		
S3703-09	Message-based mechanism updating IR notification "PILOT_PORT_REPORT" (distributed) – Normal flow Successful		
S3703-10	Message-based mechanism updating IR notification "OTHER" (distributed) – Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA retrieves the IR to be modified (e.g. specific query is run)	Relevant IR is retrieved based on the IncidentID	Only the original IR provider has the right to update its IR notification. The data previously sent in the latest IR notification shall be presented.
2a	NCA App sends out XML message to SSN (distributed) with amended data	Message is sent out	The update quotes the same IncidentID as the original IR. The updated message shall include all the details of the original IR (updated attributes and attributes included in the original IR which have not been updated). NCA selects the recipient countries in the distribution element (depending on the configuration in the management console).
2b	NCA App send out XML message to SSN (Non-distributed) with amended data	Message is sent out	The update quotes the same IncidentID than the original IR. The updated message shall include all the details of the original IR (updated attributes and attributes included in the original IR which have not been updated)
3	SSN sends back XML message (receipt) with status code=OK	Sender NCA App receives XML message with status code OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase.
4a	For distributed IR SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formed + valid.	SSN distributes IR to the recipients. Recipient NCAs receive message via XML/SOAP or email depending on their configuration. SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
5	Sender NCA App interprets XML message		
Test Data Distributed			
MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:12:01Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007121132"/> <Body> <Notification> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628007121132"/> <IncidentNotificationStatus UpdateStatus="U"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007121131"/> </IncidentNotificationStatus> <IRDistributionDetails DistributionIR_yes_no="Y" IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not></pre>		

	<pre> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="7203637"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023307"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023321"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority Phone="+30230203" Fax="+3231323" LoCode="GRPIR" AuthorityName="GR"/> Email="test@nomail.com" </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIInformation> <C_Situation Message="Distress" NotifiedAt="2021-08-03T16:12:01Z" Nature="Other" J_InitialActionTaken="Updated actions taken by casualty and RCC"/> </SITREPIInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:12:01Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007121132" SSNRefId="957176149" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>

Test Data Not Distributed	
MS2SSN_IncidentDetail_Not	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:14:18Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007258509"/> <Body> <Notification> <Incident> <IncidentIdentification IncidentID="DE_INCI1628007258509" Type="SITREP" > <IncidentNotificationStatus UpdateStatus="U"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007258508"/> </IncidentNotificationStatus> <IRDistributionDetails IRDistributionToFlagState="N" DistributionIR_yes_no="N" > <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="7203637"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>

	<pre> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023307"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023321"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority Phone="+30230203" AuthorityName="GR"/> Fax="+3231323" LoCode="GRPIR" Email="test@nomail.com" </IdentificationOfAuthority> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIInformation> <C_Situation NotifiedAt="2021-08-03T16:14:18Z" Nature="Other" J_InitialActionTaken="Updated actions taken by casualty and RCC"/> </C_Situation> MessageType="Distress" </SITREPIInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:14:18Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007258509" SSNRefId="957176173" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients."/> </SSN_Receipt> </pre>

TC – 3703 Scenarios XML or SOAP interface updating a IR notification (Distributed)			
TestId	Description		
S3703-11	Message-based mechanism updating IR notification e.g. "SITREP" (distributed) – IR not found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out message to SSN	Message is send out	
2	SSN sends back XML message (receipt) with status code=NOT FOUND		
3	Sender NCA App interprets XML message		

TC – 3704 Scenarios XML or SOAP interface updating a feedback on IR (Distributed and Not distributed)	
TestId	Description
S3704-01	Message-based mechanism updating feedback on "WASTE" (Not distributed) – Normal flow Successful
S3704-02	Message-based mechanism updating feedback on "SITREP" (Not distributed) – Normal flow Successful
S3704-03	Message-based mechanism updating feedback on "POLREP" (Not distributed) – Normal flow Successful
S3704-04	Message-based mechanism updating feedback on "LOST&FOUND" (Not distributed) – Normal flow Successful
S3704-05	Message-based mechanism updating feedback on "FAILED_NOTIFICATION" (distributed) – Normal flow Successful

S3704-06	Message-based mechanism updating feedback on "VesselTraffic_RULES_INFRINGEMENT" (distributed) – Normal flow Successful		
S3704-07	Message-based mechanism updating feedback on "BANNED_SHIP" (distributed) – Normal flow Successful		
S3704-08	Message-based mechanism updating feedback on "INSURANCE_FAILURE" (distributed) – Normal flow Successful		
S3704-09	Message-based mechanism updating feedback on "PILOT_PORT_REPORT" (distributed) – Normal flow Successful		
S3707-10	Message-based mechanism updating feedback on "OTHER" (distributed) – Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA App retrieves the relevant IR whose feedback has to be modified (e.g. specific query is run).	Relevant feedback is retrieved (based on the IncidentID and the FeedbackID)	Only the original feedback provider has the right to update its IR notification. The data previously sent in the latest IR notification shall be presented.
2a	NCA App sends out XML feedback to SSN (Non-distributed) with amended data	Message is sent out	The update quotes the same IncidentID and FeedbackID as the original IR. The updated message shall include all the details of the original IR (updated attributes and attributes included in the original IR which have not been updated).
2b	NCA App sends out XML feedback to SSN (distributed) with amended data	Message is sent out	The update quotes the same IncidentID and FeedbackID as the original IR. The updated message shall include all the details of the original IR (updated attributes and attributes included in the original IR which have not been updated). NCA selects the recipient countries in the distribution element (depending on the configuration in the management console).
3	SSN sends back XML message (receipt) with status code OK	Sender NCA App receives XML message with status code OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase.
4b	For distributed feedback SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formed + valid.	SSN distributes IR to the recipients. Recipient NCAs receive message via XML/SOAP or email depending on their configuration. SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
5	Sender NCA App interprets XML message		
Test Data Distributed			
MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:17:59Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007478999"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628007478999" IncidentID="DE_INCI1628007478999"/> <FeedbackNotificationStatus UpdateStatus="U"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007478998"/> </FeedbackNotificationStatus> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </MS2SSN_IncidentDetail_Not></pre>		

	<pre> <FeedbackDistribution FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="GR"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </IdentificationOfAuthority LoCode="GRPIR" </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T16:17:59Z" </ReportActionDetails Details="Action2"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:18:00Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007478999" SSNRefId="957176200" StatusCode="OK" StatusMessage="The message processed successfully." </Header> </SSN_Receipt> </pre>

Test Data Not Distributed	
MS2SSN_IncidentDetail_Not	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:21:58Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007717721"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628007717721" </FeedbackIdentification> IncidentID="DE_INCI1628007717721"/> <FeedbackNotificationStatus UpdateStatus="U" </FeedbackNotificationStatus> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007717720"/> </UpdateNotifications> <FeedbackDistribution DistributionFeedback_yes_no="N" FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="GR"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </IdentificationOfAuthority LoCode="GRPIR" </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T16:21:58Z" </ReportActionDetails Details="Action2"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:21:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007717721" SSNRefId="957176227" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients." </Header> </SSN_Receipt> </pre>

TC – 3704 Scenarios XML or SOAP interface updating a Feedback on IR (Distributed)			
TestId	Description		
S3704-11	Message-based mechanism updating feedback on e.g. "SITREP" (distributed)– Feedback not found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out message to SSN	Message is send out	

2	SSN sends back XML message (receipt) with status code=NOT FOUND		
3	Sender NCA App interprets XML message		

TC – 3705 Scenarios XML or SOAP interface deleting a IR notification (Distributed and Not distributed)			
TestId	Description		
S3705-01	Message-based mechanism deleting IR notification "WASTE" (distributed) - Normal flow Successful		
S3705-02	Message-based mechanism deleting IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful		
S3705-03	Message-based mechanism deleting IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful		
S3705-04	Message-based mechanism deleting IR notification "LOST&FOUND" (distributed) - Normal flow Successful		
S3705-05	Message-based mechanism deleting IR notification "FAILED_NOTIFICATION" (Not distributed) - Normal flow Successful		
S3705-06	Message-based mechanism deleting IR notification "VesselTraffic_RULES_INFRINGEMENT" (Not distributed) - Normal flow Successful		
S3705-07	Message-based mechanism deleting IR notification "BANNED_SHIP" (Not distributed) - Normal flow Successful		
S3705-08	Message-based mechanism deleting IR notification "INSURANCE_FAILURE" (Not distributed) - Normal flow Successful		
S3705-09	Message-based mechanism deleting IR notification "PILOT_PORT_REPORT" (Not distributed) - Normal flow Successful		
S3705-10	Message-based mechanism deleting IR notification "OTHER" (Not distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA retrieves the IR to be deleted (e.g. specific query is run)	Relevant IR (Non-distributed) is retrieved based on the IncidentID	Only the original IR provider has the right to delete its IR notification
2	NCA App sends out XML message to SSN	Message is sent out	
3	SSN sends back RECEIPT message with status code=OK	SSN sends back XML message with status code OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase. Incident notification is deleted.
4	Sender NCA App interprets XML message		
5	For distributed IR SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formed + valid.	SSN distributes IR to the recipients. Recipient NCAs receive message via XML/SOAP or email depending on their configuration. SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
6	Sender NCA App interprets XML message		
Test Data Distributed			

MS2SSN_IncidentDetail_Not	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:23:46Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007826150"/> <Body> <Notification> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628007826150"/> <IncidentNotificationStatus UpdateStatus="D"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007826149"/> </IncidentNotificationStatus> <IRDistributionDetails DistributionIR_yes_no="Y" IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="7203637"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023307"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023321"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08-03T16:23:46Z" Nature="Other" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:23:46Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007826150" SSNRefId="957176245" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>
Test Data Not Distributed	

MS2SSN_IncidentDetail_Not	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:26:21Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628007981267"/> <Body> <Notification> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628007981267"/> <IncidentNotificationStatus UpdateStatus="D"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628007981266"/> </IncidentNotificationStatus> <IRDistributionDetails DistributionIR_yes_no="N" IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="7203637"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023307"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8023321"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08-03T16:26:21Z" Nature="Other" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </Notification> </Body> </MS2SSN_IncidentDetail_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:26:21Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628007981267" SSNRefId="957176276" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients."/> </SSN_Receipt> </pre>

TC – 3705 Scenarios			
Message-based mechanism deleting a IR notification (Distributed)			
TestId	Description		
S3705-11	Message-based mechanism deleting IR notification e.g. "SITREP" (distributed) – IR not found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out message to SSN	Message is send out	

2	SSN sends back XML message (receipt) with status code=NOT FOUND		
3	Sender NCA App interprets XML message		

TC – 3706 Scenarios XML or SOAP interface deleting a feedback on IR (Distributed and Not distributed)			
TestId	Description		
S3706-01	Message-based mechanism deleting feedback on "WASTE" (Not distributed) - Normal flow Successful		
S3706-02	Message-based mechanism deleting feedback on "SITREP" (Not distributed) - Normal flow Successful		
S3706-03	Message-based mechanism deleting feedback on "POLREP" (Not distributed) - Normal flow Successful		
S3706-04	Message-based mechanism deleting feedback on "LOST&FOUND" (Not distributed) - Normal flow Successful		
S3706-05	Message-based mechanism deleting feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
S3706-06	Message-based mechanism deleting feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
S3706-07	Message-based mechanism deleting feedback on "BANNED_SHIP" (distributed) - Normal flow Successful		
S3706-08	Message-based mechanism deleting feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
S3706-09	Message-based mechanism deleting feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
S3706-10	Message-based mechanism deleting feedback on "OTHER" (distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA retrieves the IR to be modified (e.g. specific query is run)	Relevant IR (distributed) is retrieved based on the IncidentID	Only the original IR provider has the right to delete its IR notification. The data previously sent in the latest IR notification shall be presented.
2	NCA App sends out XML message to SSN (distributed or not distributed) quoting "UpdateStatus=D".	Message is send out	The deletion quotes the same IncidentID as the original IR. The deletion message shall include all the details of the original IR.
3	SSN sends back XML message (receipt) with status code=OK	Sender NCA App receives XML message with status code OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase. Incident notification is deleted.
4	For distributed IR SSN prepares and sends a consolidated XML acknowledgement message	XML message is validated against XML schema / well-formatted+valid	SSN distributes the deletion: <ul style="list-style-type: none"> to the recipients which have previously received the IR (depending on their configuration: via XML/SOAP/email). to the feedback providers (depending on their configuration: via XML/SOAP/email). SSN registers/logs distribution results (OK or NOT OK) for XML/SOAP/email recipients (depending on their configuration in the management console). SSN provides SSN2MS_IncidentDetails_Tx_Ack to the notifier
5	Sender NCA App interprets XML message		
Test Data Distributed			

MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:29:27Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628008167391"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628008167391" IncidentID="DE_INCI1628008167391"/> <FeedbackNotificationStatus UpdateStatus="D"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628008167390"/> </FeedbackNotificationStatus> <FeedbackDistribution DistributionFeedback_yes_no="Y" FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="GR"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T16:29:27Z" Details="Action2"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T16:29:28Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628008167391" SSNRefId="957176304" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>

Test Data Not Distributed	
MS2SSN_IncidentDetail_Not	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentDetail_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T17:59:19Z" From="SOAPUI_V5_DE_IR_NOT" To="SafeSeaNet" MSRefId="SOAP_MS_1628013559398"/> <Body> <Notification> <Feedback> <FeedbackIdentification FeedbackID="DE_FBCK1628013559398" IncidentID="DE_INCI1628013559398"/> <FeedbackNotificationStatus UpdateStatus="D"> <UpdateNotifications UpdateMSRefId="SOAP_MS_1628013559397"/> </FeedbackNotificationStatus> <FeedbackDistribution DistributionFeedback_yes_no="N" FeedbackDistributionToFlagState="N"> <FeedbackRecipient RecipientCountry="GR"/> </FeedbackDistribution> <AuthorityReportingAction> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingAction> <ReportActionDetails DateTimeReportAction="2021-08-03T17:59:19Z" Details="Action2"/> </Feedback> </Notification> </Body> </MS2SSN_IncidentDetail_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T17:59:20Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_NOT" MSRefId="SOAP_MS_1628013559398" SSNRefId="957176341" StatusCode="OK" StatusMessage="Warning: The Incident Details Notification will be not distributed to any recipients."/> </SSN_Receipt></pre>

TC – 3706 Scenarios XML or SOAP interface deleting a feedback on IR (Distributed)			
TestId	Description		
S3706-11	Message-based mechanism deleting feedback on e.g. "SITREP" (Distributed)– Feedback not found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out message to SSN	Message is send out	
2	SSN sends back XML message (receipt) with status code=OK	Sender NCA App receives XML message with status code=OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase. SSN processes the content of the message. Incident/feedback not found: Process stops.
3	SSN sends back XML message (receipt) with status code=NOT FOUND		
4	Sender NCA App interprets XML message		

TC – 3707 Scenarios			
XML or SOAP interface sending a notification– Invalid message			
NOTE: The national systems should not allow sending invalid messages. If an Invalid notification is sent to SSN core the test is 'Failed'.			
TestId	Description		
From S3707-01 to S3713-93			
Step	Action/ input	Result/output	Notes
1	NCA App sends out message to SSN	Message is send out	
2	SSN validates message		
3	SSN sends back the XML message with StatusCode=InvalidFormat		
3	Sender NCA App interprets XML message		

5.2. PROVISION OF EXEMPTION INFORMATION

Use Case Description The data provider will send Exemption Notification to report to the Central SafeSeaNet System details regarding an exemption granted to a ship concerning:

- Pre-arrival notifications (article 4 of Directive 2002/59/EC)
- Notifications of dangerous or polluting goods carried on board (article 13 of Directive 2002/59/EC)
- Notifications of security information (article 6 of Regulation (EC) No 725/2004)
- Advance waste notification (article 6 of Directive EU 2019/883)
- Delivery of waste from ships (article 7(1) of Directive EU 2019/883)
- Waste fee (article 8 of Directive EU 2019/883)
- Number of persons on board (article 4(2) of Directive 98/41/EC)
- Personal information on the persons on board (article 5 of Directive 98/41/EC)

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

User configuration Prior to the launch of the CT for the Exemption Message-based mechanism, all MSs are invited to configure their users (users or Authorities) using the EMSA Identity Management System (IdM) and SSN management console in the training environment.

Users set-up One of the following profiles need to be assigned in the EMSA Identity Management System (IdM) to a system user providing Exemption notifications:

- National SSN System (PRF_NAT_SSN);
- National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 4:

The screenshot shows a web interface titled 'Interface Information'. It contains a table with columns: Protocol, Provider Uri, Requestor Uri, Certificate Name, and Delete. The first row is for 'SOAP' and the second row is for 'XML'. The 'Requestor Uri' field for the 'XML' row is highlighted in yellow.

Figure 4 – XML and SOAP interface setup

Test Cases Each use case being a generic activity can be realized, executed in a number of ways. These are termed use-case realizations or test cases. We distinguish the following test cases for this use case:

Test Case Id	Description
TC1903	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N
TC1904	Message-based mechanism sending Exemption notification - normal flow - UpdateStatus = U and D
TC1905	Message-based mechanism sending Exemption notification - invalid XML message

Test Scenarios

Test Id	Description
S1903-01	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= Pre-Arrival
S1903-02	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= Hazmat
S1903-03	XML interface sendig Exemption notification - normal flow UpdateStatus = N, ExemptionType= Security
S1903-04	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteNotification
S1903-05	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteFees
S1903-06	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteDelivery
S1903-07	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= CrewAndPax
S1903-08	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= CrewAndPaxDerogation
S1904-01	Message-based mechanism sending Exemption notification - Update of Exemption S1903-01 - UpdateStatus = U, Update the validity period of the Exemption
S1904-02	Message-based mechanism sending Exemption notification - Update of Exemption S1903-02 - UpdateStatus = D
S1904-03	Message-based mechanism sending Exemption notification - Update of Exemption S1903-03 - UpdateStatus = U, Update ExemptedPortFacilities
S1904-04	Message-based mechanism sending Exemption notification - Update of Exemption S1903-04 - UpdateStatus = U, Update ExemptedWasteTypes
S1904-05	Message-based mechanism sending Exemption notification - Update of Exemption S1903-07 - UpdateStatus = U, Update Route and Port to which exemption applies to

Scenario details

S1903-01	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= Pre-Arrival
S1903-01	<p>Input: The data provider is sending an MS2SSN_Exemption_Not.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927309286" SentAt="2021-08-02T18:01:49Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927309286" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="Pre-Arrival" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 Email="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:01:49Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927309286"</pre>

	SSNRefId="957175406" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>
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S1903-02	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= Hazmat
Step	Action/Input Result/output
S1903-02	<p>Input: The data provider is sending an MS2SSN_Exemption_Not.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927416685" SentAt="2021-08-02T18:03:36Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927416685" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="Hazmat" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:03:36Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927416685" SSNRefId="957175418" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>

S1903-03	XML interface sendig Exemption notification - normal flow UpdateStatus = N, ExemptionType= Security
S1903-03	<p>Input: The data provider is sending an MS2SSN_Exemption_Not, to include the identification of the port facility(ies).</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926009595" SentAt="2021-08-02T17:40:09Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926009595" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="Security" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:40:09Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926009595" SSNRefId="957175300" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>

S1903-04	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteNotification	
Step	Action/Input	Result/output
S1903-04	<p>Input: The data provider is sending an MS2SSN_Exemption_Not, to include the following:</p> <ul style="list-style-type: none"> the identification of the port(s) where the exemption applies; the identification of the waste type(s) to which the exemption applies in the case of exemptions of type "waste notification", "waste delivery" and "waste fees". <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927656784" SentAt="2021-08-02T18:07:36Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927656784" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="WasteNotification" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptedWasteTypes WasteCode="1300" WasteDescription="Other waste oils"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:07:36Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927656784" SSNRefId="957175441" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

S1903-05	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteFees	
Step	Action/Input	Result/output
S1903-05	<p>Input: The data provider is sending an MS2SSN_Exemption_Not, to include the following:</p> <ul style="list-style-type: none"> the identification of the port(s) where the exemption applies; <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926093179" SentAt="2021-08-02T17:41:33Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926093179" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="WasteFees" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body></pre>	

	</MS2SSN_Exemption_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:41:33Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926093179" SSNRefId="957175314" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>

S1903-06	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= WasteDelivery	
Step	Action/Input	Result/output
S1903-06	Input: The data provider is sending an MS2SSN_Exemption_Not, to include the following: <ul style="list-style-type: none"> the identification of the port(s) where the exemption applies; Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926154735" SentAt="2021-08-02T17:42:34Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926154735" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="WasteDelivery" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:42:34Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926154735" SSNRefId="957175330" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>	

S1903-07	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= CrewAndPax	
Step	Action/Input	Result/output
S1903-07	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927831124" SentAt="2021-08-02T18:10:31Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927831124" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPax" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789"	

	ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:10:31Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927831124" SSNRefId="957175453" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>

S1903-08	Message-based mechanism sending Exemption notification - normal flow UpdateStatus = N, ExemptionType= CrewAndPaxDerogation	
Step	Action/Input	Result/output
S1903-08	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926221633" SentAt="2021-08- 02T17:43:41Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926221633" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPaxDerogation" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:43:41Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926221633" SSNRefId="957175344" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>	

S1904-01	Message-based mechanism sending Exemption notification - Update of Exemption S1903-01 - UpdateStatus = U, Update the validity period of the Exemption	
S1904-01	Input: The data provider is sending an MS2SSN_Exemption_Not, to update: • the validity period of the exemption. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927309287" SentAt="2021-08- 02T18:01:49Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927309286" UpdateStatus="U"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="Pre-Arrival" CompanyName="ii" DateFrom="2021-08-17" DateTo="2021-09-01"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>	

	<pre> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:01:49Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927309287" SSNRefId="957175410" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt> </pre>

S1904-03	Message-based mechanism sending Exemption notification - Update of Exemption S1903-02 - UpdateStatus = D
S1904-03	<p>Input: The data provider is sending an MS2SSN_Exemption_Not, to update:</p> <ul style="list-style-type: none"> list of exempted port facilities. <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927416686" SentAt="2021-08-02T18:03:36Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927416685" UpdateStatus="D"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="Hazmat" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:03:37Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927416686" SSNRefId="957175422" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt> </pre>

S1904-04	Message-based mechanism sending Exemption notification - Update of Exemption S1903-04 - UpdateStatus = U, Update ExemptedWasteTypes
S1904-04	<p>Input: The data provider is sending an MS2SSN_Exemption_Not, to update:</p> <ul style="list-style-type: none"> list of exempted waste types. <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927656785" SentAt="2021-08-02T18:07:36Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927656784" UpdateStatus="D"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="WasteNotification" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptedWasteTypes WasteCode="1301" WasteDescription="Used engine oil"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" </pre>

	ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:07:36Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927656785" SSNRefId="957175446" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>

S1904-05	Message-based mechanism sending Exemption notification - Update of Exemption S1903-07 - UpdateStatus = U, Update Route and Port to which exemption applies to
S1904-05	Input: The data provider is sending an MS2SSN_Exemption_Not, to update: <ul style="list-style-type: none"> • ship Route • Port(s) to which exemption applies to. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627927831125" SentAt="2021-08- 02T18:10:31Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627927831124" UpdateStatus="D"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPax" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="DEHEN"/> <Route Port="DEABL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:10:31Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627927831125" SSNRefId="957175457" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt>

Regarding the Test Case TC-1905 which should be also implemented and tested at the national SafeSeaNet system level, the Member State shall inform EMSA whether or not their system prevents the provision of these "invalid" messages to the Central SSN system. If an Invalid notification is sent to SSN core the notification is rejected.

TC-1904 Scenarios - Invalid scenarios	
Test Id	Description
S1905-01	Message-based mechanism sending Exemption notification – MSRefID repeated
S1905-02	Message-based mechanism sending Exemption notification – no ExemptionId provided
S1905-03	Message-based mechanism sending Exemption notification – no UpdateStatus provided
S1905-04	Message-based mechanism sending Exemption notification – with UpdateStatus = 'U' or 'D' but with an ExemptionId not sent previously
S1905-05	Message-based mechanism sending Exemption notification – with UpdateStatus = 'N' but with an ExemptionId already sent previously
S1905-06	Message-based mechanism sending Exemption notification – VesselIdentification element is not included and UpdateStatus = ('N' or 'U')

S1905-07	Message-based mechanism sending Exemption notification – invalid IMO (less than 7 characters)
S1905-08	Message-based mechanism sending PortPlus notification – no IMO nor MMSI in the vessel identification
S1905-09	Message-based mechanism sending PortPlus notification – with UpdateStatus =('N' or 'U') and the ExemptionDetails element is not included
S1905-10	Message-based mechanism sending PortPlus notification – with the ExemptionDetails element and DateTo before DateFrom

S1905-01	Message-based mechanism sending Exemption notification – MSRefID repeated	
Step	Action/Input	Result/output
S1905-01	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926221633" SentAt="2021-08-02T17:44:38Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926221633" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPaxDerogation" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:44:38Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926221633" SSNRefId="957175350" StatusCode="InvalidFormat" StatusMessage="The message identified by MSRefId [SOAP_MS_1627926221633] has already been registered in SSN (sent by [SOAPUI_V5_XML_DE_SYS])"/></SSN_Receipt></pre>	

S1905-02	Message-based mechanism sending Exemption notification – no ExemptionId provided	
Step	Action/Input	Result/output
S1905-02	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926328015" SentAt="2021-08-02T17:45:28Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPaxDerogation" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>	

	<pre> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:45:28Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175352" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 30; cvc-complex-type.4: Attribute 'ExemptionID' must appear on element 'Exemption'."/></SSN_Receipt> </pre>

S1905-03	Message-based mechanism sending Exemption notification – no UpdateStatus provided	
Step	Action / Input	Result / output
S1905-03	<p>Input: The data provider is sending an MS2SSN_Exemption_Not.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.</p>	
MS2SSN Notification	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926373839" SentAt="2021-08-02T17:46:13Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627926373839" > <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPaxDerogation" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>	
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:46:14Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175354" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 45; cvc-complex-type.4: Attribute 'UpdateStatus' must appear on element 'Exemption'."/></SSN_Receipt> </pre>	

S1905-04	Message-based mechanism sending Exemption notification – with UpdateStatus = 'U' or = 'D' but with an ExemptionId not sent previously	
Step	Action / Input	Result / output
S1905-04	<p>Input: The data provider is sending an MS2SSN_Exemption_Not.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.</p>	
MS2SSN Notification	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627928249839" SentAt="2021-08-02T18:17:29Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627928249838" UpdateStatus="D"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPax" CompanyName="ii" </pre>	

	DateFrom="2021-08-17" DateTo="2021-09-01"> <Route Port="DEHEN"/> <Route Port="DEABL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:17:29Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627928249839" SSNRefId="957175470" StatusCode="InvalidFormat" StatusMessage="Exemption [exemptionId=EXEM1627928249838] not registered in the SSN Central System"/></SSN_Receipt>

S1905-05	Message-based mechanism sending Exemption notification – with UpdateStatus = 'N' but with an ExemptionId already sent previously	
Step	Action/Input	Result/output
S1905-05	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627928311461" SentAt="2021-08-02T18:18:31Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627928298254" UpdateStatus="N"> <VesselIdentification IMONumber="8022913"/> <ExemptionDetails ExemptionType="CrewAndPax" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T18:18:31Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627928311461" SSNRefId="957175478" StatusCode="InvalidFormat" StatusMessage="Exemption [exemptionId=EXEM1627928298254] already registered in the SSN Central System"/></SSN_Receipt>	

S1905-06	Message-based mechanism sending Exemption notification – VesselIdentification element is not included and UpdateStatus = ('N' or 'U')	
Step	Action/Input	Result/output
S1905-06	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627926462637" SentAt="2021-08-02T17:47:42Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/>	

	<pre> <Body> <Exemption ExemptionID="EXEM1627926462637" UpdateStatus="N"> <ExemptionDetails ExemptionType="CrewAndPaxDerogation" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-02T17:47:42Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627926462637" SSNRefId="957175362" StatusCode="InvalidFormat" StatusMessage="A vessel notification must have at least one of IMO or MMSI number"/></SSN_Receipt> </pre>

S1905-07	Message-based mechanism sending Exemption notification – invalid IMO (less than 7 characters)	
Step	Action/Input	Result/output
S1905-07	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627980018027" SentAt="2021-08- 03T08:40:18Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627980018027" UpdateStatus="N"> <VesselIdentification IMONumber="802291"/> <ExemptionDetails ExemptionType="Hazmat" CompanyName="ii" DateFrom="2021- 08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>	
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:40:18Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175589" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 5; columnNumber: 47; cvc-datatype-valid.1.2.3: '802291' is not a valid value of union type 'IMONumberType'."/></SSN_Receipt> </pre>	

S1905-08	Message-based mechanism sending PortPlus notification – no IMO nor MMSI in the vessel identification	
Step	Action/Input	Result/output
S1905-08	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	

MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627980054345" SentAt="2021-08-03T08:40:54Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627980054345" UpdateStatus="N"> <ExemptionDetails ExemptionType="Hazmat" CompanyName="ii" DateFrom="2021-08-02" DateTo="2021-08-17"> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:40:55Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980054345" SSNRefId="957175591" StatusCode="InvalidFormat" StatusMessage="A vessel notification must have at least one of IMO or MMSI number"/></SSN_Receipt></pre>

S1905-09	Message-based mechanism sending PortPlus notification – with UpdateStatus = ('N' or 'U') and the ExemptionDetails element is not included	
Step	Action/Input	Result/output
S1905-13	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627980283916" SentAt="2021-08-03T08:44:43Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627980283916" UpdateStatus="N"> <VesselIdentification IMONumber="8022911"/> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:44:44Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980283916" SSNRefId="957175593" StatusCode="InvalidFormat" StatusMessage="The notification must have quoted exemption details"/></SSN_Receipt></pre>	

S1905-10	Message-based mechanism sending PortPlus notification – with the ExemptionDetails element and DateTo before DateFrom	
Step	Action/Input	Result/output
S1905-14	Input: The data provider is sending an MS2SSN_Exemption_Not. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Not xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" MSRefId="SOAP_MS_1627980334037" SentAt="2021-08-03T08:45:34Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet"/> <Body> <Exemption ExemptionID="EXEM1627980334037" UpdateStatus="N"> <VesselIdentification IMONumber="8022911"/> <ExemptionDetails ExemptionType="Hazmat" CompanyName="ii" DateFrom="2021-08-17" DateTo="2021-08-02"> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not></pre>	

	<pre> <Route Port="GRPIR"/> <Route Port="GRACL"/> <ExemptionAppliesTo Port="DEAAD" /> <Authority AuthorityName="SafeSeaNet" AuthorityType="NCA" Country="DE"/> <Contact247 EMail="test@ed.com" Fax="123456789" ContactName="SafeSeaNet EMSA" LoCode="EUCOM" Phone="12345678" /> </ExemptionDetails> </Exemption> </Body> </MS2SSN_Exemption_Not> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:45:34Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980334037" SSNRefId="957175595" StatusCode="InvalidFormat" StatusMessage="Valid to date must be after Valid from date,The IMO number [8022911] is not valid"/></SSN_Receipt> </pre>

5.3. REQUEST OF PORTPLUS NOTIFICATIONS

Use Case Description

This relates to requesting the details of a ship voyage sent previously to SSN Central system. More specifically, the data requestor will send an MS2SSN_ShipCall_Req message to SSN Central that in return will respond with the SSN2MS_ShipCall_Res message providing the details requested.

As the data provider holds some of the details of a PortPlus notification, SSN will search in its index server to check how to get the details from the data provider (XML) and return the details to the data requester. The tester shall contact the MSS support for details on what data to request for details. The MSS will provide the details of the vessels for which ship call information have previously been reported to SSN Central and can be used for each test scenario.

To test the scenarios defined hereunder for each test case contain the MS2SSN_ShipCall_Req send from the data requestor and the SSN2MS_ShipCall_Res which is expected from the SSN Central in response. The primary scope of these tests is to verify the MS compliance to request in XML the details for a PortPlus notification previously sent to SSN.

One of the following profiles need to be assigned in the EMSA Identity Management System (IdM) to a system user requesting Ship Call details:

- National SSN System (PRF_NAT_SSN);
- National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only;
- Port System (PRF_PORT_SYSTEM) – for port system communicating with SSN.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 5:

Protocol	Provider Url	Requestor Url	Certificate Name	Delete
SOAP				

Figure 5 – SOAP/XML interface setup

Test cases

As each use case is a generic activity, it can be executed in a number of ways, which are termed use-case realisations, or test cases. The following test cases apply to this use case:

Test Case Id	Description
TC- 3601	XML interface requesting ShipCall for ExpectedCallOfSelectedShip
TC- 3602	XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip
TC- 3603	XML interface requesting ShipCall for MostRecentDepartureOfSelectedShip
TC- 3604	XML interface requesting ShipCall for RecentAndCurrentShipCallOfSelectedShips
TC- 3605	XML interface requesting ShipCall for ExpectedShipCallsAtEUPort
TC- 3606	XML interface requesting ShipCall for CurrentShipCallsAtEUPort
TC- 3607	XML interface requesting ShipCall for CompletedShipCallsAtEUPort
TC- 3608	XML interface requesting ShipCall for LatestCallUpdates
TC- 3609	XML interface requesting ShipCall for ListExpectedCallsOfSelectedShip
TC- 3610	XML interface requesting ShipCall for SelectedShipCall
TC- 3611	XML interface requesting ShipCall for GetActiveHazmatForSelectedShip
TC- 3612	XML interface requesting ShipCall for GetActiveSecurityForSelectedShip

Test Case Id	Description
TC- 3613	XML interface requesting ShipCall for GetActiveWasteForSelectedShip
TC- 3614	XML interface requesting ShipCall for GetActiveBunkersForSelectedShip
TC- 3614	XML interface requesting ShipCall for GetActiveCrewAndPaxForSelectedShip

Test Scenarios

The available test cases are further extended into separate test scenarios with different input in order to trigger the validation of additional business processes extending the "normal" flow of events.

Each of the test scenarios can be tested by a valid account belonging to different types of authorities such as NCA, POR, PSC or CST. You have the option to repeat the test scenarios listed below in order to use an account of a different authority type.

Test Id	Description
S3601-01	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get Hazmat details in order to obtain HazmatTowardPortOfCall
S3601-02	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get Waste details
S3601-03	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get Security details
S3601-04	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get Bunkers details
S3601-04	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get CrewAndPax details

Test Id	Description
S3602-01	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Get Hazmat details Response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Hazmat details
S3602-02	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Get Waste details
S3602-03	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Get Security details Response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Security details
S3602-04	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Get Bunkers details Response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Bunkers details
S3602-05	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Get CrewAndPax details Response to ShipCall request for MostRecentArrivalOfSelectedShip – Get CrewAndPax details
S3602-06	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip – Do not Get Hazmat, neither Waste, nor Security, nor Bunkers, nor CrewAndPax details

Test Id	Description
S3603-01	MS2SSN_Req XML interface requesting ShipCall for MostRecentDepartureOfSelectedShip – Get Hazmat details Response to ShipCall request for MostRecentDepartureOfSelectedShip – Get Hazmat details
S3603-02	MS2SSN_Req XML interface requesting ShipCall for MostRecentDepartureOfSelectedShip – Do not Get Hazmat

Test Id	Description
S3604-01	MS2SSN_Req XML interface requesting ShipCall for RecentAndCurrentShipCallOfSelectedShips

Test Id	Description
S3605-01	XML interface requesting ShipCall for ExpectedShipCallsAtEUPort

Test Id	Description
S3606-01	XML interface requesting ShipCall for CurrentShipCallsAtEUPort
S3606-02	XML interface requesting ShipCall for CurrentShipCallsAtEUPort – Not Found: no current ShipCall found for a given port.

Test Id	Description
S3607-01	XML interface requesting ShipCall for CompletedShipCallsAtEUPort

Test Id	Description
S3608-01	XML interface requesting ShipCall for LatestCallUpdates

Test Id	Description
S3609-01	XML interface requesting ShipCall for ListExpectedCallsOfSelectedShip

Test Id	Description
S3610-01	XML interface requesting ShipCall for SelectedShipCall
S3610-02	XML interface requesting ShipCall for SelectedShipCall -- Get Hazmat details
S3610-03	Response to ShipCall request for SelectedShipCall -- Get Hazmat details
S3610-04	XML interface requesting ShipCall for SelectedShipCall -- Get Waste details
S3610-05	XML interface requesting ShipCall for SelectedShipCall -- Get Security details
S3610-06	Response to ShipCall request for SelectedShipCall -- Get Security details
S3610-07	XML interface requesting ShipCall for SelectedShipCall -- Get CrewAndPax details
S3610-08	Response to ShipCall request for SelectedShipCall -- Get CrewAndPax details
S3610-09	XML interface requesting ShipCall for SelectedShipCall -- Get Bunkers details
S3610-10	Response to ShipCall request for SelectedShipCall -- Get Bunkers details

Test Id	Description
S3611-01	XML interface requesting ShipCall for GetActiveHazmatForSelectedShip

Test Id	Description
S3612-01	XML interface requesting ShipCall for GetActiveSecurityForSelectedShip
S3612-02	Response to ShipCall request for GetActiveSecurityForSelectedShip

Test Id	Description
S3613-01	XML interface requesting ShipCall for GetActiveWasteForSelectedShip

Test Id	Description
S3614-01	XML interface requesting ShipCall for GetActiveBunkersForSelectedShip

Test Id	Description
S3615-01	XML interface requesting ShipCall for GetActiveCrewAndPaxForSelectedShip

Scenario Details

The detailed description of each scenario consists of:

- Step number
- The action required from the NCA application
- The expected result from the EIS
- Checkpoints

When performing the test, add in the commissioning test report:

- Actual result
- Comments (if any)

When testing the XML interface normal flow, a valid XML message with the correct data must be supplied.

To test the invalid XML message flow, you must provide an XML message containing invalid data to trigger an SSN_Receipt invalid.

For each test scenario the XML messages in and out are described in detail in the XML Reference Guide document:

- Receipt acknowledgement: SSN_Receipt
- Response to a Request for details: SSN2MS_ShipCall_Res

S3601-01	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip– Get Hazmat details in order to obtain HazmatTowardPortOfCall (a)	
S3601-02	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip Get Waste details	
S3601-03	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip– Get Security details	
S3601-04	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get Bunkers details	
S3601-04	MS2SSN_Req XML interface requesting ShipCall for ExpectedCallOfSelectedShip – Get CrewAndPax details	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
5e	SSN cannot process XML message	Invalid parameters
5f	SSN cannot process XML message	Notification not found
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details (including Hazmat/Waste/Security/Bunkers/CrewAndPax details) to NCA App	
9d	SSN forwards XML message with notification details (no Hazmat/Waste/Security/Bunkers/CrewAndPax details) to NCA App	
9e	SSN sends back XML message with status code InvalidFormat	
9f	SSN sends back XML message with status code NotFound	
10a, d	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid

10e	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
10f	NCA App receives XML message with status code NotFound	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3601-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:12:42Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628071961080" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="ExpectedCallOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:12:41Z"/> <ShipIdentificationCriteria MMSINumber="267250000"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:12:42Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628071961080" SSNRefId="957176826" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:12:42Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628071961080" SSNRefId="SOAP_MS_1628071961080" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="ExpectedCallOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:12:41Z"/> <ShipIdentificationCriteria MMSINumber="267250000" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:12:41Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628071961082" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-03T15:12:41Z" NextPort="DEHIE" ETAToNextPort="2021-08-04T11:12:41Z" ETDFromPortOfCall="2021-08-04T10:12:41Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <HazmatInformation> <HazmatSummary INFShipClass="INF2"></pre>	

	<pre> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SC_REQ_ALL" LastUpdateReceivedAt="2021-08- 04T10:12:42Z" ShipCallId="SHCL_1628071961082"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25.0" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="test"/> <SubsidiaryRisks SubsidiaryRisk="testrisk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100.0"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200.0"/> <TransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400.0"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="120"> <QuantityGross UnitOfMeasurement="M3" Quantity="900.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="700.0"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> <CargoManifest> <UrlDetails Url="http://localhost:7200/ssn-xmlprotocol- web/ssndocuments.do?msRefId=SOAP_MS_16280719610801" DocType="PDF"/> </CargoManifest> </HazmatInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3602-01	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Get Hazmat details (a)	
S3602-02	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Get Waste details (a)	
S3602-03	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Get Security details (a)	
S3602-04	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Get Bunkers details (a)	
S3602-05	MS2SSN_Req XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Get CrewAndPax details (a)	
S3602-06	XML interface requesting ShipCall for MostRecentArrivalOfSelectedShip- Do not Get Hazmat neither Waste nor Security, nor Bunkers, nor CrewAndPax details (b)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
5e	SSN cannot process XML message	Invalid parameters

9a	SSN forwards XML message with notification details (including Hazmat/Waste/Security details) to NCA App	
9b	SSN forwards XML message with notification details (no Hazmat/Waste/Security details) to NCA App	
10a, b	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3602-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:02:57Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628071375314" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="MostRecentArrivalOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:02:55Z"/> <ShipIdentificationCriteria MMSINumber="267250000"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:02:57Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628071375314" SSNRefId="957176794" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T10:02:57Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628071375314" SSNRefId="SOAP_MS_1628071375314" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="MostRecentArrivalOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:02:55Z"/> <ShipIdentificationCriteria MMSINumber="267250000" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:02:55Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628071375316" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" NextPort="DEHIE" ETAToNextPort="2021-08-04T01:02:55Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance"</pre>	

	<pre> ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T13:02:55Z" Anchorage="N"/> <DepartureNotificationDetails ATDPortOfCall="2021-08- 04T01:02:55Z"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SC_REQ_ALL" LastUpdateReceivedAt="2021-08- 04T10:02:57Z" ShipCallId="SHCL_1628071375316"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25.0" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="test"/> <SubsidiaryRisks SubsidiaryRisk="testrisk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100.0"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200.0"/> <TransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400.0"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="120"> <QuantityGross UnitOfMeasurement="M3" Quantity="900.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="700.0"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> <CargoManifest> <UrlDetails Url="http://localhost:7200/ssn- xmlprotocol-web/ssndocuments.do?msRefId=SOAP_MS_16280713753141" DocType="PDF"/> </CargoManifest> </HazmatInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3602-01	Message-based mechanism response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Hazmat details(d)	
S3602-03	Message-based mechanism response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Security details (e)	
S3602-04	Message-based mechanism response to ShipCall request for MostRecentArrivalOfSelectedShip – Get Bunkers details (f)	
S3602-05	Message-based mechanism response to ShipCall request for MostRecentArrivalOfSelectedShip – Get CrewAndPax details (g)	
Step	Action/ Input	Result/ output
1	Login.	Login Success.
2	Select the Find Information > Voyage/Ship Information > Ship information for selected period >	Displays the Search form.

	Current port of call, including Hazmat (based on ATA)	
3	Enter the vessel identification criteria - mandatory. Press the Search button. Select a vessel from the list by clicking on its IMO number hyperlink. Adjust the time period criteria if needed.	A list of vessels that match the identification criteria is displayed.
4(d)	Select Get Hazmat = "Hazmat Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
4(e)	Select Get Security = "Security Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
4(f)	Select Get Bunkers = "Bunkers Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
4(g)	Select Get CrewAndPax = "CrewAndPax Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
Click on the Details icon.	A SSN2MS_ShipCall_Req will be sent out	
6	SSN establishes connection with data provider NCA App	Connection established
7	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8	NCA App sends back XML message with latest details	
9	SSN processes XML message with notification details (including Hazmat details) from NCA App	
10	NCA App ends activity	
Sample XML messages		
S3602-01	Input: SSN2MS_ShipCall_Req from SSN for MostRecentArrivalOfSelectedShip - Get Hazmat details. Output: MS2SSN_ShipCall_Res from the data provider.	
SSN2MS Request	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:02:57Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957176796" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628071375316" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req></pre>	
MS2SSN Response	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:02:57Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628071375313" SSNRefId="957176796" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628071375316" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults></pre>	

	<pre> <VesselIdentification IMONumber="7627479" MMSINumber="267250000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T01:02:55Z" ETAToPortOfCall="2021-08-03T13:02:55Z" ETAToNextPort="2021-08-04T01:02:55Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628071375316"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SC_REQ_ALL" LastUpdateReceivedAt="2021-08- 04T10:02:57Z"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="test"/> <SubsidiaryRisks SubsidiaryRisk="testrisk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200"/> <TransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="TEST" NoOfPackages="120"> <QuantityNet UnitOfMeasurement="M3" Quantity="700"/> <QuantityGross UnitOfMeasurement="M3" Quantity="900"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> </HazmatInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
Sample XML messages	
S3602-03	<p>Input: SSN2MS_ShipCall_Req from SSN for MostRecentArrivalOfSelectedShip – Get Security details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:24:27Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957176881" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetSecurity="SecurityDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628072665897"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>

MS2SSN Response	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:24:27Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628072665894" SSNRefId="957176881" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628072665897" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="7627479" MMSINumber="267250000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T01:24:25Z" ETAToPortOfCall="2021-08-03T13:24:25Z" ETAToNextPort="2021-08-04T01:24:25Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628072665897"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <SecurityInformation> <SecuritySummary CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" EMail="email@email.com" Fax="+123456789" Phone="+987654321"/> </SecuritySummary> <SecurityDetails ValidISSC="N" ReasonForNoValidISSC="reason for no valid ISSC" ApprovedSecurityPlan="Y" SecurityRelatedMatterToReport="security matter"> <Source ProviderOfLastUpdate="SOAPUI_DE_SYS" LastUpdateReceivedAt="2021-08-02T11:16:44Z"/> <CSO FirstName="cso name" LastName="cso last name" Phone="+987654321" Fax="+123456789" EMail="email@email.com"/> </SecurityDetails> </SecurityInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res></pre>
Sample XML messages	
S3602-04	<p>Input: SSN2MS_ShipCall_Req from SSN for MostRecentArrivalOfSelectedShip – Get Bunkers details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:28:49Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957176905" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetBunkers="BunkersDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628072928530" GetBunkersType="BunkersTowardsPortOfCall"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req></pre>
MS2SSN Response	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:28:49Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628072928527" SSNRefId="957176905" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="267250000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628072928530"</pre>

	<pre> GetHazardType="HazardTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="7627479" MMSINumber="267250000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T01:28:48Z" ETAToPortOfCall="2021-08-03T13:28:48Z" ETAToNextPort="2021-08-04T01:28:48Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628072928530"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <BunkersInformation> <BunkerItem BunkerType="MGO" Quantity="125.7" UnitOfMeasurement="M3"/> </BunkersInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
Sample XML messages	
S3602-05	<p>Input: SSN2MS_ShipCall_Req from SSN for MostRecentArrivalOfSelectedShip – Get CrewAndPax details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:30:51Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_NOT_CP" SSNRefId="957176916" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_PORT_REQ_CP"/> <RequiredResponseCriteria> <ShipCallResp GetCrewAndPax="CrewAndPaxDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="258089000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628073049175" GetCrewAndPaxType="CrewAndPaxOnArrival"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>
MS2SSN Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T10:30:51Z" From="SOAPUI_V5_DE_PORT_NOT_CP" To="SafeSeaNet" MSRefId="SOAP_MS_1628073049172" SSNRefId="957176916" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazard="HazardDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="258089000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628073049175" GetHazardType="HazardTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="5008679" MMSINumber="258089000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T01:30:49Z" ETAToPortOfCall="2021-08-03T13:30:49Z" ETAToNextPort="2021-08-04T01:30:49Z" LastPort="DEHEI" NextPort="DEAAD" PortOfCall="DEBON" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628073049175"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <CrewAndPaxInformation> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_REQ_CP" LastUpdateReceivedAt="2021-08-04T10:30:51Z"/> <CrewAndPaxSummary NumberOfCrew="1" NumberOfPassengers="1"/> </CrewAndPaxInformation> <CrewInformation> <CrewMember LastName="LastName1" FirstName="FirstName1" Nationality="DE" DateOfBirth="1982-01-10" Gender="0"/> </CrewInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>

	<pre> <PassengerInformation> <Passenger LastName="LastName2" FirstName="FirstName2" Nationality="GR" DateOfBirth="1985-01-10" Gender="0"/> </PassengerInformation> </CrewAndPaxInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
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S3603-01	MS2SSN_Req XML interface requesting ShipCall for MostRecentDepartureOfSelectedShip – Get Hazmat details (a)	
S3603-02	XML interface requesting ShipCall for MostRecentDepartureOfSelectedShip – Do not Get Hazmat (b)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
5c	SSN cannot process XML message	Invalid parameters
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details (including Hazmat/Waste/Security details) to NCA App	
9b	SSN forwards XML message with notification details (no Hazmat) to NCA App	
10a, b	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3603-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:02:10Z" From="SOAPUI_V5_DE_PORT_REQ_CP" To="SafeSeaNet" MSRefId="SOAP_MS_1628078529343" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="MostRecentDepartureOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-04T02:02:09Z"/> <ShipIdentificationCriteria MMSINumber="258089000"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req> </pre>	
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:02:10Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_REQ_CP" MSRefId="SOAP_MS_1628078529343" </pre>	

	SSNRefId="957176983" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>
SSN2MS Response	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:02:11Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_REQ_CP" MSRefId="SOAP_MS_1628078529343" SSNRefId="SOAP_MS_1628078529343" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="MostRecentDepartureOfSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-04T02:02:09Z"/> <ShipIdentificationCriteria MMSINumber="258089000" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_NOT_CP" LastUpdateReceivedAt="2021-08-04T12:02:09Z"/> <VesselIdentification IMONumber="5008679" MMSINumber="258089000" CallSign="LCUG" ShipName="KARM HANNAH"/> <VoyageInformation ShipCallId="UNIDENTIFIED" LastPort="DEBON" PortOfCall="DEAAD" ETDFromLastPort="2021-08-04T00:02:09Z" ETAToPortOfCall="2021-08-03T23:01:03Z"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="456"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_REQ_CP" LastUpdateReceivedAt="2021-08-04T12:02:10Z" ShipCallId="SHCL_1628078529345"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25.0" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="123"/> <SubsidiaryRisks SubsidiaryRisk="risk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100.0"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200.0"/> <TransportEquipmentUnit LocationOnBoard="TLocation" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400.0"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="NonTLocation" NoOfPackages="120"> <QuantityGross UnitOfMeasurement="M3" Quantity="900.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="700.0"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> <CargoManifest> <UrlDetails Url="http://localhost:7200/ssn-xmlprotocol-web/ssndocuments.do?msRefId=SOAP_MS_16280785293431" DocType="PDF"/>

	</CargoManifest> </HazardInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res>	
S3603-01	Message-based mechanism response to ShipCall request for MostRecentDepartureOfSelectedShip – Get Hazmat details	
Step	Action / Input	Result / output
1	Login.	Login Success.
2	Select the Find Information > Voyage/Ship Information > Ship information for selected period > Last port of call, including hazmat (based on ATD)	Displays the Search form.
3	Enter the vessel identification criteria - mandatory. Press the Search button. Select a vessel from the list by clicking on its IMO number hyperlink. Adjust the time period criteria if needed.	A list of vessels that match the identification criteria is displayed.
4	Select Get Hazmat = "Hazmat Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
Click on the Details icon.	A SSN2MS_ShipCall_Req will be sent out	
6	SSN establishes connection with data provider NCA App	Connection established
7	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8	NCA App sends back XML message with latest details	
9	SSN processes XML message with notification details (including Hazmat details) from NCA App	
10	NCA App ends activity	
Sample XML messages		
	Input: SSN2MS_ShipCall_Req from SSN for MostRecentDepartureOfSelectedShip – Get Hazmat details. Output: MS2SSN_ShipCall_Res from the data provider.	
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:02:10Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_NOT_CP" SSNRefId="957176985" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_PORT_REQ_CP"/> <RequiredResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="258089000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628078529345" GetHazmatType="HazmatTowardNextPort"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>	
	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:02:10Z" </pre>	

Response	<pre> From="SOAPUI_V5_DE_PORT_NOT_CP" To="SafeSeaNet" MSRefId="SOAP_MS_1628078529342" SSNRefId="957176985" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria MMSINumber="258089000"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628078529345" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="5008679" MMSINumber="258089000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T00:02:09Z" ETAToPortOfCall="2021-08-03T16:02:09Z" ETAToNextPort="2021-08-04T00:02:09Z" LastPort="DEHEI" NextPort="DEAAD" PortOfCall="DEBON" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628078529345"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_REQ_CP" LastUpdateReceivedAt="2021-08- 04T12:02:10Z"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="123"/> <SubsidiaryRisks SubsidiaryRisk="risk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200"/> <TransportEquipmentUnit LocationOnBoard="TLocation" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="NonTLocation" NoOfPackages="120"> <QuantityNet UnitOfMeasurement="M3" Quantity="700"/> <QuantityGross UnitOfMeasurement="M3" Quantity="900"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> </HazmatInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
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S3604-01	XML interface requesting ShipCall for RecentAndCurrentShipCallofSelectedShips (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced

4	SSN processes information source accessibility	
5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN forwards XML message with notification details (including Hazmat details) to NCA App	
6b	SSN sends back XML message with status code InvalidFormat	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
7b	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
8	NCA App ends activity	
Sample XML messages		
S3604-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:10:00Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628078998820" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="RecentAndCurrentShipCallsOfSelectedShip"/> <SearchCriteria> <ShipIdentificationCriteria IMONumber="5010464"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:10:00Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628078998820" SSNRefId="957177002" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:10:00Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628078998820" SSNRefId="SOAP_MS_1628078998820" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="RecentAndCurrentShipCallsOfSelectedShip"/> <SearchCriteria> <TimePeriodCriteria/> <ShipIdentificationCriteria IMONumber="5010464" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:09:58Z"/> <VesselIdentification IMONumber="5010464" ShipName="NEPTUNE"/> <VoyageInformation ShipCallId="SHCL_1628078998822" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance"</pre>	

	<pre> ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T12:09:58Z" Anchorage="N"/> <DepartureNotificationDetails ATDPortOfCall="2021-08- 08T12:09:58Z"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:07:44Z"/> <VesselIdentification IMONumber="5010464" ShipName="NEPTUNE"/> <VoyageInformation ShipCallId="SHCL_1628078863999" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T12:07:44Z" Anchorage="N"/> <DepartureNotificationDetails ATDPortOfCall="2021-08- 08T12:07:44Z"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3605-01 XML interface requesting ShipCall for ExpectedShipCallsAtEUPort (a)		
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes information source accessibility	
5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN forwards XML message with notification details to NCA App	
6b	SSN sends back XML message with status code InvalidFormat	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
8	NCA App ends activity	
Sample XML messages		
S3605-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".</p>	
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:11:57Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079116590" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="ExpectedShipCallsAtEUPort"/> </pre>	

	<pre> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T12:11:56Z" EndDateTime="2021-08-07T12:11:56Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHEN"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:11:57Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079116590" SSNRefId="957177018" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>
SSN2MS Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:11:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079116590" SSNRefId="SOAP_MS_1628079116590" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="ExpectedShipCallsAtEUPort"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T12:11:56Z" EndDateTime="2021-08-07T12:11:56Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHEN"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:11:46Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079106823" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-06T12:11:46Z" ETDFromPortOfCall="2021-08- 08T12:11:46Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:11:56Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079116592" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-06T12:11:56Z" ETDFromPortOfCall="2021-08- 08T12:11:56Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>

S3606-01	XML interface requesting ShipCall for CurrentShipCallsAtEUPort (a)	
S3606-02	XML interface requesting ShipCall for CurrentShipCallsAtEUPort – Not Found: no current ShipCall found for a given port. (d)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes information source accessibility	
5a	Data found	
6a	SSN forwards XML message with notification details to NCA App	
6d	SSN sends back XML message with status code NotFound	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
7d	NCA App receives XML message with status code NotFound	XML message is validated against XML schema / well-formed + valid
8	NCA App ends activity	
Sample XML messages		
S3606-04	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:13:49Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079228462" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="CurrentShipCallsAtEUPort"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T12:13:48Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHEN"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:13:49Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079228462" SSNRefId="957177034" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:13:49Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079228462" SSNRefId="SOAP_MS_1628079228462" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="CurrentShipCallsAtEUPort"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T12:13:48Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHEN"/> </SearchCriteria> </ProvidedResponseCriteria> </Body> </SSN2MS_ShipCall_Res></pre>	

	<pre> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:22:38Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628072558947" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" NextPort="DEHIE" ETAToNextPort="2021-08-04T02:22:38Z" ETDFromPortOfCall="2021-08-04T01:22:38Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T13:22:38Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:24:00Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628072640889" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" NextPort="DEHIE" ETAToNextPort="2021-08-04T02:24:00Z" ETDFromPortOfCall="2021-08-04T01:24:00Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T13:24:00Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <SecurityConfirmation CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" Phone="+23456789" Fax="+23456789" EMail="theemail@mail.com"/> </SecurityConfirmation> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:24:25Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628072665897" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" NextPort="DEHIE" ETAToNextPort="2021-08-04T02:24:25Z" ETDFromPortOfCall="2021-08-04T01:24:25Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T13:24:25Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <SecurityConfirmation CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" Phone="+23456789" Fax="+23456789" EMail="theemail@mail.com"/> </SecurityConfirmation> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:28:48Z"/> <VesselIdentification IMONumber="7627479" MMSINumber="267250000" CallSign="OMNJ" ShipName="NEVY"/> <VoyageInformation ShipCallId="SHCL_1628072928530" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" NextPort="DEHIE" ETAToNextPort="2021-08-04T02:28:48Z" </pre>
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	<pre> ETDFromPortOfCall="2021-08-04T01:28:48Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T13:28:48Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <BunkersConfirmation BunkersReportedYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:13:46Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079226633" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromPortOfCall="2021-08-05T12:13:46Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-04T12:13:46Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:13:48Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079228464" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromPortOfCall="2021-08-05T12:13:48Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-04T12:13:48Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3607-01	XML interface requesting ShipCall for CompletedShipCallsAtEUPort (a)	
Step	Action / Input	Result / output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes information source accessibility	
5a	Data found	
6a	SSN forwards XML message with notification details (including Hazmat details) to NCA App	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid

8	NCA App ends activity	
Sample XML messages		
S3607-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:15:51Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079350289" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="CompletedShipCallsAtEUPort"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T16:15:50Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHLH"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:15:51Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079350289" SSNRefId="957177050" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:15:51Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079350289" SSNRefId="SOAP_MS_1628079350289" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="CompletedShipCallsAtEUPort"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T16:15:50Z"/> <PortOfCallIdentificationCriteria PortOfCall="DEHLH"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021- 08-04T12:15:40Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079340750" LastPort="DEHEI" PortOfCall="DEHLH" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T15:15:40Z" Anchorage="N"/> <DepartureNotificationDetails ATDPortOfCall="2021-08-04T03:15:40Z"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021- 08-04T12:15:50Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079350291" LastPort="DEHEI"</pre>	

	PortOfCall="DEHLH" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T15:15:50Z" Anchorage="N"/> <DepartureNotificationDetails ATDPortOfCall="2021-08-04T03:15:50Z"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res>
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S3608-01	XML interface requesting ShipCall for LatestCallUpdates (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes information source accessibility	
5a	Data found	
6a	SSN forwards XML message with notification details (including Hazmat details) to NCA App	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
8	NCA App ends activity	
Sample XML messages		
S3608-01	Precondition: A ShipCall for a vessel exists. Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".	
MS2SSN Request	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:17:41Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079456394" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="LatestCallUpdates"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-04T12:17:26Z" EndDateTime="2021-08-04T12:17:41Z"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:17:41Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079456394" SSNRefId="957177058" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>	
SSN2MS Response	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:17:41Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079456394"	

	<pre> SSNRefId="SOAP_MS_1628079456394" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="LatestCallUpdates"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-04T12:17:26Z" EndDateTime="2021-08-04T12:17:41Z"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:17:36Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079456396" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-05T12:17:36Z" ETDFromPortOfCall="2021-08- 07T12:17:36Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3609-01	XML interface requesting ShipCall for ListExpectedCallsOfSelectedShip (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes information source accessibility	
5a	Data found	
6a	SSN forwards XML message with notification details (including Hazmat details) to NCA App	
7a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
8	NCA App ends activity	
Sample XML messages		
S3609-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:19:31Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079570181" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="ListExpectedCallsOfSelectedShip"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T12:19:30Z"/> <ShipIdentificationCriteria IMONumber="9078476"/> </SearchCriteria> </RequiredResponseCriteria> </pre>	

	</Body> </MS2SSN_ShipCall_Req>
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:19:31Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079570181" SSNRefId="957177066" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>
SSN2MS Response	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:19:31Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079570181" SSNRefId="SOAP_MS_1628079570181" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="ListExpectedCallsOfSelectedShip"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T12:19:30Z"/> <ShipIdentificationCriteria IMONumber="9078476" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:11:46Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079106823" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-06T12:11:46Z" ETDFromPortOfCall="2021-08- 08T12:11:46Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:11:56Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079116592" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-06T12:11:56Z" ETDFromPortOfCall="2021-08- 08T12:11:56Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:19:30Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079570183" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-06T12:19:30Z" ETDFromPortOfCall="2021-08- 07T12:19:30Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation>

	<pre> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T10:28:28Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="UNIDENTIFIED" LastPort="DEHEN" PortOfCall="DEHIE" ETDFromLastPort="2021-08-06T10:28:28Z" ETAToPortOfCall="2021-08- 07T10:28:28Z"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3610-01	XML interface requesting ShipCall for SelectedShipCall (a)
S3610-02	XML interface requesting ShipCall for SelectedShipCall -- Get Hazmat details (details in req/res XML) (a)
S3610-03	XML interface requesting ShipCall for SelectedShipCall -- Get Waste details (details in req/res XML) (a)
S3610-04	XML interface requesting ShipCall for SelectedShipCall -- Get Security details (details in req/res XML) (a)
S3610-05	XML interface requesting ShipCall for SelectedShipCall -- Get CrewAndPax details (details in req/res XML) (a)
S3610-06	XML interface requesting ShipCall for SelectedShipCall -- Get Bunkers details (details in req/res XML) (a)

Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details (including Hazmat/Waste/Security/Bunkers/CrewAndPax details) to NCA App	
10a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	

Sample XML messages

S3610-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel with ShipCallID="shipCallIdTEST001".</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:24:37Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628079875872" TimeoutValue="60"/> </pre>

	<pre> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="SelectedShipCall" GetHazmat="HazmatSummary"/> <SearchCriteria> <ShipCallIdentificationCriteria ShipCallId="SHCL_1628079875874"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:24:37Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079875872" SSNRefId="957177103" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>
SSN2MS Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T12:24:37Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628079875872" SSNRefId="SOAP_MS_1628079875872" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="SelectedShipCall" GetHazmat="HazmatSummary"/> <SearchCriteria> <TimePeriodCriteria/> <ShipCallIdentificationCriteria ShipCallId="SHCL_1628079875874"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T12:24:35Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628079875874" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromLastPort="2021-08-04T12:24:35Z" ETAToPortOfCall="2021-08- 05T12:24:35Z" NextPort="DEABL" ETDFromPortOfCall="2021-08-06T12:24:35Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <CargoManifest> <UriDetails Url="http://localhost:7200/ssn- xmlprotocol-web/ssndocuments.do?msRefId=SOAP_MS_16280798758721" DocType="PDF"/> </CargoManifest> </HazmatInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>

S3610-02	Message-based mechanism response to ShipCall request for SelectedShipCall – Get Hazmat details (c)
S3610-04	Message-based mechanism response to ShipCall request for SelectedShipCall – Get Security details (d)

S3610-05	Message-based mechanism response to ShipCall request for SelectedShipCall – Get CrewAndPax details (e)	
S3610-06	Message-based mechanism response to ShipCall request for SelectedShipCall – Get Bunkers details (f)	
Step	Action/Input	Result/output
1	Login.	Login Success.
2	Select the Find Information > Voyage/Ship Information > Other queries > Based on ShipCallId	Displays the Search form.
3	Enter the shipCallId - mandatory.	
4 (c)	Select Get Hazmat = "Hazmat Details" Press the Search button.	The system shall list the ship call based on the search criteria.
4 (d)	Select Get Security = "Security Details" Press the Search button.	The system shall list the ship call based on the search criteria.
4 (e)	Select Get CrewAndPax = "CrewAndPax Details" Press the Search button.	The system shall list the ship call based on the search criteria.
4 (f)	Select Get Bunkers = "Bunkers Details" Press the Search button.	The system shall list the ship call based on the search criteria.
5	Click on the Details icon.	A SSN2MS_ShipCall_Req will be send out.
6	SSN establishes connection with data provider NCA App	Connection established
7	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8	NCA App sends back XML message with latest details	
9	SSN processes XML message with notification details (including Hazmat details) from NCA App	
10	NCA App ends activity	
Sample XML messages		
S3610-02	Input: SSN2MS_ShipCall_Req from SSN for SelectedShipCall – Get Hazmat details. Output: MS2SSN_ShipCall_Res from the data provider.	
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:32:44Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957177133" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080363660" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>	
MS2SSN Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:32:45Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628080363657" SSNRefId="957177133" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080363660" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="7627479" MMSINumber="267250000"/> <VoyageInformation ETDFromPortOfCall="2021-08-04T00:32:43Z" ETAToPortOfCall="2021-08-03T16:32:43Z" ETAToNextPort="2021-08-04T00:32:43Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628080363660"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>	

	<pre> </VoyageInformation> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SC_REQ_ALL" LastUpdateReceivedAt="2021-08- 04T12:32:45Z"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="ems"/> <SubsidiaryRisks SubsidiaryRisk="testRisk"/> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200"/> <TransportEquipmentUnit LocationOnBoard="TLocation" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="NonTLocation" NoOfPackages="120"> <QuantityNet UnitOfMeasurement="M3" Quantity="700"/> <QuantityGross UnitOfMeasurement="M3" Quantity="900"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> </HazmatInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
S3610-04	<p>Input: SSN2MS_ShipCall_Req from SSN for SelectedShipCall – Get Security details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:36:47Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957177152" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetSecurity="SecurityDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080606042"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>
MS2SSN Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:36:47Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628080606039" SSNRefId="957177152" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetSecurity="SecurityDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080606042"/> </SearchCriteria> </ProvidedResponseCriteria> </Body> </MS2SSN_ShipCall_Res> </pre>

	<pre> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="9332511"/> <VoyageInformation ETDFFromPortOfCall="2021-08-06T12:36:46Z" ETAToPortOfCall="2021-08-05T12:36:46Z" ETAToNextPort="2021-08-06T12:36:46Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628080606042"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <SecurityInformation> <SecuritySummary CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" Email="email@email.com" Fax="+123456789" Phone="+987654321"/> </SecuritySummary> <SecurityDetails ValidISSC="N" ReasonForNoValidISSC="reason for no valid ISSC" ApprovedSecurityPlan="Y" SecurityRelatedMatterToReport="security matter"> <Source ProviderOfLastUpdate="SOAPUI_DE_SYS" LastUpdateReceivedAt="2021-08-02T11:16:44Z"/> <CSO FirstName="cso name" LastName="cso last name" Phone="+987654321" Fax="+123456789" Email="email@email.com"/> </SecurityDetails> </SecurityInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
S3610-05	<p>Input: SSN2MS_ShipCall_Req from SSN for SelectedShipCall – Get CrewAndPax details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:39:55Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_NOT_CP" SSNRefId="957177173" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_PORT_REQ_CP"/> <RequiredResponseCriteria> <ShipCallResp GetCrewAndPax="CrewAndPaxDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080793824" GetCrewAndPaxType="CrewAndPaxOnArrival"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>
MS2SSN Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T12:39:55Z" From="SOAPUI_V5_DE_PORT_NOT_CP" To="SafeSeaNet" MSRefId="SOAP_MS_1628080793821" SSNRefId="957177173" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetHazmat="HazmatDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628080793824" GetHazmatType="HazmatTowardPortOfCall"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="5008679" MMSINumber="258089000"/> <VoyageInformation ETDFFromPortOfCall="2021-08-04T03:39:53Z" ETAToPortOfCall="2021-08-03T15:39:53Z" ETAToNextPort="2021-08-04T03:39:53Z" LastPort="DEHEI" NextPort="DEAAD" PortOfCall="DEBON" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628080793824"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <CrewAndPaxInformation> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_REQ_CP" LastUpdateReceivedAt="2021-08-04T12:39:55Z"/> </CrewAndPaxInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>

	<pre> <CrewAndPaxSummary NumberOfCrew="1" NumberOfPassengers="1"/> <CrewInformation> <CrewMember LastName="LastName1" FirstName="FirstName1" Nationality="DE" DateOfBirth="1982-01-10" Gender="0"/> </CrewInformation> <PassengerInformation> <Passenger LastName="LastName2" FirstName="FirstName2" Nationality="GR" DateOfBirth="1985-01-10" Gender="0"/> </PassengerInformation> </CrewAndPaxInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>
S3610-06	<p>Input: SSN2MS_ShipCall_Req from SSN for SelectedShipCall – Get Bunkers details.</p> <p>Output: MS2SSN_ShipCall_Res from the data provider.</p>
SSN2MS Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T13:04:30Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957177186" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetBunkers="BunkersDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628082269029" GetBunkersType="BunkersTowardsPortOfCall"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req> </pre>
MS2SSN Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T13:04:30Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628082269027" SSNRefId="957177186" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetBunkers="BunkersDetails"/> <SearchCriteria> <AdditionalSearchCriteria ShipCallId="SHCL_1628082269029"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="9078476" MMSINumber=""/> <VoyageInformation ETDFromPortOfCall="2021-08-06T13:04:29Z" ETAToPortOfCall="2021-08-03T13:04:29Z" ETAToNextPort="2021-08-07T13:04:29Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628082269029"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <BunkersInformation> <BunkerItem BunkerType="MGO" Quantity="125.7" UnitOfMeasurement="M3"/> </BunkersInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res> </pre>

S3611-01	XML interface requesting ShipCall for GetActiveHazmatForSelectedShip (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	

2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details to NCA App	
9b	SSN sends back XML message with status code InvalidFormat	
10a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
10b	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3611-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel .</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:12:35Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628082753761" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="GetActiveHazmatForSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <ShipIdentificationCriteria IMONumber="9332511"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:12:35Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628082753761" SSNRefId="957177200" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:12:35Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628082753761" SSNRefId="SOAP_MS_1628082753761" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="GetActiveHazmatForSelectedShip" GetHazmat="HazmatDetails"/> <SearchCriteria> <TimePeriodCriteria/> <ShipIdentificationCriteria IMONumber="9332511" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria></pre>	

	<pre> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T13:12:33Z"/> <VesselIdentification IMONumber="9332511" MMSINumber="565510000" CallSign="9VDR9" ShipName="MAERSK TANJONG"/> <VoyageInformation ShipCallId="UNIDENTIFIED" LastPort="DEHEN" PortOfCall="DEHE" ETDFromLastPort="2021-08-04T01:12:33Z" ETAToPortOfCall="2021-08- 07T09:33:44Z"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="456"/> <HazmatConfirmation HazmatOnBoardYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <HazmatInformation> <HazmatSummary INFShipClass="INF2"> <DG DGClassification="IMDG"/> </HazmatSummary> <HazmatDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SC_REQ_ALL" LastUpdateReceivedAt="2021-08- 04T13:12:35Z" ShipCallId="SHCL_1628082753763"/> <CargoInformation> <Consignment TransportDocumentID="123ABC" PortOfLoading="DEHGL" PortOfDischarge="DEHEI"> <DPGItem DGClassification="IBC" TextualReference="TEST" IMOHazardClass="IBC" PackingGroup="III" FlashPoint="25.0" MarpolCode="X" TotalNrOfPackages="10" AdditionalInformation="TEST"> <EmS EmSNumber="ems"/> <SubsidiaryRisks SubsidiaryRisk="testRisk"/> </SubsidiaryRisks> <TotalQuantityGross UnitOfMeasurement="M3" Quantity="100.0"/> <TotalQuantityNet UnitOfMeasurement="M3" Quantity="200.0"/> <TransportEquipmentUnit LocationOnBoard="TLocation" NoOfPackages="50" TransUnitId="TESTUNIT"> <QuantityGross UnitOfMeasurement="M3" Quantity="300.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="400.0"/> </TransportEquipmentUnit> <NonTransportEquipmentUnit LocationOnBoard="NonTLocation" NoOfPackages="120"> <QuantityGross UnitOfMeasurement="M3" Quantity="900.0"/> <QuantityNet UnitOfMeasurement="M3" Quantity="700.0"/> </NonTransportEquipmentUnit> </DPGItem> </Consignment> </CargoInformation> </HazmatDetails> <CargoManifest> <UriDetails Url="http://localhost:7200/ssn-xmlprotocol- web/ssndocuments.do?msRefId=SOAP_MS_16280827537611" DocType="PDF"/> </CargoManifest> </HazmatInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3612-01 XML interface requesting ShipCall for GetActiveSecurityForSelectedShip (a)		
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	

5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details to NCA App	
9b	SSN sends back XML message with status code InvalidFormat	
10a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
10b	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3612-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:14:28Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628082867350" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="GetActiveSecurityForSelectedShip" GetSecurity="SecurityDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:14:27Z"/> <ShipIdentificationCriteria IMONumber="9332511"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:14:28Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628082867350" SSNRefId="957177212" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:14:28Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628082867350" SSNRefId="SOAP_MS_1628082867350" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="GetActiveSecurityForSelectedShip" GetSecurity="SecurityDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:14:27Z"/> <ShipIdentificationCriteria IMONumber="9332511" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T13:14:27Z"/> <VesselIdentification IMONumber="9332511" MMSINumber="565510000" CallSign="9VDR9" ShipName="MAERSK TANJONG"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res></pre>	

	<pre> <VoyageInformation ShipCallId="SHCL_1628082867352" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETAToPortOfCall="2021-08-05T13:14:27Z" NextPort="DEHIE" ETAToNextPort="2021-08-07T13:14:27Z" ETDFromPortOfCall="2021-08-06T13:14:27Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <SecurityConfirmation CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" Phone="+987654321" Fax="+123456789" EMail="email@email.com"/> </SecurityConfirmation> </PortPlusNotificationList> <PortPlusNotificationDetails> <SecurityInformation> <SecuritySummary CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" Phone="+987654321" Fax="+123456789" EMail="email@email.com"/> </SecuritySummary> <SecurityDetails ValidISSC="N" ReasonForNoValidISSC="reason for no valid ISSC" ApprovedSecurityPlan="Y" SecurityRelatedMatterToReport="security matter"> <Source ProviderOfLastUpdate="SOAPUI_DE_SYS" LastUpdateReceivedAt="2021-08-02T11:16:44Z" ShipCallId="SHCL_1628082867352"/> <CSO FirstName="cso name" LastName="cso last name" Phone="+987654321" Fax="+123456789" EMail="email@email.com"/> </SecurityDetails> </SecurityInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3612-01	Message-based mechanism response to ShipCall request for GetActiveSecurityForSelectedShip – Get Security details (b)	
Step	Action / Input	Result / output
1	Login.	Login Success.
2	Select the Find Information > Voyage/Ship Information > Current Ship Information > Active Hazmat	Displays the Search form.
3	Enter the vessel identification criteria - mandatory. Press the Search button. Select a vessel from the list by clicking on its IMO number hyperlink. Adjust the time period criteria if needed.	A list of vessels that match the identification criteria is displayed.
4(b)	Select Get Security = "Security Details"	The system shall list the ship call based on the search criteria. Ensure the ship call displayed is the one previously notified by you.
5	Click on the Details icon.	A SSN2MS_ShipCall_Req will be send out
6	SSN establishes connection with data provider NCA App	Connection established
7	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8	NCA App sends back XML message with latest details	
9	SSN processes XML message with notification details (including Hazmat details) from NCA App	
10	NCA App ends activity	
Sample XML messages		
S3612-01	Input: SSN2MS_ShipCall_Req from SSN for GetActiveSecurityForSelectedShip – Get Security details.	

	Output: MS2SSN_ShipCall_Res from the data provider.
SSN2MS Request	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T13:14:28Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SYS" SSNRefId="957177214" TimeoutValue="60"/> <Body> <Source Requestor="SOAPUI_V5_DE_SC_REQ_ALL"/> <RequiredResponseCriteria> <ShipCallResp GetSecurity="SecurityDetails"/> <SearchCriteria> <ShipIdentificationCriteria IMONumber="9332511"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628082867352"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </SSN2MS_ShipCall_Req></pre>
MS2SSN Response	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T13:14:28Z" From="SOAPUI_V5_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1628082867349" SSNRefId="957177214" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetSecurity="SecurityDetails"/> <SearchCriteria> <ShipIdentificationCriteria IMONumber="9332511"/> <AdditionalSearchCriteria ShipCallId="SHCL_1628082867352"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <VesselIdentification IMONumber="9332511"/> <VoyageInformation ETDFromPortOfCall="2021-08-06T13:14:27Z" ETAToPortOfCall="2021-08-05T13:14:27Z" ETAToNextPort="2021-08-06T13:14:27Z" LastPort="DEHEI" NextPort="DEHIE" PortOfCall="DEHEN" PortFacilityLocode="DEHGE" PortFacility="0001" PositionInPortOfCall="marine" ShipCallId="SHCL_1628082867352"> <PurposeOfCall CallPurposeCode="10"/> <PurposeOfCall CallPurposeCode="11"/> </VoyageInformation> <SecurityInformation> <SecuritySummary CurrentSecurityLevel="SL1"> <AgentInPortAtArrival AgentName="agent name" EMail="email@email.com" Fax="+123456789" Phone="+987654321"/> </SecuritySummary> <SecurityDetails ValidISSC="N" ReasonForNoValidISSC="reason for no valid ISSC" ApprovedSecurityPlan="Y" SecurityRelatedMatterToReport="security matter"> <Source ProviderOfLastUpdate="SOAPUI_DE_SYS" LastUpdateReceivedAt="2021-08-02T11:16:44Z"/> <CSO FirstName="cso name" LastName="cso last name" Phone="+987654321" Fax="+123456789" EMail="email@email.com"/> </SecurityDetails> </SecurityInformation> </QueryResults> </Body> </MS2SSN_ShipCall_Res></pre>

S3613-01	XML interface requesting ShipCall for GetActiveWasteForSelectedShip (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5	SSN sends XML message with notification details to NCA App	
5	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
6	NCA App ends activity	

Sample XML messages	
S3613-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".</p>
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:19:15Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628083154152" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="GetActiveWasteForSelectedShip" GetWaste="WasteDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:19:14Z"/> <ShipIdentificationCriteria IMONumber="9078476"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:19:15Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628083154152" SSNRefId="957177223" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:19:15Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628083154152" SSNRefId="SOAP_MS_1628083154152" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="GetActiveWasteForSelectedShip" GetWaste="WasteDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:19:14Z"/> <ShipIdentificationCriteria IMONumber="9078476" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T13:19:14Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628083154154" LastPort="DEHEI" PortOfCall="DEHEN" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromLastPort="2021-08-04T13:19:14Z" ETAToPortOfCall="2021-08- 05T13:19:14Z" NextPort="DEABL" ETDFromPortOfCall="2021-08-06T13:19:14Z" BriefCargoDescription="test cargo"> <PurposeOfCall CallPurposeCode="1"/> </VoyageInformation> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <WasteConfirmation LastPortDelivered="DEHEI" LastPortDeliveredDate="2019-08-02Z"/> </PortPlusNotificationList> <PortPlusNotificationDetails></pre>

	<pre> <WasteInformation> <WasteSummary LastPortDelivered="DEHEI" LastPortDeliveredDate="2019-08-02Z"/> <WasteDetails> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T13:19:14Z" ShipCallId="SHCL_1628083154154"/> <WasteItem PortDeliveryRemainingWaste="DEHGL"> <WasteType WasteCode="1300" <ToBeDelivered UnitOfMeasurement="M3" <MaxStorage UnitOfMeasurement="M3" <RetainedOnBoard UnitOfMeasurement="M3" <EstimateGenerated UnitOfMeasurement="M3" </WasteItem> </WasteDetails> </WasteInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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S3614-01	XML interface requesting ShipCall for GetActiveBunkersForSelectedShip (a)	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details to NCA App	
9b	SSN sends back XML message with status code InvalidFormat	
10a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
10b	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3614-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode=" OK".</p>	
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:46:01Z" From="SOAPUI_V5_DE_SC_REQ_ALL" To="SafeSeaNet" MSRefId="SOAP_MS_1628084760478" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> </pre>	

	<pre> <ShipCallResp GetDetails="GetActiveBunkersForSelectedShip" GetBunkers="BunkersDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:46:00Z"/> <ShipIdentificationCriteria IMONumber="9078476"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:46:01Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628084760478" SSNRefId="957177330" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>
SSN2MS Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:46:01Z" From="SafeSeaNet" To="SOAPUI_V5_DE_SC_REQ_ALL" MSRefId="SOAP_MS_1628084760478" SSNRefId="SOAP_MS_1628084760478" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="GetActiveBunkersForSelectedShip" GetBunkers="BunkersDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-05T13:46:00Z"/> <ShipIdentificationCriteria IMONumber="9078476" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_SYS" LastUpdateReceivedAt="2021-08-04T13:46:00Z"/> <VesselIdentification IMONumber="9078476" MMSINumber="636014596" CallSign="A8VE9" ShipName="TOLEDO CARRIER" Flag="LR"/> <VoyageInformation ShipCallId="SHCL_1628084760480" LastPort="ZZUKN" PortOfCall="DEHIE" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromLastPort="2021-08-03T13:46:00Z" NextPort="DEHIE" ETAToNextPort="2021-08-06T01:46:00Z" ETDFromPortOfCall="2021-08-06T13:46:00Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-05T13:46:00Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <BunkersConfirmation BunkersReportedYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <BunkersInformation> <BunkerItem BunkerType="MGO" Quantity="125.7" UnitOfMeasurement="M3"/> </BunkersInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>

S3615-01 XML interface requesting ShipCall for GetActiveCrewAndPaxForSelectedShip (a)		
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	

5a	Data provider offers XML interface	
5b	SSN cannot process XML message	Invalid parameters
6a	SSN establishes connection with data provider NCA App	Connection established
7a	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8a	NCA App sends back XML message with latest details	
9a	SSN forwards XML message with notification details to NCA App	
9b	SSN sends back XML message with status code InvalidFormat	
10a	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
10b	NCA App receives XML message with status code InvalidFormat	XML message is validated against XML schema / well-formed + valid
11	NCA App ends activity	
Sample XML messages		
S3615-01	<p>Precondition: A ShipCall for a vessel exists.</p> <p>Input: The data provider is sending an MS2SSN_ShipCall_Req for a vessel.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the Req message is received and is a valid XML message. The data provider receives asynchronously an SSN2MS_ShipCall_Res from SSN with StatusCode="OK".</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_ShipCall_Req> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:52:54Z" From="SOAPUI_V5_DE_PORT_REQ_CP" To="SafeSeaNet" MSRefId="SOAP_MS_1628085173242" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <ShipCallResp GetDetails="GetActiveCrewAndPaxForSelectedShip" GetCrewAndPax="CrewAndPaxDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:52:53Z"/> <ShipIdentificationCriteria IMONumber="9332511"/> </SearchCriteria> </RequiredResponseCriteria> </Body> </MS2SSN_ShipCall_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:52:54Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_REQ_CP" MSRefId="SOAP_MS_1628085173242" SSNRefId="957177350" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_ShipCall_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" TestId="test1" SentAt="2021-08-04T13:52:54Z" From="SafeSeaNet" To="SOAPUI_V5_DE_PORT_REQ_CP" MSRefId="SOAP_MS_1628085173242" SSNRefId="SOAP_MS_1628085173242" StatusCode="OK"/> <Body> <ProvidedResponseCriteria> <ShipCallResp GetDetails="GetActiveCrewAndPaxForSelectedShip" GetCrewAndPax="CrewAndPaxDetails"/> <SearchCriteria> <TimePeriodCriteria StartDateTime="2021-08-03T14:52:53Z"/> <ShipIdentificationCriteria IMONumber="9332511" xsi:type="VesselIdentificationType" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"/> </SearchCriteria> </ProvidedResponseCriteria> <QueryResults> <PortPlusNotificationList> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_NOT_CP" LastUpdateReceivedAt="2021-08-04T13:52:53Z"/> <VesselIdentification IMONumber="9332511" MMSINumber="565510000" CallSign="9VDR9" ShipName="MAERSK TANJONG"/> </PortPlusNotificationList> </QueryResults> </Body> </SSN2MS_ShipCall_Res></pre>	

	<pre> <VoyageInformation ShipCallId="SHCL_1628085173244" LastPort="DEHEI" PortOfCall="DEBON" PositionInPortOfCall="marine" PortFacilityLocode="DEHGE" PortFacility="0001" ETDFromLastPort="2021-08-03T15:52:53Z" ETDFromPortOfCall="2021-08- 04T04:52:53Z"/> <PreArrival3DaysNotificationDetails CargoVolumeNature="fuel" PlannedOperations="unloading" PlannedWorks="Maintenance" ConditionCargoBallastTanks="inerted" PossibleAnchorage="Y" ShipConfiguration="SHT"/> <PreArrival24HoursNotificationDetails POBVoyageTowardsPortOfCall="123"/> <ArrivalNotificationDetails ATAPortOfCall="2021-08-03T16:52:53Z" Anchorage="N"/> <HazmatConfirmation HazmatOnBoardYorN="N"/> <CrewAndPaxConfirmation CrewAndPaxYorN="Y"/> </PortPlusNotificationList> <PortPlusNotificationDetails> <CrewAndPaxInformation> <Source ProviderOfLastUpdate="SOAPUI_V5_DE_PORT_REQ_CP" LastUpdateReceivedAt="2021-08- 04T13:52:54Z"/> <CrewAndPaxSummary NumberOfCrew="1" NumberOfPassengers="1"/> <CrewInformation> <CrewMember LastName="LastName1" FirstName="FirstName1" Nationality="DE" DateOfBirth="1982-01-10Z" Gender="0"/> </CrewInformation> <PassengerInformation> <Passenger LastName="LastName2" FirstName="FirstName2" Nationality="GR" DateOfBirth="1985-01-10Z" Gender="0"/> </PassengerInformation> </CrewAndPaxInformation> </PortPlusNotificationDetails> </QueryResults> </Body> </SSN2MS_ShipCall_Res> </pre>
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5.4. REQUEST OF EXEMPTION NOTIFICATIONS

Use Case Description The data requestor will send Exemption Request to the Central SafeSeaNet System in order to request the active exemption notification details:

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

The system will also allow requesting all exemptions recorded.

Please note that such kind of XML request (*MS2SSN_Exemption_Req.xml*) and its corresponding XML response (*SSN2MS_Exemption_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.

User configuration Prior to the launch of the CT for the Exemption Message-based mechanism, all MSs are invited to configure their users in the EMSA IdM and in the SSN Management console.

Users set-up One of the following profiles need to be assigned in the EMSA Identity Management System (IdM) to a system user requesting Ship Call details:

- National SSN System (PRF_NAT_SSN);
- National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only;
- Port System (PRF_PORT_SYSTEM) – for port system communicating with SSN.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 6:

Protocol	Provider Uri	Requestor Uri	Certificate Name	Delete
SOAP				

Figure 6 – XML/SOAP interface setup

Test Cases Each use case being a generic activity can be realized, executed in a number of ways. These are termed use-case realizations or test cases. We distinguish the following test cases for this use case:

Test Case Id	Description
TCNNN1	Message-based mechanism sending Exemption request - normal flow
TCNNN2	Message-based mechanism sending Exemption request - invalid XML message

Test Scenarios

Test Id	Description
SNNN1-01	Message-based mechanism sending Exemption request – normal flow, ExemptionType= Pre-Arrival
SNNN1-02	Message-based mechanism sending Exemption request – normal flow, ExemptionType= Hazmat
SNNN1-03	XML interface sending Exemption request – normal flow, ExemptionType= Security
SNNN1-04	Message-based mechanism sending Exemption request – normal flow, ExemptionType= WasteNotification
SNNN1-05	Message-based mechanism sending Exemption request – normal flow, ExemptionType= Security
SNNN1-06	Message-based mechanism sending Exemption request - normal flow, ExemptionType= WasteDelivery
SNNN1-07	Message-based mechanism sending Exemption request - normal flow, ExemptionType= WasteFees
SNNN1-08	Message-based mechanism sending Exemption request - normal flow, ExemptionType= CrewAndPax
SNNN1-09	Message-based mechanism sending Exemption request - normal flow, ExemptionType= CrewAndPaxDerogation
SNNN1-10	Message-based mechanism sending Exemption request – normal flow, Exemption by Ship Identification
SNNN1-11	Message-based mechanism sending Exemption request- normal flow, Exemption by Port
SNNN1-12	Message-based mechanism sending Exemption request – normal flow, Exemption by Authority

Scenario details

SNNN1-01	Message-based mechanism sending Exemption request - normal flow, ExemptionType= Pre-Arrival
SNNN1-01	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data requester receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:53:51Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627980831796" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Pre-Arrival"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:53:51Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980831796" SSNRefId="957175623" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>

SNNN1-02	Message-based mechanism sending Exemption request - normal flow, ExemptionType= Hazmat	
Step	Action/Input	Result/output
SNNN1-02	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:55:03Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627980903973" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Hazmat"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req>	

	<pre> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:55:03Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980903973" SSNRefId="957175632" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt> </pre>

SNNN1-03	XML interface sendig Exemption request - normal flow, ExemptionType= Security
SNNN1-03	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:55:30Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627980930123" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Security"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:55:30Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980930123" SSNRefId="957175635" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt> </pre>

SNNN1-04	Message-based mechanism sending Exemption request - normal flow, ExemptionType=WasteNotification	
Step	Action/ Input	Result/output
SNNN1-04	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:55:59Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627980959228" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="WasteNotification"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:55:59Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627980959228" SSNRefId="957175638" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-05	Message-based mechanism sending Exemption request, ExemptionType= Security	
Step	Action/Input	Result/output
SNNN1-05	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	

MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:57:41Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981061831" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Security"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:57:42Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981061831" SSNRefId="957175641" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>

SNNN1-06	Message-based mechanism sending Exemption request, ExemptionType= WasteDelivery	
Step	Action/Input	Result/output
SNNN1-06	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:58:23Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981103282" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="WasteDelivery"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:58:23Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981103282" SSNRefId="957175644" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-07	Message-based mechanism sending Exemption request, ExemptionType= WasteFees	
Step	Action/Input	Result/output
SNNN1-07	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:58:49Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981129588" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="WasteFees"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:58:49Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981129588" SSNRefId="957175647" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-08	Message-based mechanism sending Exemption request, ExemptionType= CrewAndPax	
Step	Action/Input	Result/output

SNNN1-08	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:59:17Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981157044" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="CrewAndPax"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:59:17Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981157044" SSNRefId="957175650" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>

SNNN1-09	Message-based mechanism sending Exemption request, ExemptionType=CrewAndPaxDerogation	
Step	Action/Input	Result/output
SNNN1-09	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T08:59:41Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981181314" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="CrewAndPaxDerogation"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T08:59:41Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981181314" SSNRefId="957175653" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-10	Message-based mechanism sending Exemption request – normal flow, Exemption by ShipIdentification	
Step	Action/Input	Result/output
SNNN1-10	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:01:04Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981264367" TimeoutValue="60"/> <Body> <RequiredResponseCriteria > <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:01:04Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981264367" SSNRefId="957175661" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-11 Message-based mechanism sending Exemption request- normal flow, Exemption by Port		
Step	Action/Input	Result/output
SNNN1-11	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:02:54Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981374770" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Security"> <ExemptedPortCriteria Port="DEHEN"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:02:54Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981374770" SSNRefId="957175664" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

SNNN1-12 Message-based mechanism sending Exemption request – normal flow, Exemption by Authority		
Step	Action/Input	Result/output
SNNN1-12	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK". The SSN_Receipt verifies that the exemption is valid according to specified business rules.	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:03:51Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981431929" TimeoutValue="60"/> <Body> <RequiredResponseCriteria> <AuthorityCriteria Country="DE"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:03:51Z" From="SafeSeaNet" To="SOAPUI_V5_XML_DE_SYS" MSRefId="SOAP_MS_1627981431929" SSNRefId="957175667" StatusCode="OK" StatusMessage="The message processed successfully."/></SSN_Receipt></pre>	

Regarding the Test Case TC-NNN2 which should be also implemented and tested at the national SafeSeaNet system level, the Member State shall inform EMSA whether or not their system prevents the provision of these "invalid" messages to the Central SSN system. If an Invalid notification is sent to SSN core the notification is rejected.

TC-NNN2 Scenarios - Invalid scenarios	
Test Id	Description
SNNN2-01	Message-based mechanism sending Exemption request – wrong MSRefID
SNNN2-02	Message-based mechanism sending Exemption request – wrong ShipIdentification element
SNNN2-03	Message-based mechanism sending Exemption request – wrong Type Hazmat element
SNNN2-04	Message-based mechanism sending Exemption request – wrong Type Security element
SNNN2-05	Message-based mechanism sending Exemption request – wrong Type Waste element

SNNN2-06	Message-based mechanism sending Exemption request – wrong Type Pre-Arrival element
SNNN2-07	Message-based mechanism sending Exemption request – wrong Port element
SNNN2-08	Message-based mechanism sending Exemption request – wrong Authority element
SNNN2-09	Message-based mechanism sending Exemption request – wrong Type CrewAndPax

SNNN2-01	Message-based mechanism sending Exemption request – wrong MSRefID	
Step	Action/Input	Result/output
SNNN2-01	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption request is not valid according to specified business rules.	
MS2SSN Request	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:06:42Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="1234567890123456789012345678901234567" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Security"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:06:42Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175687" StatusCode="InvalidFormat" StatusMessage="
Exception Description: An error occurred unmarshalling the document
Internal Exception: org.xml.sax.SAXParseException; lineNumber: 2; columnNumber: 165; cvc-maxLength-valid: Value '1234567890123456789012345678901234567' with length = '37' is not facet"/></SSN_Receipt>	

SNNN2-02	Message-based mechanism sending Exemption request – wrong ShipIdentification element	
Step	Action/Input	Result/output
SNNN2-02	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:07:46Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981666773" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="Security"> <ShipIdentificationCriteria ShipCallId="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:07:46Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175689" StatusCode="InvalidFormat" StatusMessage="
Exception Description: An error occurred unmarshalling the document
Internal Exception: org.xml.sax.SAXParseException; lineNumber: 5; columnNumber: 55; cvc-complex-type.3.2.2: Attribute 'ShipCallId' is not allowed to appear in element 'ShipIdentificat"/></SSN_Receipt>	

SNNN2-03	Message-based mechanism sending Exemption request – wrong Type Hazmat element	
Step	Action/Input	Result/output
SNNN2-03	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	

MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:08:40Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981720177" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="hazmat"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:08:40Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175691" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 51; cvc-enumeration-valid: Value 'hazmat' is not facet-valid with respect to enumeration '[Hazmat, Pre-']"/></SSN_Receipt></pre>

SNNN2-04	Message-based mechanism sending Exemption request – wrong Type Security element	
Step	Action/Input	Result/output
SNNN2-04	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:09:08Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981748702" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="security"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:09:08Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175693" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 53; cvc-enumeration-valid: Value 'security' is not facet-valid with respect to enumeration '[Hazmat, Pr']"/></SSN_Receipt></pre>	

SNNN2-05	Message-based mechanism sending Exemption request – wrong Type Waste element	
Step	Action/Input	Result/output
SNNN2-05	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:09:29Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981769415" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="waste"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:09:29Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175695" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 50; cvc-enumeration-valid: Value 'waste' is not facet-valid with respect to enumeration '[Hazmat, Pre-A']"/></SSN_Receipt></pre>	

SNNN2-06 Message-based mechanism sending Exemption request – wrong Type Pre-Arrival element		
Step	Action/Input	Result/output
SNNN2-06	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:09:55Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981795214" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="prearrival"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:09:55Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981795214" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="prearrival"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	

SNNN2-07 Message-based mechanism sending Exemption request – wrong Port element		
Step	Action/Input	Result/output
SNNN2-07	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:11:57Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981917729" TimeoutValue="60"/> <Body> <RequiredResponseCriteria > <ExemptedPortCriteria Port="DEHEN1"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:11:57Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175702" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 5; columnNumber: 40; cvc-maxLength-valid: Value 'DEHEN1' with length = '6' is not facet-valid with respect to maxLength "/></SSN_Receipt></pre>	

SNNN2-08 Message-based mechanism sending Exemption request – wrong Authority element		
Step	Action/Input	Result/output
SNNN2-08	Input: The data requester is sending an MS2SSN_Exemption_Req. Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:13:19Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627981999152" TimeoutValue="60"/> <Body> <RequiredResponseCriteria > <AuthorityCriteria Country="EUT"/> </RequiredResponseCriteria></pre>	

	<pre></Body> </MS2SSN_Exemption_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:13:19Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175704" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 5; columnNumber: 37; cvc-pattern-valid: Value 'EUT' is not facet-valid with respect to pattern '[a- zA-Z]{2}' for type 'F'"/></SSN_Receipt></pre>

SNNN2-09	Message-based mechanism sending Exemption request – wrong Type CrewAndPax	
Step	Action/Input	Result/output
SNNN2-09	<p>Input: The data requester is sending an MS2SSN_Exemption_Req.</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="Invalid". The SSN_Receipt verifies that the exemption is not valid according to specified business rules.</p>	
MS2SSN Request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Exemption_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T09:14:06Z" From="SOAPUI_V5_XML_DE_SYS" To="SafeSeaNet" MSRefId="SOAP_MS_1627982046090" TimeoutValue="60"/> <Body> <RequiredResponseCriteria ExemptionType="crewandpax"> <ShipIdentificationCriteria IMONumber="8022913"/> </RequiredResponseCriteria> </Body> </MS2SSN_Exemption_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?><SSN_Receipt xmlns="urn:eu.emsa.ssn"><Header Version="5.0" SentAt="2021-08-03T09:14:06Z" From="SafeSeaNet" To="NotAvailable" MSRefId="N/A" SSNRefId="957175706" StatusCode="InvalidFormat" StatusMessage="&#xd;&#xa;Exception Description: An error occurred unmarshalling the document&#xd;&#xa;Internal Exception: org.xml.sax.SAXParseException; lineNumber: 4; columnNumber: 55; cvc-enumeration-valid: Value 'crewandpax' is not facet-valid with respect to enumeration '[Hazmat, '"/></SSN_Receipt></pre>	

5.5. REQUEST OF SHIP NOTIFICATIONS (MRS)

Use Case Description

This relates to requesting the details of a ship notification (MRS) sent previously to SSN Central. More specifically, the data requestor will send an MS2SSN_Ship_Req message to SSN Central that in return will respond with the SSN2MS_Ship_Res message providing the details requested.

As the data provider holds some of the details of a Ship notification, SSN will search in its index server to check the data provider (xml for MRS) and return the details to the data requestor. In case of need, the tester shall contact the MSS support for details on what data to request for details. The MSS will provide the details of the vessels for which ship notification information have previously been reported to SSN Central and can be used for each test scenario.

To test the scenarios defined hereunder for each test case contain the MS2SSN_Ship_Req send from the data requestor and the SSN2MS_Ship_Res which is expected from the SSN Central in response. The primary scope of these tests is to verify the MS compliance to request in XML the details for a Ship notification previously sent to SSN.

Users set-up

One of the following profiles need to be assigned in the EMSA Identity Management System (IdM) to a system user requesting Ship notifications (MRS):

- National SSN System (PRF_NAT_SSN);
- National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only;
- Port System (PRF_PORT_SYSTEM) – for port system communicating with SSN.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 6:

The screenshot shows a web interface titled 'Interface Information'. It contains a table with columns: Protocol, Provider Uri, Requestor Uri, Certificate Name, and a Delete button. The 'Protocol' field is set to 'SOAP'. The 'Provider Uri' field is empty. The 'Requestor Uri' field contains a yellow-highlighted URL. The 'Certificate Name' field is empty. The 'Delete' button is represented by a red minus sign icon.

Figure 6 – SOAP/XML interface setup

Test Cases

As each use case is a generic activity, it can be executed in a number of ways, which are termed use-case realisations, or test cases. The following test cases apply to this use case:

Test Case Id	Description
TC-0329	XML interface – request latest MRS/AIS ship notification details – XML message
TC-0330	Message-based mechanism sending MRS Request – no matching notifications found
TC-0331	Message-based mechanism sending MRS Request – No compliance to authorization requirements
TC-0332	Message-based mechanism sending Ship List Request - normal flow
TC-0333	Message-based mechanism sending Ship List Request - no matching notifications found
TC-0334	Message-based mechanism sending Ship List Request - no matching authorization requirements

Test Scenarios

Test Id	Description
S0329-01	Message-based mechanism – latest MRS ship notification details – XML message
S0330-01	Message-based mechanism sending MRS Request – no matching notifications found
S0331-01	Message-based mechanism sending MRS Request – No compliance to authorization requirements
S0332-01	Message-based mechanism sending Ship List Request - normal flow
S0333-01	Message-based mechanism sending Ship List Request - no matching notifications found
S0334-01	Message-based mechanism sending Ship List Request - no compliance authorization requirements

Scenario details

S0329-01	Message-based mechanism sending MRS Request –normal flow (a)	
Step	Action /Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5	Data provider offers XML interface	
6(a)	SSN establishes connection with data provider NCA App	Connection established
7(a)	SSN transmits XML message requesting notification details	XML message is validated against XML schema / well-formed + valid
8(a)	NCA App sends back XML message with latest MRS details enclosed	
10	SSN forwards XML message with notification details to NCA App	
11	NCA App receives XML message with Provider info	XML message is validated against XML schema / well-formed + valid
12	NCA App ends activity	
Sample XML messages		
S0329-05	<p>Precondition: A MS2SSN_Ship_Not for a vessel with IMONumber="8500068" was previously sent.</p> <p>Input: The data provider is sending an MS2SSN_Ship_Req for a vessel with IMONumber="8500068".</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_Res from SSN with StatusCode="OK" along with the details (XML) of the notification</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:49:45Z" From="SOAPUI_V5_IT_MRS_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628059785153" TimeoutValue="30"/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS" MRSIdentification="ADRIREP" SenderCountryId="IT"/> </Body> </MS2SSN_Ship_Req></pre>	
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:49:45Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628059785153" SSNRefId="957176696" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>	

SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:49:46Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628059785153" SSNRefId="SOAP_MS_1628059785153" StatusCode="OK"/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS" MRSIdentification="ADRIREP" SenderCountryId="IT"/> <NotificationDetails SentAt="2021-08-04T06:49:45Z" From="SOAPUI_V5_IT_MRS_NOT"> <VesselIdentification IMONumber="8500068"/> <MRSNotificationDetails> <MRSInformation MRSIdentification="ADRIREP"/> <MRSVoyageInformation NextPortOfCall="GRPIR" ETA="2021-09- 04T06:49:45Z" TotalPersonsOnBoard="35" Longitude="45" Latitude="90" AnyDG="N" ReportingDateAndTime="2021-08-04T06:49:45Z"/> <MRSDynamicInformation COG="3600" SOG="1023" NavigationalStatus="8"> <Bunker Chars="BUNKER" Quantity="10"/> </MRSDynamicInformation> <MRSCargoInformation CargoType="CARGOTYPE"> <DG> <DGDetails IMOCClass="6.1" Quantity="1530"/> </DG> <ContactDetails ContactName="Gsax"/> </MRSCargoInformation> </MRSNotificationDetails> </NotificationDetails> </Body> </SSN2MS_Ship_Res></pre>
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S0330-01	Message-based mechanism sending MRS Request – no matching notifications found (status code="NotFound")	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5	SSN cannot process XML message	No data found
6	SSN sends back XML message with status code NotFound	SSN sends back XML message with status code NotFound
7	NCA App receives XML message with status code NotFound	NCA App receives XML message with status code NotFound
8	NCA App ends activity	
Sample XML message		
SC-SSN-	<p>Precondition: An MS2SSN_Ship_Not for a vessel with IMONumber="8500068" was not previously sent.</p> <p>Input: The data provider is sending an MS2SSN_Ship_Req for a vessel with IMONumber="8500068".</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_Res from SSN with StatusCode="NotFound"</p>	
MS2SSN Notification	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_Req> <Header Version="5.0" SentAt="2021-08-04T06:52:31Z" From="SOAPUI_V5_IT_MRS_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628059951604" TimeoutValue="60"/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS" SenderCountryId="GR"/> </Body> </MS2SSN_Ship_Req></pre>	

SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:52:31Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628059951604" SSNRefId="957176707" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>
SSN2MS Response	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:52:32Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628059951604" SSNRefId="957176709" StatusCode="NotFound" StatusMessage="The notification details requested in the corresponding XML request message does not exist"/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS" SenderCountryId="GR"/> </Body> </SSN2MS_Ship_Res>

S0331-01	Message-based mechanism sending Request – No compliance to authorization requirements (StatusCode="AccessDenied")	
Step	Action/Input	Result/output
1	NCA App send out XML message to SSN	
2	SSN validates the XML message	XML message is validated against XML schema / well-formed + valid
3	SSN processes the contents of the XML message	Contents are non-conflicting, data provider is deduced
4	SSN processes data provider accessibility	
5	SSN cannot process XML message	No access rights
6	SSN sends back XML message with status code AccessDenied	SSN sends back XML message with status code AccessDenied
7	NCA App receives XML message with status code Accessdenied	NCA App receives XML message with status code Accessdenied
8	NCA App ends activity	
Sample XML message		
	Precondition: The Patry sending the request does not comply to authorization requirements Input: The data provider is sending an MS2SSN_Ship_Req for a vessel with IMONumber="8500068". Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_Res from SSN with StatusCode="AccessDenied"	
MS2SSN request	<?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:54:58Z" From="SOAPUI_V5_DE_NOROLE" To="SafeSeaNet" MSRefId="SOAP_MS_1628060098536" TimeoutValue="60"/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS"/> </Body> </MS2SSN_Ship_Req>	
SSN_Receipt	<?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:54:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_NOROLE" MSRefId="SOAP_MS_1628060098536" SSNRefId="957176710" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt>	
SSN2MS Response	<?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T06:54:58Z" From="SafeSeaNet" To="SOAPUI_V5_DE_NOROLE" MSRefId="SOAP_MS_1628060098536" SSNRefId="957176712" StatusCode="AccessDenied" StatusMessage="Sender: SOAPUI_V5_DE_NOROLE tried to sent a MS2SSN_Ship_Req for which he doesnt have permission."/> <Body> <SearchCriteria IMONumber="8500068" ShipNotType="MRS"/> </Body> </SSN2MS_Ship_Res>	

S0332-01	Message-based mechanism sending MS2SSN_Ship_List_Req – normal flow
S0333-01	Message-based mechanism sending MS2SSN_Ship_List_Req – no matching notifications found (a)
S0334-01	Message-based mechanism sending MS2SSN_Ship_List_Req – No compliance to authorization requirements (b)
Step	Action/Input
1	SSN receives XML message from NCA App
2	SSN validates the XML message
3	SSN processes the contents of the XML message and associates the response with the corresponding request awaiting reply.
3b	SSN validates that the NCA App is not allowed to send the request
4/4b	SSN verifies that the response is compliant to the corresponding request (verifies the search criteria/vessel identification).
4a	SSN verifies that the requested information was not found
5	SSN establishes connection with data provider NCA App
9	SSN logs and forward XML message with notification details to NCA App
9a	SSN logs and forward XML message without notification details to NCA App because requested information was not found
10	SSN ends activity
S0332-01	<p>Precondition: Several MS2SSN_Ship_Not for MRSIdentification="ADRIREP" were previously sent. A request from the requestor is accepted and the data exists</p> <p>Input: The data provider is sending an MS2SSN_Ship_List_Req for a list of vessels with MRSIdentification="ADRIREP"</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_List_Res from SSN with StatusCode="OK" along with the details (XML) of the notification</p>
MS2SSN request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_List_Req> <Header Version="5.0" SentAt="2021-08-04T07:47:56Z" From="SOAPUI_V5_IT_MRS_REQ" To="SeaSafeNet" MSRefId="SOAP_MS_1628063276474" TimeoutValue="60"/> <Body> <SearchCriteria MRSIdentification="ADRIREP" StartDateTime="2021-08-04T07:17:56Z" SenderCountryId="IT"/> </Body> </MS2SSN_Ship_List_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:47:56Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628063276474" SSNRefId="957176726" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_List_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:47:56Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628063276474" SSNRefId="SOAP_MS_1628063276474" StatusCode="OK"/> <Body> <SearchCriteria MRSIdentification="ADRIREP" StartDateTime="2021-08-04T07:17:56Z" EndDateTime="2021-08-04T07:47:56Z" SenderCountryId="IT"/> <QueryResults> <NotificationList> <NotificationInformation> <NotificationID MSRefId="SOAP_MS_1628063255721" SentAt="2021-08-04T07:47:35Z" From="SOAPUI_V5_IT_MRS_NOT"/> <MRSVesselIdentification IMONumber="5010464"/> <MRSInformation MRSIdentification="ADRIREP"/> <MRSVoyageInformation NextPortOfCall="GRTIN" ETA="2021-08-05T07:47:35Z" TotalPersonsOnBoard="45" AnyDG="Y"/> <MRSShipPosition Longitude="45" Latitude="90"</pre>

	<pre> ReportingDateAndTime="2021-08-04T07:47:35Z"/> </NotificationInformation> <NotificationInformation> <NotificationID MSRefId="SOAP_MS_1628063276473" SentAt="2021-08-04T07:47:56Z" From="SOAPUI_V5_IT_MRS_NOT"/> <MRSVesselIdentification IMONumber="5010464"/> <MRSInformation MRSIdentification="ADRIREP"/> <MRSVoyageInformation NextPortOfCall="GRTIN" ETA="2021-08-05T07:47:56Z" TotalPersonsOnBoard="45" AnyDG="Y"/> <MRSShipPosition Longitude="45" Latitude="90" ReportingDateAndTime="2021-08-04T07:47:56Z"/> </NotificationInformation> </NotificationList> </QueryResults> </Body> </SSN2MS_Ship_List_Res> </pre>
S0333-01	<p>Precondition: A MS2SSN_Ship_Not for MRSIdentification=" OUESSREP " was NOT previously sent. A request from the requestor is accepted but the data not exists</p> <p>Input: The data provider is sending an MS2SSN_Ship_List_Req for a list of vessels with MRSIdentification="OUESSREP</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_List_Res from SSN with StatusCode="NotFound"</p>
MS2SSN request	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_List_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:50:21Z" From="SOAPUI_V5_IT_MRS_REQ" To="SeaSafeNet" MSRefId="SOAP_MS_1628063421118" TimeoutValue="60"/> <Body> <SearchCriteria MRSIdentification="OUESSREP" StartDateTime="2021-08- 04T07:20:21Z" SenderCountryId="IT"/> </Body> </MS2SSN_Ship_List_Req> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:50:21Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628063421118" SSNRefId="957176731" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt> </pre>
SSN2MS Response	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_List_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:50:21Z" From="SafeSeaNet" To="SOAPUI_V5_IT_MRS_REQ" MSRefId="SOAP_MS_1628063421118" SSNRefId="957176733" StatusCode="NotFound" StatusMessage="The notification details requested in the corresponding XML request message does not exist"/> <Body> <SearchCriteria MRSIdentification="OUESSREP" StartDateTime="2021-08- 04T07:20:21Z" EndDateTime="2021-08-04T07:50:21Z" SenderCountryId="IT"/> </Body> </SSN2MS_Ship_List_Res> </pre>
S0334-01	<p>Precondition: The Party sending the request is not allowed to send notification. A request from the requestor is not accepted although the data exists</p> <p>Input: The data provider is sending an MS2SSN_Ship_List_Req for a vessel with MRSIdentification="OUESSREP</p> <p>Output: The data provider receives synchronously from SSN an SSN_Receipt with StatusCode="OK" The data provider receives asynchronously an SSN2MS_Ship_List_Res from SSN with StatusCode="AccessDenied" along with the details (XML) of the notification</p>

MS2SSN request	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_Ship_List_Req> <Header Version="5.0" SentAt="2021-08-04T07:55:09Z" From="SOAPUI_V5_DE_NOROLE" To="SeaSafeNet" MSRefId="SOAP_MS_1628063709933" TimeoutValue="60"/> <Body> <SearchCriteria MRSIdentification="OUESSREP"/> </Body> </MS2SSN_Ship_List_Req></pre>
SSN_Receipt	<pre><?xml version="1.0" encoding="UTF-8"?> <env:Envelope xmlns:env="http://www.w3.org/2003/05/soap-envelope"> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:55:10Z" From="SafeSeaNet" To="SOAPUI_V5_DE_NOROLE" MSRefId="SOAP_MS_1628063709933" SSNRefId="957176740" StatusCode="OK" StatusMessage="The message processed successfully."/> </SSN_Receipt></pre>
SSN2MS Response	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_Ship_List_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-04T07:55:10Z" From="SafeSeaNet" To="SOAPUI_V5_DE_NOROLE" MSRefId="SOAP_MS_1628063709933" SSNRefId="957176742" StatusCode="AccessDenied" StatusMessage="Sender: SOAPUI_V5_DE_NOROLE tried to sent a MS2SSN_Ship_List_Req for which he doesnt have permission."/> <Body> <SearchCriteria MRSIdentification="OUESSREP" StartDateTime="2021-08- 04T07:55:09Z" EndDateTime="2021-08-03T07:55:09Z"/> </Body> </SSN2MS_Ship_List_Res></pre>

5.6. RECEPTION OF DISTRIBUTED INCIDENT REPORT NOTIFICATION OR FEEDBACK

Use Case Description The data receiver receives the distributed incident report from SSN. The process involves the following key elements:

- The MS application receives a distributed IR from SSN via XML/SOAP.
- The MS sends back a receipt to SSN

For the execution of the tests, a simulator of an NCA application (data provider) will be used for sending incident reports or feedback. The simulator is installed at the Central SSN system test site and will provide the messages to be forwarded to the recipients via the Central SSN system.

The following profile need to be assigned in the EMSA Identity Management System (IdM) to a system user willing to receive distributed Incident Report or Feedback via system to system:

- System Incident Report Receiver
(PRF_SYSTEM_INCIDENT_REP)

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 7:

Figure 7 – XML/SOAP interface setup

System involved

The following diagram depicts the systems involved in the commissioning tests and the message flows for this use case⁴.

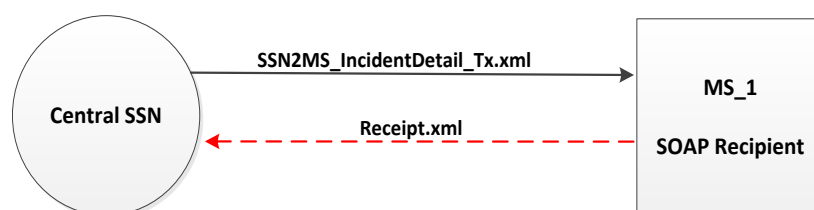


Figure 8 – Systems involved in the commissioning tests (UC-IR-2)

Test cases

The test case is detailed in the following test scenarios:

Test Case Id	Description
TC - 3801	Message-based mechanism receiving notification/feedback - Normal flow Successful

⁴ MS_1 is the recipient of distributed IR via XML or SOAP

Test scenarios

The test case is detailed in the following test scenarios:

TC – 3801 Scenarios XML or SOAP interface receiving notification - Normal flow Successful		
Mandatory for MS	TestId	Description
X	S3801-01	XML/SOAP interface receiving IR notification/feedback "WASTE" (distributed) - Normal flow Successful
X	S3801-02	XML/SOAP interface receiving IR notification/feedback "SITREP" (distributed) - Normal flow Successful
X	S3801-03	XML/SOAP interface receiving IR notification/feedback "POLREP" (distributed) - Normal flow Successful
X	S3801-04	XML/SOAP interface receiving IR notification/feedback "LOST&FOUND" (distributed) - Normal flow Successful
X	S3801-05	XML/SOAP interface receiving IR notification/feedback "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
X	S3801-06	XML/SOAP interface receiving IR notification/feedback "VesselTraffic_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
X	S3801-07	XML/SOAP interface receiving IR notification/feedback "BANNED_SHIP" (distributed) - Normal flow Successful
X	S3801-08	XML/SOAP interface receiving IR notification/feedback "INSURANCE_FAILURE" (distributed) - Normal flow Successful
X	S3801-09	XML/SOAP interface receiving IR notification/feedback "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
X	S3801-10	XML/SOAP interface receiving IR notification/feedback "OTHER" (distributed) - Normal flow Successful
X	S3801-11	XML/SOAP interface receiving new IR notification e.g. "SITREP" quoting CargoManifest element (distributed) - Normal flow Successful – Recipient via XML/SOAP to receive in <i>CargoManifest>Details</i> attribute the sentence "Cargo manifest available upon request to central SSN"

Scenario details

The expected workflow for the test scenarios is herein described:

TC – 3801 Scenarios XML or SOAP interface receiving notification - Normal flow Successful			
TestId	Description		
S3801-01	Message-based mechanism receiving IR notification/feedback "WASTE" (distributed) - Normal flow Successful		
S3801-02	Message-based mechanism receiving IR notification/feedback "SITREP" (distributed) - Normal flow Successful		
S3801-03	Message-based mechanism receiving IR notification/feedback "POLREP" (distributed) - Normal flow Successful		
S3801-04	Message-based mechanism receiving IR notification/feedback "LOST&FOUND" (distributed) - Normal flow Successful		
S3801-05	Message-based mechanism receiving IR notification/feedback "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
S3801-06	Message-based mechanism receiving IR notification/feedback "VesselTraffic_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
S3801-07	Message-based mechanism receiving IR notification/feedback "BANNED_SHIP" (distributed) - Normal flow Successful		
S3801-08	Message-based mechanism receiving IR notification/feedback "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
S3801-09	Message-based mechanism receiving IR notification/feedback "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
S3801-10	Message-based mechanism receiving IR notification/feedback "OTHER" (distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	SSN sends to NCA App XML message.	Recipient NCA App receives XML message	
2	Recipient NCA App interprets XML message and sends RECEIPT message with status		

	code=OK		
Test Data			
SSN2MS_IncidentDetail_Tx	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentDetail_Tx xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:22:04Z" From="SafeSeaNet" To="SOAPUI_V5_EG_SYS" SSNRefId="SOAP_MS_1628014918687"/> <Body> <DistributedDetails> <Incident> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628014918687"/> <IncidentNotificationStatus UpdateStatus="N"/> <IRDistributionDetails IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="EG"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8433356"/> <IRVoyageInformation ETAToNextPort="2021-08-03T18:21:58Z" ShipCallId="SHCL_1628014918687"/> <CargoManifest Details="Cargo manifest available upon request to central SSN system"/> <ShipPositionAtTimeOfIncident> <Area GeographicalArea="DE"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="EG"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08-03T18:21:58Z" Nature="Other" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPIInformation> <PlaceOfRefugeInformation ReportNumber="TestReportNumber" CoordinatingAuthority="TestCoordinatingAuthority" PoRStatus="StatusReport" Course="5" Speed="5" PortOfDeparture="GRACL" Route="TestRoute" RadioCommunications="TestRadio" OriginalDestination="DEAAD" PoRDestination="TestPoRDest" Pilot="Y" NextCommunicationReport="2021-08- 03T18:21:58Z" CurrentDraft="TestCurrentDraft" DefectLimitations="TestDefectLimitations" WeatherForecast="TestWeatherForecast" ShipAgentRepresentative="TestShipAgentRepresentative" SalvageOrTowing="TestSalvageOrTowing" Medic="TestMedic" PoRIncidentDetails="TestPoRIncidentDetails"> <ShipInformation ShipType="50" ShipLength="5.5" ShipBreadth="6.6" GrossTonnage="7.7" Deadweight="8.8" ShipHeight="9.9"/> </ShipInformation> <TransferCoordinationPosition> <BearingDistance Bearing="TESTBearing" Distance="100" Mark="TESTMark"/> </TransferCoordinationPosition> <EntryMSAreaOfResponsibility DateTimeReportAction="2021-08-03T18:21:58Z"> <GeoCoordinates Longitude="90" Latitude="45"/> </EntryMSAreaOfResponsibility> <ExitMSAreaOfResponsibility DateTimeReportAction="2021-08-03T18:21:58Z"> <BearingDistance Bearing="TESTBearing" Distance="100" Mark="TESTMark"/> </ExitMSAreaOfResponsibility> </CargoAndQuantity> </IncidentDetails> </Incident> </DistributedDetails> </Body> </SSN2MS_IncidentDetail_Tx></pre>		

	<pre> CargoType="TYPE"> UNNumber="TEST" TextualReference="TESTtextual" <DGDDetails UnitOfMeasurement="L"/> Quantity="5.5" </CargoAndQuantity> <PollutionOrLostDGOOverboard PollutionOrLostDG="TEST"> <GeoCoordinates Longitude="90" Latitude="45"/> </PollutionOrLostDGOOverboard> NumberOfPassengers="5" NumberOfCrew="5" <Persons NumberSalvors="5" NumberAssessmentTeam="5"/> </PlaceOfRefugeInformation> </SITREPIncidentInformation> </IncidentDetails> </Incident> </DistributedDetails> </Body> </SSN2MS_IncidentDetail_Tx> </pre>
SSN_Receipt	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN_Receipt xmlns="urn:eu.emsa.ssn"> <urn:Header Version="5.0" TestId="test" SentAt="2021-08-03T18:27:06Z" From="SOAPUI_V5_DE_IR_NOT_ACK" To="SeaSafeNet" MSRefId="msRefIdMockResponse" SSNRefId="SOAP_MS_1628015225247" StatusCode="OK" StatusMessage="The message processed successfully."/> </urn:SSN_Receipt> </pre>

TC – 3801 Scenarios			
XML or SOAP interface receiving notification - Normal flow Successful			
TestId	Description		
S3801-11	Message-based mechanism receiving new IR notification e.g. "SITREP" quoting CargoManifest element (distributed) - Normal flow Successful – Recipient via XML or SOAP to receive in <i>CargoManifest</i> >Details attribute the sentence "Cargo manifest available upon request to central SSN"		
Step	Action/ input	Result/output	Notes
1	SSN sends to NCA App XML message.	Recipient NCA App receives XML message	The sender NCA provides CargoManifest element
2	Recipient NCA App interprets XML message and sends RECEIPT message with status code=OK	The XML message quotes the sentence "Cargo manifest available on request" under CargoManifest>Details attribute	

5.7. REQUEST OF INCIDENT REPORT NOTIFICATIONS OR FEEDBACK

Use Case Description	<p>The data requestor can retrieve the details of an incident notification by running specific queries.</p> <p>For the execution of the UC-IR-3, EMSA will provide the references to the messages to be requested via the relevant queries.</p>
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- Users set-up** The following profile need to be assigned in the EMSA Identity Management System (IdM) to a system user requesting Incident Report or Feedback:
- National SSN System (PRF_NAT_SSN);
 - National SSN System in Norway (PRF_NAT_SSN_NO) – for Norway only;
 - Port System (PRF_PORT_SYSTEM) – for port system communicating with SSN.

EMSA shall define the Provider and Requestor URL in the SSN Management Console as shown in Figure 9:

Figure 9 – SOAP interface setup

- Use cases list** For the purpose of commissioning tests for the new IR data exchange mechanism, the use cases identified in the table below should be used.

Ref	Description	Systems utilised for the commissioning tests	Notes
UC-IR-3	IR request/response using XML or SOAP interface	<ul style="list-style-type: none"> • MS application acting as data requestor and response recipient • Central SSN central system 	<p>The central SSN system will provide the relevant IR information to the data requestor, depending on the selected criteria.</p> <p>For the execution of such UC, EMSA will provide the MS doing the tests with the references to the messages to be requested via the relevant queries (e.g. IMO number, IncidentID etc).</p>

Systems involved

The following diagram depicts the systems involved in the commissioning tests and the message flows for this use case⁵.

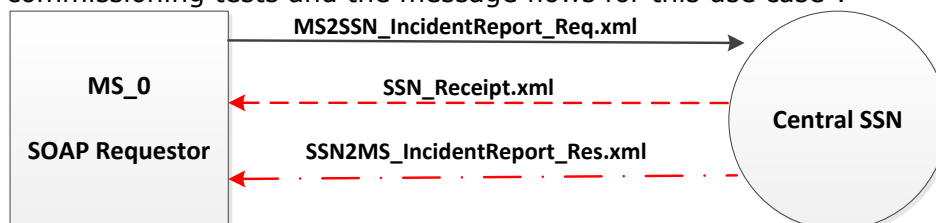


Figure 10 – Systems involved in the commissioning tests (UC-IR-3)

- Test cases** The following test cases shall be executed during the commissioning tests:

⁵ MS_0 is the IR requestor using XML or SOAP interface

Test Case Id	Description
TC-3901	Requesting Incident Detail Notification – XML interface – normal flow

The above test cases are detailed in the following test scenarios.

Test Scenarios

The available test cases are further extended into separate test scenarios with different input in order to trigger the validation of additional business processes extending the “normal” flow of events.

TC – 3901 Scenarios Requesting Incident Detail Notification – XML or SOAP interface – normal flow		
Mandatory for MS	TestId	Description
--	S3901-01	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “AllIRsOfSelectedShip” notification found
--	S3901-02	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “SpecificTypesIRsOfSelectedShip” notification found
--	S3901-03	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “IRsForSpecificPort” notification found
--	S3901-04	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “GetSpecificIR” notification found
--	S3901-05	XML/SOAP Interface Requesting Incident Detail Notification – no notification found
--	S3901-06	XML/SOAP Interface Requesting Incident Detail Notification – invalid XML format

Scenario details

The detailed description of each scenario consists of:

- Step number
- The action required from the requesting application
- The expected result from the SSN
- Checkpoints

When testing the XML interface normal flow, a valid XML message with the correct data must be supplied.

To test the invalid XML message flow, you must provide an XML message containing invalid data to trigger an invalid response.

To confirm the non-existence of the voyage you may consult the Web Interface.

For each test scenario the XML messages in and out are described in detail in the XML Reference Guide document:

- Request IR details: MS2SSN_IncidentReport_Req
- Response to a Request for IR details: SSN2MS_IncidentReport_Res

TC – 3901 Scenarios Requesting Incident Detail Notification – XML or SOAP interface – normal flow	
TestId	Description
S3901-01	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “AllIRsOfSelectedShip” notification found (a)
S3901-02	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “SpecificTypesIRsOfSelectedShip” notification found (a)
S3901-03	XML/SOAP Interface Requesting Incident Detail Notification – Query type = “IRsForSpecificPort” notification found (a)

S3901-04	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "GetSpecificIR" notification found (a)		
S3901-05	XML/SOAP Interface Requesting Incident Detail Notification – no notification found (b)		
S3901-06	XML/SOAP Interface Requesting Incident Detail Notification – invalid XML format (c)		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN	Message is sent out	Possible query types are: - AllIRsOfSelectedShip - SpecificTypeIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR
2 (a)	SSN sends back RECEIPT message with status code OK	Sender NCA App receives XML message with status code=OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN retrieves the relevant IR(s).
2 (b)	SSN sends back RECEIPT message with status code OK	Sender NCA App receives XML message with status code=OK	SSN receives XML message and logs it. SSN validates the format of XML message. SSN processes the contents of the XML message. SSN does not retrieve the relevant IR(s).
2 (c)	SSN validates message		SSN receives XML message and logs it. SSN validates the format of XML message - INVALID
3 (a)	SSN prepares and sends the XML response message to the requestor	Sender NCA App receives XML message	XML message is validated against XML schema / well-formed + valid.
3 (b)	SSN sends back XML message with status code=NotFound		
3 (c)	SSN sends back XML message with status code=InvalidFormat		
4	NCA App interprets XML message		
Sample XML messages			
S3901-01 - XML/SOAP Interface Requesting Incident Detail Notification – Query type = "AllIRsOfSelectedShip" notification found			
MS2SSN_IncidentReport_Req	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:32:04Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628015524684"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="AllIRsOfSelectedShip"/> <ShipIdentificationCriteria IMONumber="8422747"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req></pre>		
SSN2MS_IncidentReport_Res	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:32:05Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628015524684" SSNRefId="SOAP_MS_1628015524684" StatusCode="OK"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="AllIRsOfSelectedShip"/> <IncidentSelectionCriteria/> <ShipIdentificationCriteria IMONumber="8422747"/> </IRQueryCriteria> <ProvidedIncidentdetails> <Incidents> <IncidentIdentification Type="BannedShip" IncidentID="DE_INCI1628015524684"/> <IRDistributionDetails IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification></pre>		

	<pre> <IRVessel_IdentityVerified IMONumber="8422747"/> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <BannedShipIncidentInformation Description="BannedShipIncidentInformationDescription"/> </IncidentDetails> </Incidents> </ProvidedIncidentdetails> </Body> </SSN2MS_IncidentReport_Res> </pre>
S3901-02 - Message-based mechanism Requesting Incident Detail Notification – Query type = "SpecificTypesIRsOfSelectedShip" notification found	
MS2SSN_IncidentReport_Req	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:35:00Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628015700082"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="SpecificTypesIRsOfSelectedShip"/> <IncidentSelectionCriteria> <IncidentSelectionType Type="SITREP"/> </IncidentSelectionCriteria> <ShipIdentificationCriteria IMONumber="8422747"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req> </pre>
SSN2MS_IncidentReport_Res	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:35:00Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628015700082" SSNRefId="SOAP_MS_1628015700082" StatusCode="OK"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="SpecificTypesIRsOfSelectedShip"/> <IncidentSelectionCriteria> <IncidentSelectionType Type="SITREP"/> </IncidentSelectionCriteria> <ShipIdentificationCriteria IMONumber="8422747"/> </IRQueryCriteria> <ProvidedIncidentdetails> <Incidents> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628015700082"/> <IRDistributionDetails IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR" ActionRequestedDetail="ActionRequestedDetailExample"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8422747"/> <ShipPositionAtTimeOfIncident> <Area GeographicalArea="GeographicalAreaExample"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08- 03T18:34:00Z" Nature="Fire" J_InitialActionTaken="ActionTakeTakeTake"/> </SITREPInformation> </SITREPIncidentInformation> </pre>

	<pre> </IncidentDetails> </Incidents> </ProvidedIncidentdetails> </Body> </SSN2MS_IncidentReport_Res> </pre>
S3901-03 - Message-based mechanism Requesting Incident Detail Notification – Query type = “IRsForSpecificPort” notification found	
MS2SSN_IncidentReport_Req	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:40:55Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628016055502"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="IRsForSpecificPort"/> <GeographicCriteria PortOfDepartureQuotedInIR="DEHEN" PortOfDestinationQuotedInIR="DEHIE"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req> </pre>
SSN2MS_IncidentReport_Res	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:40:56Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628016055502" SSNRefId="SOAP_MS_1628016055502" StatusCode="OK"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="IRsForSpecificPort"/> <IncidentSelectionCriteria/> <GeographicCriteria PortOfDepartureQuotedInIR="DEHEN" PortOfDestinationQuotedInIR="DEHIE"/> </IRQueryCriteria> <ProvidedIncidentdetails> <Incidents> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628016055502"/> <IRDistributionDetails IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR" ActionRequestedDetail="ActionRequestedDetailExample"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8422747"/> <IRVoyageInformation PortOfDeparture="DEHEN" PortOfDestination="DEHIE"/> <ShipPositionAtTimeOfIncident> <Area GeographicalArea="GeographicalAreaExample"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIncidentInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08-03T18:39:55Z" Nature="Fire" J_InitialActionTaken="ActionTakeTakeTake"/> </SITREPIncidentInformation> </SITREPIncidentInformation> </IncidentDetails> </Incidents> </ProvidedIncidentdetails> </Body> </SSN2MS_IncidentReport_Res> </pre>
S3901-04 - Message-based mechanism Requesting Incident Detail Notification – Query type = “GetSpecificIR”	

notification found	
MS2SSN_IncidentReport_Req	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:33:41Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628015620906"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> <IncidentSelectionCriteria IncidentID="DE_INCI1628015620906"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req></pre>
SSN2MS_IncidentReport_Res	<pre><?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:33:41Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628015620906" SSNRefId="SOAP_MS_1628015620906" StatusCode="OK"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> <IncidentSelectionCriteria IncidentID="DE_INCI1628015620906"/> </IRQueryCriteria> <ProvidedIncidentdetails> <Incidents> <IncidentIdentification Type="SITREP" IncidentID="DE_INCI1628015620906"/> <IRDistributionDetails IRDistributionToFlagState="N"> <IRRecipient RecipientCountry="GR"/> </IRDistributionDetails> <IRVesselIdentificationList> <IRVesselIdentification> <IRVessel_IdentityVerified IMONumber="8433356"/> <ShipPositionAtTimeOfIncident> <GeoCoordinates Longitude="90" Latitude="45"/> </ShipPositionAtTimeOfIncident> </IRVesselIdentification> </IRVesselIdentificationList> <AuthorityReportingIncident> <IdentificationOfAuthority LoCode="GRPIR" Phone="+30230203" Fax="+3231323" EMail="test@nomail.com" AuthorityName="GR"/> </AuthorityReportingIncident> <IncidentDetails> <SITREPIncidentInformation> <SITREPIncidentInformation> <C_Situation MessageType="Distress" NotifiedAt="2021-08- 03T18:33:40Z" Nature="Other" E_AssistanceRequired="Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in" J_InitialActionTaken="Initial actions taken by casualty and RCC"/> </SITREPIncidentInformation> </SITREPIncidentInformation> </IncidentDetails> </Incidents> </ProvidedIncidentdetails> </Body> </SSN2MS_IncidentReport_Res></pre>
S3901-05 - Message-based mechanism Requesting Incident Detail Notification – no notification found	
MS2SSN_IncidentReport_Req	<pre><?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:47:59Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628016478648"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> <IncidentSelectionCriteria IncidentID="DE_INCI0000000000000"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req></pre>
SSN2MS_IncidentReport_Res	<pre><?xml version="1.0" encoding="UTF-8"?></pre>

ntReport_Res	<pre> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:47:59Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628016478648" SSNRefId="957176616" StatusCode="NotFound" StatusMessage="The notification details requested in the corresponding XML request message does not exist"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> <IncidentSelectionCriteria IncidentID="DE_INCI000000000000"/> </IRQueryCriteria> </Body> </SSN2MS_IncidentReport_Res> </pre>
S3901-06 - Message-based mechanism Requesting Incident Detail Notification – invalid XML message	
MS2SSN_IncidentReport_Req	<pre> <?xml version="1.0" encoding="UTF-8"?> <MS2SSN_IncidentReport_Req xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:49:38Z" TimeoutValue="60" From="SOAPUI_V5_DE_IR_REQ" To="SafeSeaNet" MSRefId="SOAP_MS_1628016578076"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> </IRQueryCriteria> </Body> </MS2SSN_IncidentReport_Req> </pre>
SSN2MS_IncidentReport_Res	<pre> <?xml version="1.0" encoding="UTF-8"?> <SSN2MS_IncidentReport_Res xmlns="urn:eu.emsa.ssn"> <Header Version="5.0" SentAt="2021-08-03T18:49:38Z" From="SafeSeaNet" To="SOAPUI_V5_DE_IR_REQ" MSRefId="SOAP_MS_1628016578076" SSNRefId="957176629" StatusCode="InvalidFormat" StatusMessage="Invalid Parameters"/> <Body> <IRQueryCriteria> <TypeOfQuery GetIRInformation="GetSpecificIR"/> <IncidentSelectionCriteria/> </IRQueryCriteria> </Body> </SSN2MS_IncidentReport_Res> </pre>