Annex

Introduction to the commissing tests plan document for the new IR protocol integrated into the SSN version compliant with XML RG v2.07

1 CONFIGURATION OF USERS IN THE MANAGEMENT CONSOLE FOR SSN TEST INSTALLATION

The central SSN system installed in the test environment should be properly configured to simulate the expected behaviour of MS systems, other than those to be commissioned. For example, for use case[1] UC-IR-1 (provision of IR notification or feedback report), the central SSN system could simulate the IR distribution process via email to the recipient countries (i.e. even those not wishing to implement the new IR framework as per XML RG 2.07). In order to proceed with the tests, MSs are invited to indicate the way in which they wish to receive the distributed IRs (via XML/SOAP, email or both[2]).

As a consequence, prior to the launch of the commissioning tests for the IR XML interface, all MSs are invited to configure their users (persons or authorities) using the SSN management console in the training environment.

In this respect, the following points should be noted:

a. In the test environment, SSN NCAs are required to configure their authorities/persons who are allowed to send or receive IRs and feedback via XML/SOAP or email. In such a way, the tests environment could be used by:
   - MSs implementing the new IR protocol, and;
   - other MSs which use the web interface.

b. A data recipient can receive IR messages and feedback via XML/SOAP, email or both. In addition, the email distribution allows for the association of a specific incident type to the relevant users (e.g. user "AAA" will receive only SITREPS, user "BBB" only POLREPs, etc). In order to ensure that the commissioning tests are effective, and to avoid "spamming" to the real email boxes, it is proposed that MSs should create specific email addresses for test purposes for those users who will receive distributed IRs via email.

   In this respect, the email addresses should be configured in the test environment in line with the following principles:
   - one valid email address[3].
   - one invalid email address[4].
   - one valid email address simulating the NCA 24/7.

[1] Use cases are described in the next chapter

[2] Each specific user/authority can receive IR messages only in one way (XML, SOAP or email).

[3] A valid address is one properly formatted, as per SMTP protocol, and the e-mail account is actually used in the organisation of the user e.g. testIRdistributionSITREP@icg.it corresponds to a possible e-mail box configured to receive test SITREPs in the ICG server. It is suggested to create 1 email user per IR type.

[4] An invalid address is one properly formatted, as per the SMTP protocol, but corresponding to a non-existent email user in the Authority's server. It is suggested to create 1 email user per IR type.

The central SSN system shall:

- verify the IR messaging distribution and send the consolidated acknowledgement (SSN2MS_IncidentDetail_Tx_Ack) to the data provider, and;
- should there be a failure in the distribution process, start the management process, in which case the central SSN system sends an email to the relevant NCA 24/7 and to the EMSA MSS.

c. MSs wishing to implement the protocol in accordance with XML RG 2.07 should also configure a valid XML or SOAP address for sending/receiving IR messages.

Set-up of users via the SSN management console

The following permissions are required in order to set up users effectively:

- for users receiving via XML/SOAP, both ALERT_<IncidentReport>_REQUESTOR and INCIDENT_REP_RECIPIENT shall be quoted.

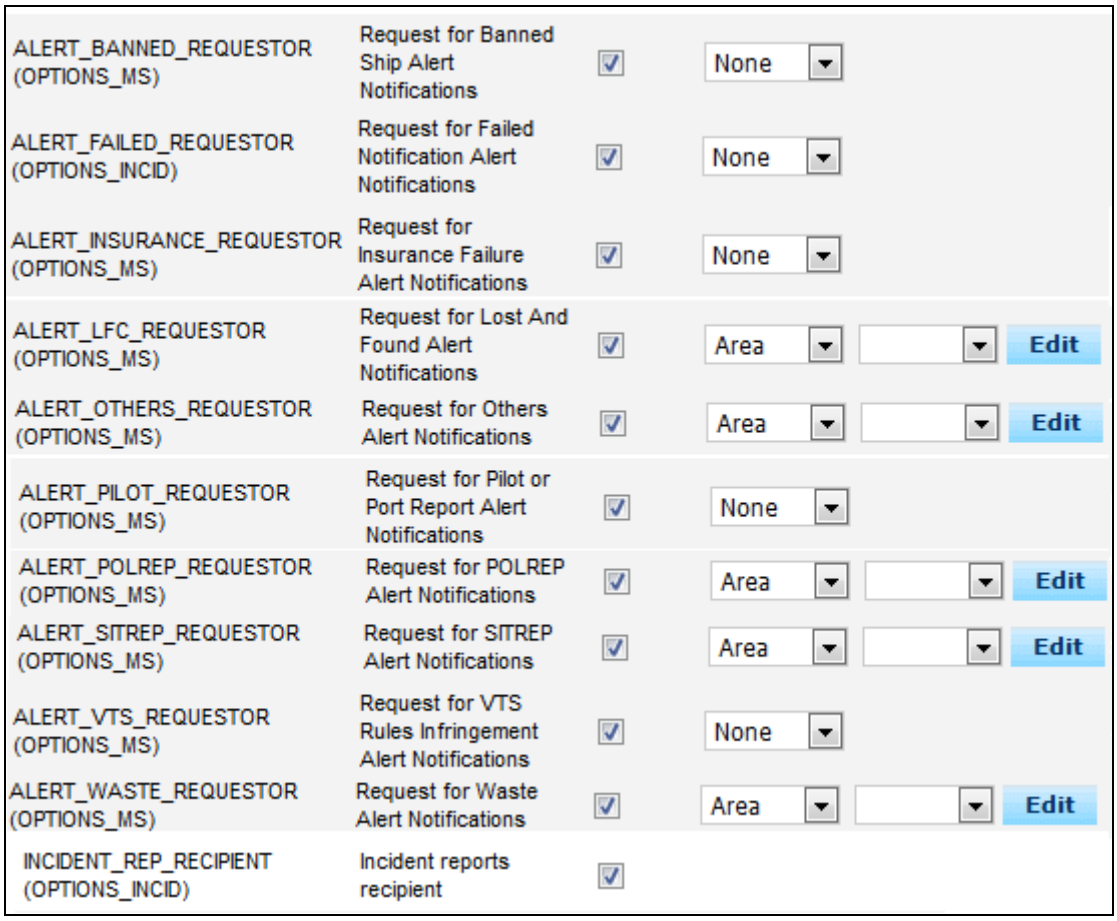

Figure 1 – Configuration of an XML/SOAP user

- for users receiving via email: both ALERT_<IncidentReport>_REQUESTOR and INCIDENT_REP_RECIPIENT_EMAIL shall be quoted.
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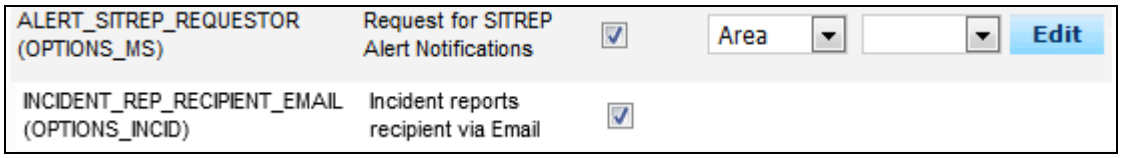

Figure 2 - Configuration of an email user (e.g. granted to receive SITREPs)

Should both "INCIDENT_REP_RECIPIENT" and "INCIDENT_REP_RECIPIENT_EMAIL" be associated to an individual user, the user will only receive the incident report via XML/SOAP.

2 USE CASES FOR THE COMMISSIONING TESTS AND ACTIONS EXPECTED FROM MS WHEN EXECUTING TESTS

For the purpose of undertaking the 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-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.
UC-IR-2	Reception of IR notifications or feedback via XML or SOAP interface.	• MS application acting as data recipient • Central SSN system	The central SSN system will simulate the data provider for the purposes of the commissioning test.
UC-IR-3	IR request/ response using XML or SOAP interface	• MS application acting as data requestor and response recipient • Central SSN central system	The central SSN will provide the relevant IR information to the data requestor, depending on the selected criteria.

A **use case** is a generic activity that could be executed by users (e.g. send/receive a notification and request/response).

Each use case is divided into specific **test cases,** based on the relevant workflow (creation/update/deletion of Incident reports).

Furthermore, each test case is further divided into **test scenarios,** taking into account the incident type, the distribution method and the content of the messages exchanged.

The description of the test scenarios makes reference to the expected workflow between the national application under commissioning and the central SSN system.

In this respect, the following details are already included:

- a description of each step in the message exchange workflow.
- the actions executed by the system acting as data provider or data recipient.
- the expected result(s) of the actions.

When executing the test, the MS should add in the commissioning test report:

- the actual result (PASS or FAIL), and;
- comments (if any).

When testing scenarios under "normal" flow, a valid XML message with the correct data must be supplied by the system which is acting as data provider.

The commissioning test plan proposes tests related to the dispatch of messages with invalid content. This is to ensure that the national SSN system prevents the sending of invalid XML messages, or messages that do not comply with the business rules. By definition, the expected result of these test cases will be "FAIL."

The final edition of the commissioning test plan shall include indicative XML messages with indicative content for the execution of certain test scenarios.

3 USE CASE UC-IR-1: PROVISION OF INCIDENT REPORT NOTIFICATIONS OR FEEDBACK REPORTS

Use Case Description
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 a MS other than the original sender (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).

System involved in the commissioning tests
This diagram depicts the systems involved in the commissioning tests and the message flows for this use case[5].

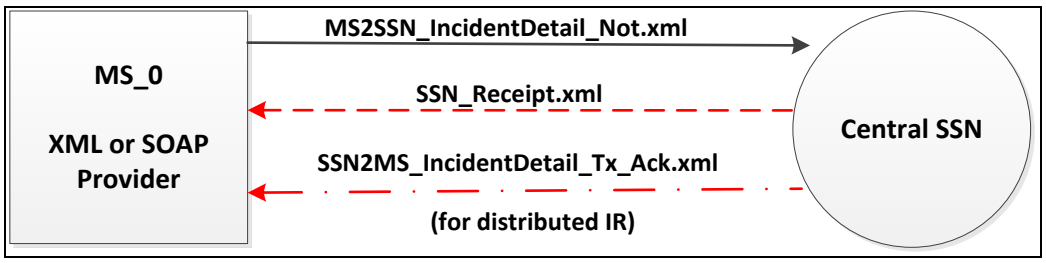

Figure 3 – Systems involved in the commissioning tests (use case UC-IR-1)

[5] MS_0 is the original IR provider via XML or SOAP

Test Cases

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

Test Case Id	Description
TC - 3701	XML/SOAP interface sending new notification - Normal flow Successful
TC - 3702	XML/SOAP interface updating a notification
TC - 3703	XML/SOAP interface deleting a notification
TC - 3704	XML/SOAP interface sending a notification – Invalid message

Test Scenarios

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

TC – 3701 XML interface sending new notification– Normal flow successful		
Mandatory for MS	**Scenario Id**	**Description**
X	TC- 3701_01	XML/SOAP interface sending new IR notification e.g. "SITREP" (not distributed) - Normal flow Successful
X	TC- 3701_02	XML/SOAP interface sending new IR notification "WASTE" (distributed) - Normal flow Successful
X	TC- 3701_03	XML/SOAP interface 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	TC- 3701_04	XML interface sending new IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful
X	TC- 3701_05	XML/SOAP interface sending new IR notification "LOST&FOUND" (distributed) - Normal flow Successful
X	TC- 3701_06	XML/SOAP interface sending new IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
X	TC- 3701_07	XML/SOAP interface sending new IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
X	TC- 3701_08	XML/SOAP interface sending new IR notification "BANNED_SHIP" (distributed) - Normal flow Successful
X	TC- 3701_09	XML/SOAP interface sending new IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful
X	TC- 3701_10	XML/SOAP interface sending new IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
X	TC- 3701_11	XML/SOAP interface sending new IR notification "OTHER" (distributed) - Normal flow Successful
X	TC- 3701_12	XML/SOAP interface sending new feedback on "SITREP" (not distributed) - Normal flow Successful
X	TC- 3701_13	XML/SOAP interface sending new feedback on "WASTE" (distributed) - Normal flow Successful
--	TC- 3701_14	XML/SOAP interface sending new feedback on "SITREP" (distributed) - Normal flow Successful
--	TC- 3701_15	XML/SOAP interface sending new feedback on "POLREP" (distributed) - Normal flow Successful
--	TC- 3701_16	XML/SOAP interface sending new feedback on "LOST&FOUND" (distributed) - Normal flow Successful
--	TC- 3701_17	XML/SOAP interface sending new feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
--	TC- 3701_18	XML/SOAP interface sending new feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
--	TC- 3701_19	XML/SOAP interface sending new feedback on "BANNED_SHIP" (distributed) - Normal flow Successful
--	TC- 3701_20	XML/SOAP interface sending new feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful
--	TC- 3701_21	XML/SOAP interface sending new feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
--	TC- 3701_22	XML/SOAP interface sending new feedback on "OTHER" (distributed) - Normal flow Successful

TC – 3702 XML/SOAP interface updating a notification		
Mandatory for MS	**Scenario Id**	**Description**
X	TC- 3702_01	XML/SOAP interface updating IR notification e.g. "SITREP" (not distributed) - Normal flow Successful
X	TC- 3702_02	XML/SOAP interface updating IR notification "WASTE" (distributed) - Normal flow Successful
X	TC- 3702_03	XML/SOAP interface updating IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful
X	TC- 3702_04	XML/SOAP interface updating IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful
X	TC- 3702_05	XML/SOAP interface updating IR notification "LOST&FOUND" (distributed) - Normal flow Successful
X	TC- 3702_06	XML/SOAP interface updating IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
X	TC- 3702_07	XML/SOAP interface updating IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
X	TC- 3702_08	XML/SOAP interface updating IR notification "BANNED_SHIP" (distributed) - Normal flow Successful
X	TC- 3702_09	XML/SOAP interface updating IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful
X	TC- 3702_10	XML/SOAP interface updating IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
X	TC- 3702_11	XML/SOAP interface updating IR notification "OTHER" (distributed) - Normal flow Successful
X	TC- 3702_12	XML/SOAP interface updating feedback on "SITREP" (not distributed) - Normal flow Successful
X	TC- 3702_13	XML/SOAP interface updating feedback on "WASTE" (distributed) - Normal flow Successful
--	TC- 3702_14	XML/SOAP interface updating feedback on "SITREP" (distributed) - Normal flow Successful
--	TC- 3702_15	XML/SOAP interface updating feedback on "POLREP" (distributed) - Normal flow Successful
--	TC- 3702_16	XML/SOAP interface updating feedback on "LOST&FOUND" (distributed) - Normal flow Successful
--	TC- 3702_17	XML/SOAP interface updating feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
--	TC- 3702_18	XML/SOAP interface updating feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
--	TC- 3702_19	XML/SOAP interface updating feedback on "BANNED_SHIP" (distributed) - Normal flow Successful
--	TC- 3702_20	XML/SOAP interface updating feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful
--	TC- 3702_21	XML/SOAP interface updating feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
--	TC- 3702_22	XML/SOAP interface updating feedback on "OTHER" (distributed) - Normal flow Successful
X	TC- 3702_23	XML/SOAP interface updating IR notification e.g. "SITREP" (distributed) – IR not found
X	TC- 3702_24	XML/SOAP interface updating feedback on e.g. "SITREP" (distributed)– Feedback not found

TC – 3703 XML/SOAP interface deleting a notification		
Mandatory for MS	**Scenario Id**	**Description**
X	TC- 3703_01	XML/SOAP interface deleting IR notification e.g. "SITREP" (not distributed) - Normal flow Successful
X	TC- 3703_02	XML/SOAP interface deleting IR notification "WASTE" (distributed) - Normal flow Successful
X	TC- 3703_03	XML/SOAP interface deleting IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful
X	TC- 3703_04	XML/SOAP interface deleting IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful
X	TC- 3703_05	XML/SOAP interface deleting IR notification "LOST&FOUND" (distributed) - Normal flow Successful

TC – 3703 **XML/SOAP interface deleting a notification**		
Mandatory for MS	**Scenario Id**	**Description**
X	TC- 3703_06	XML/SOAP interface deleting IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
X	TC- 3703_07	XML/SOAP interface deleting IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
X	TC- 3703_08	XML/SOAP interface deleting IR notification "BANNED_SHIP" (distributed) - Normal flow Successful
X	TC- 3703_09	XML/SOAP interface deleting IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful
X	TC- 3703_10	XML/SOAP interface deleting IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
X	TC- 3703_11	XML/SOAP interface deleting IR notification "OTHER" (distributed) - Normal flow Successful
X	TC- 3703_12	XML/SOAP interface deleting feedback on "SITREP" (not distributed) - Normal flow Successful
X	TC- 3703_13	XML/SOAP interface deleting feedback on "WASTE" (distributed) - Normal flow Successful
--	TC- 3703_14	XML/SOAP interface deleting feedback on "SITREP" (distributed) - Normal flow Successful
--	TC- 3703_15	XML/SOAP interface deleting feedback on "POLREP" (distributed) - Normal flow Successful
--	TC- 3703_16	XML/SOAP interface deleting feedback on "LOST&FOUND" (distributed) - Normal flow Successful
--	TC- 3703_17	XML/SOAP interface deleting feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
--	TC- 3703_18	XML/SOAP interface deleting feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
--	TC- 3703_19	XML/SOAP interface deleting feedback on "BANNED_SHIP" (distributed) - Normal flow Successful
--	TC- 3703_20	XML/SOAP interface deleting feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful
--	TC- 3703_21	XML/SOAP interface deleting feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
--	TC- 3703_22	XML/SOAP interface deleting feedback on "OTHER" (distributed) - Normal flow Successful
X	TC- 3703_23	XML/SOAP interface deleting IR notification e.g. "SITREP" (distributed) – IR not found
X	TC- 3703_24	XML/SOAP interface deleting feedback on e.g. "SITREP" (distributed) – Feedback not found

TC – 3704 **XML/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	**Scenario Id**	**Description**
X	TC-3704_01	XML/SOAP interface sending/updating IR - "Feedback" element node not allowed
X	TC-3704_02	XML/SOAP interface sending/updating IR - Invalid "IMO" (<>7 Chars)
X	TC-3704_03	XML/SOAP interface sending/updating IR - Invalid "MMSI" (<>9 Chars)
X	TC-3704_04	XML/SOAP interface sending/updating IR - No attribute "Type"
X	TC-3704_05	XML/SOAP interface sending/updating IR - No attribute "IncidentID"
X	TC-3704_06	XML/SOAP interface sending IR - Same "IncidentID" as a previous one
X	TC-3704_07	XML/SOAP interface sending/updating IR - No attribute "UpdateStatus"
X	TC-3704_08	XML/SOAP interface sending/updating IR - No attributes "IMO" or "MMSI" or "IRNumber_FishingVessel" if "Type"=WasteIncident" - "FailedNotification", "VTSRulesInfringement" - "BannedShip" - "ResultInspection" - "InsuranceFailure" - "PiloOrPortReport"
X	TC-3704_09	XML/SOAP interface sending/updating IR - No attribute "DescribeVessel" if "IMO" or "MMSI" or "IRNumber_FishingVessel" are not provided
X	TC-3704_10	XML/SOAP interface sending/updating IR - No attribute "DistributionIR_yes_no"
X	TC-3704_11	XML/SOAP interface sending/updating IR - No attributes "RecipientCountry" or "IRDistributionToFlagState" if "DistributionIR_yes_no"=YES (if the vessel is identified and EU flag)

TC – 3704
XML/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	Scenario Id	Description
X	TC-3704_12	XML/SOAP interface sending/updating IR - No attributes "URL" nor "DocType" if no "LoCode" nor "Phone" nor "Fax" are quoted (if the CargoManifest element is provided)
X	TC-3704_13	XML/SOAP interface sending/updating IR - No attributes "LoCode" nor "Phone" nor "Fax" if "URL" and "DocType" are not quoted (if the CargoManifest element is provided)
X	TC-3704_14	XML/SOAP interface 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	TC-3704_15	XML/SOAP interface 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	TC-3704_16	XML/SOAP interface 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	TC-3704_17	XML/SOAP interface 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	TC-3704_18	XML/SOAP interface 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	TC-3704_19	XML/SOAP interface 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	TC-3704_20	XML/SOAP interface 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	TC-3704_21	XML/SOAP interface 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	TC-3704_22	XML/SOAP interface 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	TC-3704_23	XML/SOAP interface 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	TC-3704_24	XML/SOAP interface sending/updating IR - No "SSNUserID" attribute is quoted if no "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are provided
X	TC-3704_25	XML/SOAP interface sending/updating IR - No "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are quoted if "SSNUserID" attribute is not provided
X	TC-3704_26	XML/SOAP interface sending/updating IR - Only three or less attributes from "AuthorityName", "LoCode", "Phone" and "Fax" attributes are provided (Element: "IdentificationOfAuthority")
X	TC-3704_27	XML/SOAP interface sending/updating IR - No "DocType" nor "Base64Content" if IR details are not provided via XML (i.e. IncidentDetails element not quoted)
X	TC-3704_28	XML/SOAP interface sending/updating IR (WASTE) - If attribute "Type"=WASTE then all other elements child of IncidentDetail (except "WasteIncidentInformation") are not allowed
X	TC-3704_29	XML/SOAP interface sending/updating IR (WASTE) - Only one or two attributes from "WasteDeliveryDuePort", "ETD" and "InspectionReason" are provided (element: "NonComplianceinformation")
X	TC-3704_30	XML/SOAP interface sending/updating IR (WASTE) - Attribute "Deficiencies" is not quoted if "ActionTaken" is provided
X	TC-3704_31	XML/SOAP interface sending/updating IR (WASTE) - Attribute "ActionTaken" is not quoted if "Deficiencies" is provided
X	TC-3704_32	XML/SOAP interface sending/updating IR (WASTE) - No "Name" nor "Phone" attributes are quoted
X	TC-3704_33	XML/SOAP interface sending/updating IR (SITREP) - If attribute "Type"=SITREP then all other elements child of IncidentDetail (except "SITREPIncidentInformation") are not allowed
X	TC-3704_34	XML/SOAP interface sending/updating IR (SITREP) - No "MessageType" is quoted

TC – 3704 **XML/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	**Scenario Id**	**Description**
X	TC-3704_35	XML/SOAP interface sending/updating IR (SITREP) - "NotifiedAt" attribute missing or not technically formatted
X	TC-3704_36	XML/SOAP interface sending/updating IR (SITREP) - No "Nature" attribute is quoted
X	TC-3704_37	XML/SOAP interface sending/updating IR (SITREP) - No "J_InitialActionTaken" attribute is quoted
X	TC-3704_38	XML/SOAP interface sending/updating IR (POLREP) - If attribute "Type"=POLREP then all other elements child of IncidentDetail (except "POLREPIncidentInformation") are not allowed
X	TC-3704_39	XML/SOAP interface sending/updating IR (POLREP) - "P1_DateTime" not technically formatted
X	TC-3704_40	XML/SOAP interface sending/updating IR (POLREP) - "P1_DateTime" missing (if "POLINF" and "POLFAC" elements are not provided)
X	TC-3704_41	XML/SOAP interface sending/updating IR (POLREP)- No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are provided (if "POLINF" and "POLFAC" elements are not provided)
X	TC-3704_42	XML/SOAP interface sending/updating IR (POLREP) - No "Longitude" if "Latitude" is quoted
X	TC-3704_43	XML/SOAP interface sending/updating IR (POLREP) - No "Latitude" if "Longitude" is quoted
X	TC-3704_44	XML/SOAP interface sending/updating IR (POLREP) - No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted (if "POLINF" and "POLFAC" elements are not provided)
X	TC-3704_45	XML/SOAP interface sending/updating IR (POLREP) - No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted (if "POLINF" and "POLFAC" elements are not provided)
X	TC-3704_46	XML/SOAP interface 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	TC-3704_47	XML/SOAP interface sending/updating IR (POLREP) - No "Speed" if "Direction" is quoted ("P44_Wind" element)
X	TC-3704_48	XML/SOAP interface sending/updating IR (POLREP) - "P40_DateTime" not technically formatted
X	TC-3704_49	XML/SOAP interface sending/updating IR (POLREP) - No "Direction" if "Speed" is quoted ("P44_Wind" element)
X	TC-3704_50	XML/SOAP interface sending/updating IR (POLREP) - No "Speed" if "Direction" is quoted ("P45_Tide" element)
X	TC-3704_51	XML/SOAP interface sending/updating IR (POLREP) - No "Direction" if "Speed" is quoted ("P45_Tide" element)
X	TC-3704_52	XML/SOAP interface sending/updating IR (POLREP) - No "WaveHeight" if "P46_SeaState" element is quoted
X	TC-3704_53	XML/SOAP interface sending/updating IR (POLREP) - No "DriftCourse" if "DriftSpeed" is quoted ("P47_PollutionDrift" element)
X	TC-3704_54	XML/SOAP interface sending/updating IR (POLREP) - No "DriftSpeed" if "DriftCourse" is quoted ("P47_PollutionDrift" element)
X	TC-3704_55	XML/SOAP interface sending/updating IR (POLREP) - No "Name" nor "P50_ActionTaken" if element "P49_ObserverIdentity" is quoted
X	TC-3704_56	XML/SOAP interface sending/updating IR (POLREP) - No "Name" if element "P52_InformedStateOrg" is quoted
X	TC-3704_57	XML/SOAP interface sending/updating IR (POLREP) - "P80_DateTime" not technically formatted
X	TC-3704_58	XML/SOAP interface sending/updating IR (POLREP) - No "Name" if element "P85_InformedStateOrg" is quoted
X	TC-3704_59	XML/SOAP interface sending/updating IR (LOST&FOUND) - If attribute "Type"=LOSTFOUND then all other elements child of IncidentDetail (except "LostFoundObjectIncidentInformation") are not allowed
X	TC-3704_60	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "DateTimeReportLostFoundObject" attribute
X	TC-3704_61	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "P1_ReportType" attribute
X	TC-3704_62	XML/SOAP interface sending/updating IR (LOST&FOUND) - No attributes "IMO" nor "MMSI" nor "Other"

TC – 3704
XML/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	Scenario Id	Description
X	TC-3704_63	XML/SOAP interface sending/updating IR (LOST&FOUND) - No attributes "Longitude" nor "Latitude" are quoted if no "GeographicArea" nor "Bearing" nor "Distance" nor "Mark" are provided
X	TC-3704_64	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Longitude" if "Latitude" is quoted
X	TC-3704_65	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Latitude" if "Longitude" is quoted
X	TC-3704_66	XML/SOAP interface sending/updating IR (LOST&FOUND) - No attribute "GeographicArea" is quoted if no "Longitude" nor "Latitude" nor "Bearing" nor "Distance" nor "Mark" are quoted
X	TC-3704_67	XML/SOAP interface sending/updating IR (LOST&FOUND) - No attributes "Bearing" nor "Distance" nor "Mark" are quoted if no "Longitude" nor "Latitude" nor "GeographicArea" are quoted
X	TC-3704_68	XML/SOAP interface 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	TC-3704_69	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Description" attribute if "Object" element is quoted
X	TC-3704_70	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Speed" if "Direction" is quoted ("Wind" element)
X	TC-3704_71	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Direction" if "Speed" is quoted ("Wind" element)
X	TC-3704_72	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Speed" if "Direction" is quoted ("Tide" element)
X	TC-3704_73	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "Direction" if "Speed" is quoted ("Tide" element)
X	TC-3704_74	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "WaveHeight" if "SeaState" element is quoted
X	TC-3704_75	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "DriftCourse" if "DriftSpeed" is quoted ("ObjectDrift" element)
X	TC-3704_76	XML/SOAP interface sending/updating IR (LOST&FOUND) - No "DriftSpeed" if "DriftCourse" is quoted ("ObjectDrift" element)
X	TC-3704_77	XML/SOAP interface sending/updating IR (FAILED_NOTIFICATION) - If attribute "Type"= FailedNotification then all other elements child of IncidentDetail (except "FailedNotificationIncidentInformation") are not allowed
X	TC-3704_78	XML/SOAP interface sending/updating IR (VTS_RULES_INFRINGEMENT) - If attribute "Type"= VTSRulesInfringement then all other elements child of IncidentDetail (except "VTSRulesInfringementIncidentInformation") are not allowed
X	TC-3704_79	XML/SOAP interface sending/updating IR (BANNED_SHIP) - If attribute "Type"= BannedShip then all other elements child of IncidentDetail (except "BannedShipIncidentInformation") are not allowed
X	TC-3704_80	XML/SOAP interface sending/updating IR (INSURANCE_FAILURE) - If attribute "Type"= InsuranceFailure then all other elements child of IncidentDetail (except "InsuranceFailureIncidentInformation") are not allowed
X	TC-3704_81	XML/SOAP interface sending/updating IR (PILOT_PORT_REPORT) - If attribute "Type"= PilotPort then all other elements child of IncidentDetail (except "PilotPortIncidentInformation") are not allowed
X	TC-3704_82	XML/SOAP interface sending/updating IR (OTHER) - If attribute "Type"= Other then all other elements child of IncidentDetail (except "OtherIncidentInformation") are not allowed
X	TC-3704_83	XML/SOAP interface sending/updating feedback - "Incident" element node not allowed
X	TC-3704_84	XML/SOAP interface sending/updating feedback - No attribute "FeedbackID"
X	TC-3704_85	XML/SOAP interface sending feedback - Same "FeedbackID" than a previous one
X	TC-3704_86	XML/SOAP interface sending/updating feedback - No attribute "IncidentID"
X	TC-3704_87	XML/SOAP interface sending/updating feedback - No attribute "UpdateStatus"
X	TC-3704_88	XML/SOAP interface sending/updating feedback - No attribute "UpdateMSRefID"
X	TC-3704_89	XML/SOAP interface sending/updating feedback - No attribute "DistributionFeedback_yes_no"
X	TC-3704_90	XML/SOAP interface sending/updating feedback - No attributes "RecipientCountry" or "FeedbackDistributionToFlagState" if "DistributionIR_yes_no"=YES (if the vessel is identified and its flag participates to SSN)

TC – 3704 **XML/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	**Scenario Id**	**Description**
X	TC-3704_91	XML/SOAP interface sending/updating feedback - No "SSNUserID" attribute is quoted if no "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are provided
X	TC-3704_92	XML/SOAP interface sending/updating feedback - No "AuthorityName" nor "LoCode" nor "Phone" nor "Fax" attributes are quoted if "SSNUserID" attribute is not provided
X	TC-3704_93	XML/SOAP interface sending/updating feedback -Only three or less attributes from "AuthorityName", "LoCode", "Phone" and "Fax" attributes are provided (Element: "IdentificationOfAuthority")
X	TC-3704_94	XML/SOAP interface sending/updating feedback - No "DocType" nor "Base64Content" if IR details are provided as an attached document
X	TC-3704_95	XML/SOAP interface sending/updating feedback - No "DateTimeReportAction" is quoted if "Details" is provided
X	TC-3704_96	XML/SOAP interface sending/updating feedback - No "Details" is quoted if "DateTimeReportAction" is provided
X	TC-3704_97	XML/SOAP interface updating IR: "Type" of the incident cannot be changed
X	TC-3704_98	XML/SOAP interface sending/updating IR. Validation check: a user quoting "Incident" element cannot provide "Feedback" element for the same message
X	TC-3704_99	XML/SOAP interface sending/updating IR. Validation check: a user quoting "Feedback" element cannot provide "Incident" element for the same message

Test Scenario details

The expected workflow for the test scenarios is herein described:

Scenario			
TC- 3701_01	XML/SOAP interface sending new IR notification e.g. "SITREP" (not distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN (Non-distributed)	Message is sent out	
2	SSN sends back RECEIPT message with status code OK[6]	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.
3	Sender NCA App interprets XML message		

Scenarios			
TC- 3701_02	XML/SOAP interface sending new IR notification "WASTE" (distributed) - Normal flow Successful		
TC- 3701_03	XML/SOAP interface sending new IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful		
TC- 3701_04	XML/SOAP interface sending new IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful		
TC- 3701_05	XML/SOAP interface sending new IR notification "LOST&FOUND" (distributed) - Normal flow Successful		
TC- 3701_06	XML/SOAP interface sending new IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC- 3701_07	XML/SOAP interface sending new IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC- 3701_08	XML/SOAP interface sending new IR notification "BANNED_SHIP" (distributed) - Normal flow Successful		
TC- 3701_09	XML/SOAP interface sending new IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC- 3701_10	XML/SOAP interface sending new IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC- 3701_11	XML/SOAP interface sending new IR notification "OTHER" (distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes

[6] 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".

1	NCA App sends out XML message to SSN	Message is sent out	NCA selects the recipient countries in the distribution element (depending on the configuration in the management console).
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.
3	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		

Scenario			
TC- 3701_12	XML/SOAP interface sending new feedback on "SITREP" (not distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN (non-distributed).	Message is sent 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.
3	Sender NCA App interprets XML message		

Scenarios			
TC- 3701_13	XML/SOAP interface sending new feedback on "WASTE" (distributed) - Normal flow Successful		
TC- 3701_14	XML/SOAP interface sending new feedback on "SITREP" (distributed) - Normal flow Successful		
TC- 3701_15	XML/SOAP interface sending new feedback on "POLREP" (distributed) - Normal flow Successful		
TC- 3701_16	XML/SOAP interface sending new feedback on "LOST&FOUND" (distributed) - Normal flow Successful		
TC- 3701_17	XML/SOAP interface sending new feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC- 3701_18	XML/SOAP interface sending new feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC- 3701_19	XML/SOAP interface sending new feedback on "BANNED_SHIP" (distributed) - Normal flow Successful		
TC- 3701_20	XML/SOAP interface sending new feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC- 3701_21	XML/SOAP interface sending new feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC- 3701_22	XML/SOAP interface sending new 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 provided (e.g. specific query is run)	Relevant IR is retrieved	Users other that 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	Sender NCA App receives XML	SSN receives XML message and logs it SSN validates the format of XML message

	status code=OK	message with status code=OK	SSN processes the contents of the XML message SSN stores XML message contents in index dbase
4	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		

Scenario			
TC- 3702_01	XML/SOAP interface updating IR notification e.g. "SITREP" (not 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.
2	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 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.
4	Sender NCA App interprets XML message		

Scenarios			
TC- 3702_02	XML/SOAP interface updating IR notification "WASTE" (distributed) - Normal flow Successful		
TC- 3702_03	XML/SOAP interface updating IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful		
TC- 3702_04	XML/SOAP interface updating IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful		
TC- 3702_05	XML/SOAP interface updating IR notification "LOST&FOUND" (distributed) - Normal flow Successful		
TC- 3702_06	XML/SOAP interface updating IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC- 3702_07	XML/SOAP interface updating IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC- 3702_08	XML/SOAP interface updating IR notification "BANNED_SHIP" (distributed) - Normal flow Successful		
TC- 3702_09	XML/SOAP interface updating IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC- 3702_10	XML/SOAP interface updating IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC- 3702_11	XML/SOAP interface 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.

2	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).
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	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		

Scenario			
TC- 3702_12	XML/SOAP interface updating feedback on "SITREP" (not 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 notification.
2	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)..
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	Sender NCA App interprets XML message		

Scenarios	
TC- 3702_13	XML/SOAP interface updating feedback on "WASTE" (distributed) - Normal flow Successful
TC- 3702_14	XML/SOAP interface updating feedback on "SITREP" (distributed) - Normal flow Successful
TC- 3702_15	XML/SOAP interface updating feedback on "POLREP" (distributed) - Normal flow Successful
TC- 3702_16	XML/SOAP interface updating feedback on "LOST&FOUND" (distributed) - Normal flow Successful
TC- 3702_17	XML/SOAP interface updating feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
TC- 3702_18	XML/SOAP interface updating feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
TC- 3702_19	XML/SOAP interface updating feedback on "BANNED_SHIP" (distributed) - Normal flow Successful
TC- 3702_20	XML/SOAP interface updating feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful
TC- 3702_21	XML/SOAP interface updating feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow

	Successful		
TC- 3702_22	XML/SOAP interface 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.
2	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.
4	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		

Scenarios			
TC- 3702_23	XML/SOAP interface updating IR notification e.g. "SITREP" (distributed) – IR not found		
TC- 3702_24	XML/SOAP interface 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=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		

Scenario			
TC- 3703_01	XML/SOAP interface deleting IR notification e.g. "SITREP" (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	Only the original IR provider has the right to delete its IR notification

		the IncidentID	
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		

Scenarios			
TC- 3703_02	XML/SOAP interface deleting IR notification "WASTE" (distributed) - Normal flow Successful		
TC- 3703_03	XML/SOAP interface deleting IR notification "SITREP" (distributed) – 4 vessels are involved (2 EU flag, 1 not-EU flag and 1 not identified) - Normal flow Successful		
TC- 3703_04	XML/SOAP interface deleting IR notification "POLREP" (distributed) – POLREP is associated to a SITREP - Normal flow Successful		
TC- 3703_05	XML/SOAP interface deleting IR notification "LOST&FOUND" (distributed) - Normal flow Successful		
TC- 3703_06	XML/SOAP interface deleting IR notification "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC- 3703_07	XML/SOAP interface deleting IR notification "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC- 3703_08	XML/SOAP interface deleting IR notification "BANNED_SHIP" (distributed) - Normal flow Successful		
TC- 3703_09	XML/SOAP interface deleting IR notification "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC- 3703_10	XML/SOAP interface deleting IR notification "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC- 3703_11	XML/SOAP interface deleting 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 (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 send out	
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. SSN notifes the deletion to the recipients which have previously received the IR (depending on their configuration: via XML/SOAP/email).
4	Sender NCA App interprets XML message		

Scenario			
TC- 3703_12	XML/SOAP interface deleting feedback on "SITREP" (not distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA retrieves the feedback to be deleted (e.g. specific query is run)	Relevant feedback (Non-distributed) is retrieved based on the IncidentID and feedbackID	Only the feedback provider has the right to delete its feedback
2	NCA App sends out XML message to SSN	Message is sent out	
3	SSN sends back RECEIPT	SSN sends back XML	SSN receives XML message and logs it.

	message with status code=OK	message with status code OK	SSN validates the format of XML message. SSN processes the contents of the XML message. SSN stores XML message contents in index dbase. Feedback is deleted. Original IR notification is NOT deleted.
4	Sender NCA App interprets XML message		

Scenario			
TC- 3703_13	XML/SOAP interface deleting feedback on "WASTE" (distributed) - Normal flow Successful		
TC- 3703_14	XML/SOAP interface deleting feedback on "SITREP" (distributed) - Normal flow Successful		
TC- 3703_15	XML/SOAP interface deleting feedback on "POLREP" (distributed) - Normal flow Successful		
TC- 3703_16	XML/SOAP interface deleting feedback on "LOST&FOUND" (distributed) - Normal flow Successful		
TC- 3703_17	XML/SOAP interface deleting feedback on "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC- 3703_18	XML/SOAP interface deleting feedback on "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC- 3703_19	XML/SOAP interface deleting feedback on "BANNED_SHIP" (distributed) - Normal flow Successful		
TC- 3703_20	XML/SOAP interface deleting feedback on "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC- 3703_21	XML/SOAP interface deleting feedback on "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC- 3703_22	XML/SOAP interface deleting feedback on "OTHER" (distributed) - Normal flow Successful		
Step	Action/ input	Result/output	Notes
1	NCA retrieves the feedback to be deleted (e.g. specific query is run)	Relevant feedback (Non-distributed) is retrieved based on the IncidentID and feedbackID	Only the feedback provider has the right to delete its feedback
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. Feedback is deleted. SSN notifes the deletion to the recipients which have previously received the feedback (depending on their configuration: via XML/SOAP/email). Original IR notification is NOT deleted.
4	Sender NCA App interprets XML message		

Scenarios			
TC- 3703_23	XML/SOAP interface deleting IR notification e.g. "SITREP" (distributed) – IR not found		
TC- 3703_24	XML/SOAP interface 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		

Scenarios			
From TC- 3704_01 to TC- 3704_99			
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		

4 USE CASE UC-IR-2:RECEPTION OF INCIDENT REPORT NOTIFICATIONS OR FEEDBACK REPORTS

Use Case Description
The data receiver received 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 and/or email.
- The MS sends back a receipt to SSN

System involved in the commissioning tests

The following diagram depicts the systems involved in the commissioning tests and the message flows for this use case[7].

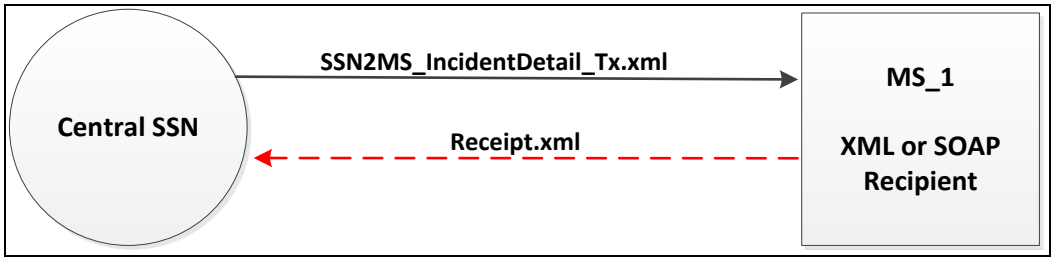

Figure 4 – Systems involved in the commissioning tests (use case UC-IR-2)

Test Cases
The following test case shall be executed during the commissioning tests:

[7] MS_1 is the recipient of distributed IR via XML or SOAP

Test Case Id	Description
TC - 3801	XML/SOAP interface receiving notification/feedback - Normal flow Successful

Test Scenarios

The test case is detailed in the following test scenarios:

TC – 3801 XML/SOAP interface receiving notification - Normal flow Successful		
Mandatory for MS	**Scenario Id**	**Description**
X	TC-3801_01	XML/SOAP interface receiving IR notification/feedback "WASTE" (distributed) - Normal flow Successful
X	TC-3801_02	XML/SOAP interface receiving IR notification/feedback "SITREP" (distributed) - Normal flow Successful
X	TC-3801_03	XML/SOAP interface receiving IR notification/feedback "POLREP" (distributed) – Normal flow Successful
X	TC-3801_04	XML/SOAP interface receiving IR notification/feedback "LOST&FOUND" (distributed) - Normal flow Successful
X	TC-3801_05	XML/SOAP interface receiving IR notification/feedback "FAILED_NOTIFICATION" (distributed) - Normal flow Successful
X	TC-3801_06	XML/SOAP interface receiving IR notification/feedback "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful
X	TC-3801_07	XML/SOAP interface receiving IR notification/feedback "BANNED_SHIP" (distributed) - Normal flow Successful
X	TC-3801_08	XML/SOAP interface receiving IR notification/feedback "INSURANCE_FAILURE" (distributed) - Normal flow Successful
X	TC-3801_09	XML/SOAP interface receiving IR notification/feedback "PILOT_PORT_REPORT" (distributed) - Normal flow Successful
X	TC-3801_10	XML/SOAP interface receiving IR notification/feedback "OTHER" (distributed) - Normal flow Successful
X	TC-3801_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 *CargoManifest>Details* attribute the sentence *"Cargo manifest available upon request to central SSN"*

Scenarios details

The expected workflow for the test scenarios is herein described:

Scenarios			
TC-3801_01	XML/SOAP interface receiving IR notification/feedback "WASTE" (distributed) - Normal flow Successful		
TC-3801_02	XML/SOAP interface receiving IR notification/feedback "SITREP" (distributed) - Normal flow Successful		
TC-3801_03	XML/SOAP interface receiving IR notification/feedback "POLREP" (distributed) –Normal flow Successful		
TC-3801_04	XML/SOAP interface receiving IR notification/feedback "LOST&FOUND" (distributed) - Normal flow Successful		
TC-3801_05	XML/SOAP interface receiving IR notification/feedback "FAILED_NOTIFICATION" (distributed) - Normal flow Successful		
TC-3801_06	XML/SOAP interface receiving IR notification/feedback "VTS_RULES_INFRINGEMENT" (distributed) - Normal flow Successful		
TC-3801_07	XML/SOAP interface receiving IR notification/feedback "BANNED_SHIP" (distributed) - Normal flow Successful		
TC-3801_08	XML/SOAP interface receiving IR notification/feedback "INSURANCE_FAILURE" (distributed) - Normal flow Successful		
TC-3801_09	XML/SOAP interface receiving IR notification/feedback "PILOT_PORT_REPORT" (distributed) - Normal flow Successful		
TC-3801_10	XML/SOAP interface 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		

Scenarios			
TC-3801_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 *CargoManifest>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 USE CASE UC-IR-3: GET INCIDENT REPORTS

Use Case Description

The data requestor can retrieve the details of an incident notification by running specific queries. Backward compatibily is enforced, and thus, SSN can retrieve the information provided both via the new and previous IR protocols.

System involved in the commissioning tests

The following diagram depicts the systems involved in the commissioning tests and the message flows for this use case[8].

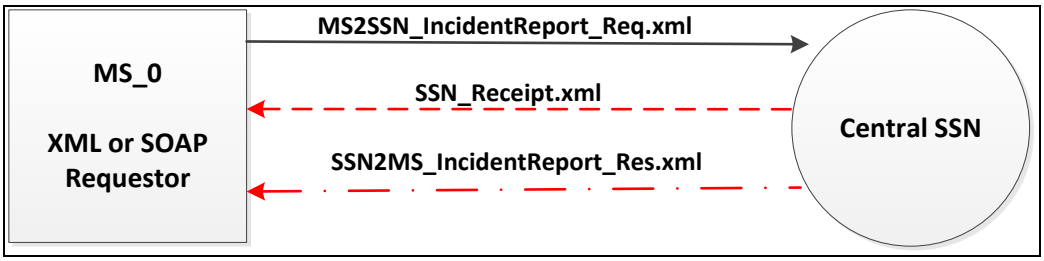

Figure 5 – Systems involved in the commissioning tests (use case UC-IR-3)

Test Cases

We selected the following test case for this use case:

Test Case Id	Description
TC - 3901	Requesting Incident Detail Notification – XML/SOAP interface – normal flow
TC - 3902	Requesting Incident Detail Notification – backward compatibility

Test Scenarios

The proposed scenarios are as follows:

[8] MS_0 is the IR requestor using XML or SOAP interface

TC – 3901 Requesting Incident Detail Notification – XML/SOAP interface – normal flow		
Mandatory for MS	**Scenario Id**	**Description**
--	TC-3901_01	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "AllIRsOfSelectedShip" notification found
--	TC-3901_02	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "SpecificTypesIRsOfSelectedShip" notification found
--	TC-3901_03	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "IRsForSpecificPort" notification found
--	TC-3901_04	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "GetSpecificIR" notification found
--	TC-3901_05	XML/SOAP Interface Requesting Incident Detail Notification – no notification found
--	TC-3901_06	XML/SOAP Interface Requesting Incident Detail Notification – invald XML format

TC – 3902 Requesting Incident Detail Notification – backward compatibility		
Mandatory for MS	**Scenario Id**	**Description**
--	TC-3902_01	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "SITREP" and old "LostFoundContainers" information
--	TC-3902_02	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "POLREP" and old "Others" information
--	TC-3902_03	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "LOST_FOUND_OBJECT" and old "POLREP" information
--	TC-3902_04	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "WASTE" and old "SITREP" information
--	TC-3902_05	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "VTS_INFRINGEMENT" and old "Waste" information

Scenario details

Scenario			
TC-3901_01	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "AllIRsOfSelectedShip" notification found		
TC-3901_02	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "SpecificTypesIRsOfSelectedShip" notification found		
TC-3901_03	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "IRsForSpecificPort" notification found		
TC-3901_04	XML/SOAP Interface Requesting Incident Detail Notification – Query type = "GetSpecificIR" notification found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN	Message is sent out	Possible quey types are: - AllIRsOfSelectedShip - SpecificTypeIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR
2	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).
3	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.
4	NCA App interprets XML message		

Scenario			
TC-3901_05	XML/SOAP Interface Requesting Incident Detail Notification – no notification found		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN	Message is sent out	Possible quey types are: - AllIRsOfSelectedShip - SpecificTypeIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR

2	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).
4	SSN sends response	Sender NCA App receives XML message	
5	NCA App interprets the XML message		

Scenario			
TC-3901_06	XML/SOAP Interface Requesting Incident Detail Notification – invald XML format		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN	Message is sent out	Possible quey types are: - AllIRsOfSelectedShip - SpecificTypeIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR
2	SSN validates message		SSN receives XML message and logs it SSN validates the format of XML message - INVALID
3	SSN sends back XML message with status code=InvalidFormat	Sender NCA App receives XML message	
4	NCA App interprets the XML message		

Scenario			
TC-3902_01	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "SITREP" and old "LostFoundContainers" information		
TC-3902_02	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "POLREP" and old "Others" information		
TC-3902_03	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "LOST_FOUND_OBJECT" and old "POLREP" information		
TC-3902_04	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "WASTE" and old "SITREP" information		
TC-3902_05	XML/SOAP Interface Requesting Incident Detail Notification – backward compatibility, requesting new "VTS_INFRINGEMENT" and old "Waste" information		
Step	Action/ input	Result/output	Notes
1	NCA App sends out XML message to SSN	Message is sent out	Possible quey types are: - AllIRsOfSelectedShip - SpecificTypeIRsOfSelectedShip - IRsForSpecificPort - GetSpecificIR
2	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 "new" IR(s) and the "old" Alert.
3	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.
4	SSN sends response	Sender NCA App receives XML message	
5	NCA App interprets the XML message		