

SafeSeaNet Workshop no. 21
Agenda item IV
8 May 2014

SSN 21/4/5 (v.1.10)
Lisbon, 22 April 2014

SAFESEANET TECHNICAL ASPECTS

SSN Roadmap

Submitted by EMSA

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| <i>Summary</i> | This document presents an overview of the expected roadmap of developments of SSN. |
| <i>Action to be taken</i> | As per paragraph 4 |
| <i>Related documents</i> | <ul style="list-style-type: none">a. SSN 17/6/4 – New naming conventionb. SSN 20/4/2 – SSN Roadmapc. SSN 21/4/1 – Hazmat availability after the cancellation of a calld. SSN 21/4/7 – SSN V2-V3 transitional phase |

1. BACKGROUND

At its 20th meeting in November 2013, the SSN Group validated version 3 of the XML Messaging Reference Guide (XMLRG). The document was then approved by the SSN High Level Steering Group at its meeting of 16 January 2014. The XMLRG is used as a reference for building version 3 of SSN (SSN V3). Progress made on preparing SSN V3 is presented in chapter 3 below.

In the meantime, the current SSN (version 2) continues being maintained by EMSA, including issues correction and implementation of upgrades. Changes to SSN V2 are summarised in chapter 2 below.

The list of Requests For Change applicable to SSN V2 and V3 is provided in annex.

2. SSN V2 UPGRADE

As presented at SSN20, an important upgrade of SSN, version 2.08, is under preparation. It will feature the following changes:

- a. Element CargoManifest will not be mandatory in PortPlus notifications, in alignment with XMLRG 2.07,
- b. ETA will not be mandatory for ship AIS notifications,
- c. A first step of the archiving of Ship Call data will be implemented.

The archiving of ship call data, as agreed at SSN20 (SSN 20/4/4), will be implemented in two steps: a first step in SSN version 2.08 and second in SSN version 3.

In addition, SSN version 2.08 will integrate the EMSA identification management system and Single-Sign-On (EMSA IdM) as initially introduced at SSN17 (SSN 17/6/4). EMSA IdM is currently integrated with THETIS, CleanSeaNet, LRIT and IMDATE. The integration of SSN with EMSA IdM will allow users to access all EMSA applications from a single login entry point. It will provide a unified mechanism for managing the authentication of users and access rights.

As indicated at SSN17, in preparation for such integration, a common user naming convention has been applied and SSN user accounts have been migrated. As with other applications when integrating with IdM, there will be some changes in the user interface for the creation and modification of user accounts. Appropriate user documentation will be provided in due course.

For the purpose of the integration with EMSA IdM, the delivery date of SSN version 2.08 has been moved from April (as indicated at SSN20) to end of June (week 26).

3. SSN V3 RELEASE

The next major release of SSN, version 3, will feature:

- a. Changes derived from the Reporting Formalities Directive 2010/65/EU as validated at SSN20, specifically:
 - o A revised PortPlus notification to include waste and security information as well as improved hazmat information,
 - o Corresponding changes to the ShipCall request / response mechanism,
 - o The exchange of information on exemptions by adding a new exemption notification and adapting the ShipCall responses,
- b. The changes to the MRS messages as validated at SSN20:
 - o A revised Ship notification,
 - o A revised Ship request/response mechanism,
- c. A mechanism to ensure a transition period from SSN V2 to SSN V3 (as per SSN 21/4/7),
- d. The phase out of the Port and Hazmat request/response messages and Security notifications,
- e. The improvement of the SSN Textual Interface and Graphical Interface in relation to the changes mentioned above and the Incident Reports function,
- f. Additional minor features and changes:
 - o Naming convention: modification of length of attributes "From", "To" and "SSNUserID", as per SSN 17/6/4,
 - o Archiving of ship call data, as per SSN 20/4/4 – second step,
 - o Hazmat availability after the cancelation of a call (depending on decision from SSN Group, as per SSN 21/4/1),

3.1. Deletion of data groups

The XML Reference Guide v3.00 introduced the possibility of deleting previously reported Hazmat, Security and Waste data groups (Business Rule No. 10, page 79). The mechanism to delete was implemented by quoting an empty data group (e.g. "<SecurityNotification></SecurityNotification>").

During the design phase of SSN v3, it became clear that this solution is not technically possible as mandatory attributes are present in these data groups preventing them to be quoted empty.

The proposed alternative solution is to add specific attributes at the **NotificationStatus** level of to indicate clearly the intention to delete a data group. The table below shows the proposed amendments to the PortPlus notification:

| MS2SSN_PortPlus_Not - Elements | | Attributes | Occ |
|--------------------------------|--|---|---------------------|
| Header | | | 1 |
| | | Version | 1 |
| | | TestId | 0-1 |
| | | MSRefId | 1 |
| | | SentAt | 1 |
| | | From | 1 |
| | | To | 1 |
| Body | | | 1 |
| NotificationStatus | | | 0-1 |
| | | UpdateStatus | 1 |
| | | DeleteHazmatNotificationInfoNonEUDepartures | 0-1 |
| | | DeleteHazmatNotificationInfoEUDepartures | 0-1 |
| | | DeleteWasteNotification | 0-1 |
| | | DeleteSecurityNotification | 0-1 |
| UpdateNotifications | | | 0-99 |
| | | UpdateMSRefId | 1 |

The new optional attributes to indicate the deletion are type ENUM (Y/N).

3.2. Planning

The expected schedule is maintained as presented at SSN20:

| Milestone | Date | Status |
|---|----------------|-----------|
| XML Messaging Reference Guide validated by SSN Group | 06/11/2013 | Completed |
| XML Messaging Reference Guide approved by HLSCG | 16/01/2014 | Completed |
| Commissioning test plan released | 1 October 2014 | |
| SSN version 3 available on training environment for tests by MS | 1 October 2014 | |
| Start commissioning tests of national SSN systems on training environment | 1 January 2015 | |
| SSN version 3 available on production environment, beginning of transition period (both V2 and V3 | 1 March 2015 | |

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| messaging systems supported). | |
| All National SSN Systems on production. End of transition period. | 1 June 2015 |

4. ACTION PROPOSED

The members of the SSN Group are invited to note the information provided and to approve the correction to XML Reference Guide V3.00 as presented in paragraph 3.1.

Annex: List of Requests For Change (RFC)

| RFC ID | Title | Planned For | Status | Category | Initiator |
|----------|---|------------------|----------|----------------|-----------|
| artf7451 | Remove "dummy value" control over the ETAPortOfCall of PortPlus notification | SSN version 2.07 | Closed | Functional | EMSA |
| artf8104 | Phase out of SSN version 1 Port and Hazmat notifications | SSN version 2.07 | Closed | Functional | SSN Group |
| artf7507 | New Incident Report framework | SSN version 2.07 | Closed | Functional | HLSG |
| artf7466 | Rejection of notifications with ATA older than one year | SSN version 2.07 | Closed | Functional | SSN Group |
| artf7463 | Reject the new calls and call updates with ATD but no ATA | SSN version 2.07 | Closed | Functional | SSN Group |
| artf7464 | Implement warnings when ATA or ATD are in the future | SSN version 2.07 | Closed | Functional | SSN Group |
| artf8664 | Updating link to SSN documentation in the Information Download Area | SSN version 2.07 | Closed | User interface | MS |
| artf8817 | Typo correction regarding IR messages in XMLRG 2.07 | SSN version 2.08 | Approved | Documentation | EMSA |
| artf7488 | Archiving of ship call data | SSN version 2.08 | Approved | Functional | SSN Group |
| artf8151 | Element CargoManifest should not be mandatory in PortPlus notifications | SSN version 2.08 | Approved | Functional | SSN Group |
| artf8426 | IDM integration | SSN version 2.08 | Approved | Technical | EMSA |
| artf8489 | ETA non mandatory in ship AIS notifications | SSN version 2.08 | Approved | Functional | MS |
| artf9137 | XMLRG: Element CargoManifest should not be mandatory in MS2SSN_ShipCall_Res and SSN2MS_ShipCall_Res | SSN version 2.08 | Approved | Documentation | EMSA |
| artf9134 | Wrong occurrence in element "ProvidedIncidentdetails" in XMLRG | SSN version 2.08 | Approved | Documentation | MS |
| artf7726 | SSN XML reference 2.07 - Typo correction regarding bunker | SSN version 2.08 | Approved | Documentation | MS |
| artf8254 | Replace in the warning messages "SSN Registry" with "Ship database" | SSN version 2.08 | Approved | Documentation | EMSA |
| artf8739 | XSD Inconsistencies in the IRVesselIdentificationList and IRVesselIdentification attributes | SSN version 2.08 | Assessed | Technical | MS |
| artf8149 | Phase out request/response of PORT and HAZMAT V1 notifications | SSN version 3 | Approved | Functional | SSN Group |
| artf8072 | Improvement of the MRS framework | SSN version 3 | Approved | Functional | SSN Group |
| artf8140 | Naming convention: length of From, To, SSNUserID | SSN version 3 | Approved | Functional | SSN Group |
| artf7091 | Modify the SSN2MS_Receipt in response to an invalid MS2SSN_ShipCall_Res | SSN version 3 | Approved | Functional | MSS |
| artf8163 | IR: Removal of "old" alert queries based on area from SSN Web interface | SSN version 3 | Approved | Functional | EMSA |
| artf8369 | Incident Reports function: Improvements of user interface and e-mail templates | SSN version 3 | Approved | User interface | EMSA |
| artf7452 | Include "function 7" LOCODES from UNECE | SSN version 3 | Approved | Functional | SSN Group |
| artf9575 | Alignment of SSN GI to new IR framework | SSN version 3 | Logged | Functional | EMSA |
| artf8067 | Reporting formalities: Notification of Waste, Security, Hazmat, exemptions through System Interface | SSN version 3 | Approved | Functional | HLSG |
| artf8068 | Reporting formalities: Impacts on Web interface | SSN version 3 | Approved | Functional | EMSA |
| artf8815 | New MRS framework: transition period | SSN version 3 | Assessed | Technical | SSN Group |
| artf8816 | Reporting formalities: transition period regarding portplus messages | SSN version 3 | Assessed | Technical | EMSA |
| artf9992 | MRS: impact on GI | SSN version 3 | Assessed | User interface | EMSA |

| RFC ID | Title | Planned For | Status | Category | Initiator |
|----------|---|---------------|----------|----------------|-----------|
| artf9986 | MRS: impact on SSN TI | SSN version 3 | Assessed | User interface | EMSA |
| artf9717 | Archiving of ship call data - Step 2 | SSN version 3 | Assessed | Technical | SSN Group |
| artf9327 | Reporting formalities: Impacts on GI | SSN version 3 | Assessed | Functional | EMSA |
| artf8101 | Keep hazmat information available after the cancelation of a call | SSN version 3 | Assessed | Functional | SSN Group |
| artf9402 | Improvements for the Ship Activity Tracking | SSN version 3 | Assessed | Functional | EMSA |