

Meeting: 9th SSN / LRIT Group Meeting

Place and date: Videoconferencing, 25 May 2021

Agenda item: SSN version 5 transition period

Document number: SSN/LRIT 9.4.2

Submitted by EMSA

Summary	This document describes how the central SSN system will manage the transitional phase from SSN V4 to V5.
Action to be taken	As per paragraph 7.
Related documents	HLSG DM8 AI 5.2 - Progress, Planning and next steps - SSN version 5 technical documentation

1 Background

The XML Messaging Reference Guide v5.00 (XML V5), approved at the 8th HLSG meeting (December 2020), includes a new messaging framework for PortPlus notifications, ShipCall request/response and for Incident Report messages. At the 8th SSN/LRIT Group meeting, Members States requested further clarifications regarding the transition phase from SSN version 4 to SSN version 5.

The deployment plan for SSN V5 foresees a progressive implementation by the MS national SSN systems from December 2021 to December 2023. During this period, the central SSN system must support the exchange of information in line with the two versions of the XML Messaging Reference Guide (v4.02 and 5.00). During the transition period there will be some limitations due to technical constraints.

2 PortPlus notifications and ShipCall requests

The following functionalities will be available in SSN version 5 during the transition phase:

- PortPlus notifications through the System Interface: SSN Central will be capable of receiving both V4 and V5 PortPlus notifications through the System Interface (XML and SOAP). SSN Central will provide two sets of distinct URLs for receiving PortPlus notifications: one for V4 notifications (the current endpoints) and the other for V5 notifications (new endpoints). SSN Central will accept only one version of PortPlus notifications per system user. For Member States providing PortPlus notifications in both V4 and V5 formats during the transition period, two system user accounts need to be created and Member States must ensure that data reported for the same ship call (same ShipCallID) is reported using the same version V4 or V5.
- ShipCall requests through the System Interface: SSN Central will be capable of receiving and treating both V4 and V5 ShipCall requests (MS2SSN_ShipCall_Req) through the System Interface (XML and

SOAP). SSN Central will provide two sets of distinct URLs for receiving ShipCall requests: one set for V4 requests and the other for V5 requests.

- When using a V5 request: It will be possible to get ShipCall information including detailed information (i.e. Hazmat, Waste, Security, Bunkers, Persons on board passenger ships) provided by the data Provider NCA in V5 without limitations and ShipCall information including detailed information provided by the Data Provider NCA in V4 with the following limitation: Waste details will not be provided.
- When using the V4 request: It will be possible to get ShipCall information provided in V4 without limitations and ShipCall information provided in V5 with the following limitations: Waste details and information on persons on board passenger ships (CrewAndPax) will not be provided (in this case a user may consult the SSN web user interface to retrieve these details).
- Providing details (Hazmat, Security, Bunkers and Persons on board passenger ships) in XML:
 - Central SSN will request the details (SSN2MS_ShipCall_Req) to the Data Provider NCA using the same SSN version as the PortPlus notification sent by the Data Provider NCA regarding the port call. E.g. if the PortPlus notification was sent in the V4 format, the request for details will be sent in the V4 format. If the PortPlus notification was sent in the V5 format, the request for details will be sent in the V5 format.
 - The National SSN will have to provide the response (MS2SSN_ShipCall_Res) in the same version as the request received from Central SSN (SSN2MS_ShipCall_Req).

The following additional rules will be applied when receiving ShipCall requests:

- When receiving a V5 ShipCall request, SSN will concatenate the attributes “FirstName” and “LastName” in ExemptionDetails and CargoManifest from V4 notifications and place the resulting text in the attribute “ContactName” in the V5 response message.
- When receiving a V4 ShipCall request, SSN will use the attribute “ContactName” in ExemptionDetails and CargoManifest from V5 notifications to fill-in the attribute “LastName” in the V4 response message.
- When receiving a V5 ShipCall request, if there are valid Exemptions without information on the port to which the exemptions is applicable (under ExemptionAppliesTo), SSN will report “ZZUKN” in the attribute ‘Port’ in the V5 response message.
- Other limitations will be applied to the following attributes:
 - CallPurposeCode (updated with additional codes): the additional codes will not be included in V4 responses;
 - Email (size increased to 70 characters): the email will be truncated in the V4 responses;
 - Quantity (converted to type Decimal): the value will be converted to decimal in V5 responses when feasible;
 - UnitOfMeasurement (updated with an additional code): the additional code “L” will be translated to quantities in “M3” in V4 responses.
- ShipCall requests via the Web Interface: It will be possible to get ShipCall information provided in both V4 and V5 formats, applying the same rules as for the System Interface. In addition, the waste details

provided in V4 format will still be available with some restrictions (i.e. waste delivery status (all, some or none) and waste delivered at last port will not be available).

3 Incident Report notifications, distributed Incident Reports and requests

The following functionalities will be available in SSN V5 during the transition phase:

- Incident Report notifications through the System Interface: SSN Central will be capable of receiving both V4 and V5 IncidentDetail notifications through the System Interface (XML and SOAP). SSN Central will provide two sets of distinct URLs for receiving IncidentDetail notifications: one set for V4 notification, the other for V5 notifications. SSN Central will only accept one version of IncidentDetail notifications per system user. For Member States providing IncidentDetail notifications in both V4 and V5 formats during the transition period, two system user accounts will need to be created.
- Incident Report notifications through the Web Interface: Incident Reports notifications provided through the Web Interface will be in the format corresponding to SSN V5.
- Requesting Incident Reports through the System Interface: SSN Central will be capable of receiving and treating both V4 and V5 IncidentReport requests (MS2SSN_IncidentReport_Req) through the System Interface (XML and SOAP). SSN Central will provide two sets of distinct URLs for receiving IncidentReport requests: one set for V4 requests, the other for V5 requests.
 - When using a V5 request, it will be possible to get IncidentDetails information provided in V5 format with no limitation, and IncidentDetails information provided in V4 format with the following limitation: IncidentDetails details in V4 will be converted to a PDF file and provided as attached document in Base64Details¹.
 - When using a V4 request, it will be possible to get IncidentDetails information provided in V4 format with no limitation, and IncidentDetails information provided in V5 format with the following limitation: IncidentDetails details in V5 will be converted to a PDF file and provided as attached document in Base64Details.
- Requesting Incident Reports through the Web Interface: All requests will naturally be in the V5 format. It will be possible to get Incident Reports provided in V5 format without limitations and V4 format with conversion to PDF.
- Distributed IncidentDetails notifications through the System Interface: SSN Central will be capable of distributing IncidentDetails in both V4 and V5 formats (SSN2MS_IncidentDetail_Tx) through the System Interface (XML and SOAP).
 - When the national SSN system is V5, SSN will distribute the IncidentDetails information provided in V5 format with no limitation, and IncidentDetails information provided in V4 format with the following limitation: IncidentDetails details in V4 will be converted to a PDF file and provided as attached document in Base64Details.
 - When the national SSN system is V4, SSN will distribute the IncidentDetails information provided in V4 format with no limitation, and IncidentDetails information provided in V5 with the

¹ A change is required to the XML Messaging Reference Guide v5 and to the schema to allow Incident messages without IncidentDetails element group and only attached document in Base64Details.

following limitation: IncidentDetails details in V5 will be converted to a PDF file and provided as attached document in Base64Details.

4 Exemptions notifications and requests

The following functionalities will be available in SSN version 5 during the transition phase:

- Exemptions notifications through the System Interface: SSN Central will be capable of receiving both V4 and V5 Exemptions notifications through the System Interface (XML and SOAP). SSN Central will provide two sets of distinct URLs for receiving Exemptions notifications: one set for V4 notifications (the current endpoints), the other for V5 notifications (new endpoints). SSN Central will only accept one version of Exemptions notifications per system user.
- Exemptions notifications through the Web Interface: SSN Central will be capable of receiving only V5 Exemptions notifications through the Web Interface.
- Requesting Exemptions through the System Interface: SSN Central will be capable of receiving only V5 Exemptions requests. During the transition period, Member States still in V4 should use the Web Textual Interface. The Exemptions created in V4 format will be converted to V5 format. The following additional rules will be applied:
 - SSN will concatenate the attributes “FirstName” and “LastName” in ExemptionDetails from V4 notifications and place the resulting text into the attribute “ContactName” in the V5 response message;
 - If there are valid Exemptions in V4 format without information on the Port to which the exemption is applicable (under ExemptionAppliesTo), SSN will report “ZZUKN” in the attribute “Port” in the V5 response message.
- Requesting Exemptions through the Web Interface: All requests will naturally be in the V5 format. It will be possible to get Exemption information provided in both V4 and V5 formats. The same rules as for the System Interface will be applied.

5 Ship notifications and requests

The Ship AIS notifications and requests will be phased-out with in SSN V5 and no transitions will be implemented. For the Ship MRS notifications, the following functionalities will be available in SSN V5 during the transition phase:

- Ship MRS notifications through the System Interface: SSN Central will be capable of receiving both V4 and V5 Ship MRS notifications through the System Interface (XML and SOAP). SSN Central will provide two sets of distinct URLs for receiving Ship MRS notifications: one set for V4 notification (the current endpoints), the other for V5 notifications (new endpoints). SSN Central will only accept one version of Ship MRS notifications per system user.
- Ship MRS notifications through the Web Interface: SSN Central will be capable of receiving only V5 Ship MRS notifications through the Web Interface.
- Requesting Ship MRS through the System Interface: SSN Central will only be capable of receiving V5 Ship MRS requests. During the transition period, Member States still in V4 should use the Web Textual

Interface. The Ship MRS notifications created in V4 format will be converted to V5 format. The following additional rule will be applied:

- SSN will concatenate the attributes “FirstName” and “LastName” in Ship MRS details from V4 notifications and place the resulting text in the attribute “ContactName” in the V5 response message.
- Requesting Ship MRS through the Web Interface: All requests will naturally be in the V5 format. It will be possible to get Ship MRS information provided in both V4 and V5 formats. The same rules as for the System Interface will be applied.

6 Summary of the proposal

The points above are summarised in the table below:

Messages	System interface (XML and SOAP)	Web Textual Interface
PortPlus notification	PortPlus V5 PortPlus V4	N.A.
ShipCall request	ShipCall Request V5 with Details V5, and V4 without Waste ShipCall Request V4 with Details V4, and V5 without Waste and Persons	ShipCall Request V5 with Details V5, and V4 including Waste with some restrictions
IncidentDetail notification	IncidentDetail V5 IncidentDetail V4	IncidentDetail V5
IncidentReport request and Distributed	IncidentReport V5 with Details V5 and V4 in PDF IncidentReport V4 with Details V4 and V5 in PDF	IncidentReport Request V5 with Details V5 and V4 in PDF
Exemption notification	Exemption V5 Exemption V4	Exemption V5
Exemption request	Exemption V5 with Details V5 and V4	Exemption V5 with Details V5 and V4
Ship MRS notification	Ship MRS V5 Ship MRS V4	Ship MRS V5
Ship MRS request	Ship MRS V5 with Details V5 and V4	Ship MRS V5 with Details V5 and V4

7 Actions required

Member States are invited to take note of the information provided.