

SAFESEANET TECHNICAL ASPECTS

SSN V2-V3 transitional phase

Submitted by EMSA

<i>Summary</i>	This document describes how the central SSN system will manage the transitional phase from SSN V2 to V3.
<i>Action to be taken</i>	As per paragraph 5
<i>Related documents</i>	HLSG 11.3.5 - SSN V2-V3 transition phase

1. BACKGROUND INFORMATION

The XML Messaging Reference Guide v3.00 (XML RG V3) includes a new messaging framework for PortPlus notifications, ShipCall request/response and for Ship MRS notifications and requests. The deployment plan for SSN V3 foresees a progressive implementation by the MS national SSN systems from March to June 2015. 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 (v2.08 and 3.00). Nevertheless, due to technical constraints and the relatively short duration of the transition period, there will be some limitations.

EMSA introduced at SSN Group 21 the rules regarding the treatment of V2 messages during the transition period. The SSN Group asked EMSA to assess to which extent additional flexibility may be supported during the transition phase regarding PortPlus notifications and ShipCall requests. A technical solution was presented by EMSA at the 11th meeting of the SSN HLSG (23 June).

After the HLSG meeting, EMSA has further assessed the issue and designed the technical solution introduced in this document.

2. PORTPLUS NOTIFICATIONS AND SHIPCALL REQUESTS

The following functionalities will be available in SSN V3 during the transition phase:

- PortPlus notifications through the System Interface: SSN Central will be capable of receiving both V3 and V2 PortPlus notifications through the System Interface (XML and SOAP). SSN Central will provide two distinct URLs for receiving PortPlus notifications: one for V2 notification, the other for V3 notifications. When receiving a V2 notification, SSN Central will store it as a V3 notification. SSN Central will accept both V2 and V3 PortPlus notifications from a single Member State.

- PortPlus notifications via the Web Interface: It will still be possible to submit V2 PortPlus notifications via the Web Textual Interface of central SSN. As noted at SSN Groups 20 and 21, it will not be possible to submit V3 PortPlus notifications via the Web Interface.
- ShipCall requests through the System Interface: SSN Central will be capable of receiving and treating both V2 and V3 ShipCall requests (MS2SSN_ShipCall_Req) through the System Interface (XML and SOAP). SSN Central will provide two distinct URLs for receiving ShipCall requests: one for V2 requests, the other for V3 requests.
 - When using a V3 request: It will be possible to get all XML details (Hazmat, Security, Waste). For that purpose, XML V2 Hazmat details will be translated into the XML V3 format by SSN. But it will not be possible to get Hazmat details via phone/fax or URL, because the V3 XML structure does not allow it.
 - When using the V2 request: It will be possible to get Hazmat details in V2 format (Phone/Fax, URL, XML) (Note: this is an additional flexibility compared to the solution presented at HLSG11). But details in V3 format (Hazmat, Security, Waste) will not be provided.
- ShipCall requests via the Web Interface: All requests will naturally be in the V3 format. It will be possible to get details in both V2 (Hazmat details via phone/fax, URL, XML) and V3 formats (Hazmat, Security, Waste in XML).
- Providing Hazmat details in XML:
 - Central SSN will request the Hazmat details (SSN2MS_ShipCall_Req) to the Data Provider NCA in the same format as the PortPlus notification sent by the Data Provider NCA regarding the port call. E.g. if the PortPlus notification was done in the V2 format, the request for details will be sent in the V2 format. If the PortPlus notification was done in the V3 format, the request for details will be sent in the V3 format.
 - SSN will expect to receive the Hazmat details (MS2SSN_ShipCall_Res) in the same format as the request (SSN2MS_ShipCall_Req).
 - Central SSN may be configured to use two distinct URLs for the request and response for Hazmat details in V2 format, and for the request and response in V3 format.

The points above are summarised in the table below:

Messages	System interface (XML and SOAP)	Web Interface	
		Textual Interface	Graphical Interface
PortPlus notification	PortPlus V3 + PortPlus V2	PortPlus V2	N.A.
ShipCall Request	ShipCall Request V3 with Details V3 and V2 (XML only) + ShipCall Request V2 with Details V2	ShipCall Request V3 with Details V3 and V2	ShipCall Request V3 with Details V3 + Details V2
Providing ShipCall Details	Details V3 + Details V2	N.A.	N.A.

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

- When receiving a V3 ShipCall request, SSN will translate the attribute DGClassification = "BC" from V2 notifications and details to DGClassification = "IMSBC", and will ignore DGClassification = "INF".
- When receiving a V2 ShipCall request, SSN will translate the attribute DGClassification = "IMSBC" from V3 notifications DGClassification = "BC".

Once the transition period is over, SSN will stop supporting the V2 format. Accordingly, SSN Central will not accept V2 PortPlus notifications and will not provide Hazmat details in the V2 format. SSN will send requests for details to MS only in the V3 format and will expect that responses are all provided in the V3 format.

3. SHIP NOTIFICATIONS AND SHIP REQUESTS

The following functionalities will be available in SSN V3 during the transition phase:

- Ship MRS notifications: Central SSN will be capable of receiving both V2 and V3 Ship MRS notifications through the System Interface (XML and SOAP) and the Web Textual Interface. SSN Central will provide two distinct URLs for receiving notifications: one for V2 notifications, the other for V3 notifications. When receiving a V2 notification, SSN Central will store it as a V3 notification (translation rules are described below).
- Ship MRS requests: Requesting Ship MRS information will have to be done in the V3 format. The MRS details in V2 format (URL and XML) will not be provided.
- As a consequence of the point above, SSN will not support requests of Ship MRS information in the V2 format and will not support retrieving of details of Ship MRS notifications in the V2 format.

The points above are summarised in the table below:

Messages	System interface (XML and SOAP)	Web Interface	
		Textual Interface	Graphical Interface
Ship MRS notification	Ship MRS V3 + Ship MRS V2	Ship MRS V3	N.A.
Ship MRS Request	Ship MRS Request V3 with Details V3	Ship MRS Request V3 with Details V3	Ship MRS Request V3 with Details V3
Providing MRS Details	Details V3	N.A.	N.A.

The following additional rules will be applied when translating Ship MRS notifications from V2 to V3 format (migration of existing V2 notifications will also be done on the same basis):

- Attribute MRSIdentification will be recorded as "undefined",

- Attribute AnyDG will be recorded as "X",
- Attribute ReportingDateTime will be recorded with the same value as the "SentAt" attribute.

Once the transition period is over, SSN will stop accepting V2 Ship MRS notifications.

4. SCHEDULE

The time plan for the implementation of the transition period is the following:

- 1 March 2015: SSN version 3 available in production environment, beginning of transition period.
- 1 June 2015: All National SSN Systems in production. End of transition period.

5. ACTION REQUIRED

The members of the SSN Group are invited to note the information provided.