

SafeSeaNet V4

System Requirements Specifications

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Document History

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List of abbreviations

CMC	Central Management Console of the SSN Ecosystem
COD	Central Organisation Database
IFCD	Interface and Functionalities Control Document
HLSG	High Level Steering Group
MS	Member State
NCA	National Competent Authority
NSW	National single Window
PRF	Port Reception Facilities Directive 200/59/EC
SSN	The Central SafeSeaNet System hosted by EMSA

References

1. Waste Business Rules - version 1.02 – 30 September 2016
2. Annex to HLSG document 13.3.2 - Proposed Changes to SSN XML Reference Guide 3.02 to align with the SSN Guidelines on Reporting HAZMAT – 5 June 2015
3. Reporting bunkers in SafeSeaNet, draft business rules – version 1.0 – 11 May 2016
4. HLSG paper 15.4.2 - Improving SafeSeaNet and LRIT, section 7 – 6 July 2016
5. HLSG paper 16.8 – Towards SSN v.4 – Reporting Bunkers, 12 October 2016

1. Introduction

The scope of the next major release of SafeSeaNet (SSN V4) was defined by the SSN High Level Steering Group (HLSG) at its 15th meeting on 6-7 July 2016. The new HLSG for Governance of the Digital Maritime System and Services at its 1st meeting of 12 October 2016 (HLSG DM01) agreed on a time plan for its implementation.

2. Objective of the change

SSN V4 will cater for:

1. The revised waste business rules approved by the HLSG DM01 on 12 October 2016 (Ref. 1),
2. Technical amendments proposed by the Hazmat Working Group and approved by HLSG 13 on 5 June 2015 (Ref. 2),
3. The new business rules for reporting of bunkers in SSN approved by HLSG 15 on 6-7 July 2016 (Ref. 3), and clarified by HLSG DM01 (Ref.5)
4. Amendments on the reporting of exemptions, as identified at HLSG 15 meeting (Ref. 4).

In addition, SSN V4 will be integrated with the new Common Management Console which was developed in accordance with the EMSA Work Programme 2016 to serve as the access point for managing all user accounts accessing the SSN Ecosystem as well as for the management of all EMSA reference databases (e.g. countries, location codes, organisations and geo-reference areas).

3. High-level requirements

SSN V4 will comply with the high-level requirements provided in this chapter.

3.1 Waste business rules

The following requirements from the waste business rules (Ref. 1) are applicable to SSN:

- Business Rule 6: SGW&CR information is based on the Annex II of the PRF Directive. The fields “Other (specify)” under “Waste Oils” and “Domestic Wastes” shall include optional dropdown menus in order to better identify and harmonise the possible values (types), keeping also the IMO form in mind. All the other fields and dropdown menus shall be mandatory fields and have to be completed by the data provider. The waste categories and the dropdown menus are defined in Annex I.
- Business Rule 7: The waste related fields should always be filled in even if there is no quantity to be reported. In this case, the quantity should be reported with the value “0”. The ship master is allowed to group optional fields under “Others” by using the ‘free text field’ option.
- Business Rule 12: The full details of the waste notification shall be made available in the central SSN system and will be relayed from the central SSN system to THETIS EU.
- Business Rule 12bis: The information from the waste notification shall be automatically pushed from the SSN central system to THETIS-EU
- In addition, HLSG 15 decided that all waste information will be provided in the PortPlus notification (no provision of waste details on request by national systems).
- Business Rule 12ter: PRF inspection reports and details shall be relayed, upon request, from THETIS-EU to the central SSN.

- Business Rule 14: The Incident Reports type waste shall be automatically pushed from SSN central system to THETIS EU.
- Business Rule 14bis: The means to communicate Incident Reports type waste shall use the same structure and format throughout.
- Business Rule 15: Member States should register in SSN all waste related exemptions (waste notification, delivery and fees) granted in accordance with article 9 of the PRF Directive. The exemption information shall be made available to THETIS via the central SSN system.
- Business Rule 16: SSN should allow to identify for which waste type and for which port an exemption has been granted.
- Business Rule 17: The Central SSN system should include a specific request to retrieve active exemptions for a ship or a Member State using a system-to-system message.
- The content of the Waste information is amended, with the addition of the “Amount of waste delivered at last port of delivery” data element in the waste disposal information. The content of the Waste information is provided in the Data Mapping report (Ref. 2).

3.2 Technical amendments proposed by the Hazmat Working Group

The amendments which will be applied according to section 2 of Ref. 2 are described in Appendix C.

3.3 Business rules for reporting bunkers

The following requirements from the bunkers reporting business rules (Ref. 3) are applicable to SSN:

- Business Rule 1: Information on bunkers, carried on board ships of above 1000 GT, should be reported separately from dangerous or polluting goods. The following information should be reported in respect of bunkers:
 - The characteristics of bunkers, e.g.
 - marine gas oil (MGO)
 - marine diesel oil (MDO)
 - intermediate fuel oil (IFO)
 - marine fuel oil (MFO)
 - heavy fuel oil (HFO)
 - liquefied petroleum gas (LPG)
 - liquefied natural gas (LNG)
 - The estimated quantity of bunkers per type in metric tons
- Business Rule 3: The timeframe for reporting bunkers shall be the same as that applicable for dangerous or polluting goods in accordance with the VTMS Directive
- Business Rule 5: In compliance with the RFD information on bunkers on board a ship has to be submitted to the Member States of the port of arrival or departure, depending on which was the previous port of call, via a national single window together with other reporting formalities. This information shall be made available in the national SafeSeaNet systems for exchange with other Member States.
- Business Rule 6: Similarly to other reporting formalities, information on bunkers has to be reported in electronic format via a national single window.
- Business Rule 7: Ships which are only carrying bunkers as dangerous or polluting goods should complete the 'HazmatOnBoardYorN' in the PortPlus message attribute with an 'N'. To avoid misinterpretations the attribute name should be changed to reflect that it is referring to 'dangerous or polluting goods' when carried as cargo onboard a ship and therefore should read 'HazmatCargoOnBoardYorN'.
- Business Rule 8: Information on bunkers will be held by Member States in their national SafeSeaNet systems and provided to other Member States only on request. The request and response messages have to be

updated to allow for the exchange of bunkering information separately from information on dangerous or polluting goods.

- Business Rule 9: Ships carrying only bunkers as dangerous or polluting goods will not be shown as carrying Hazmat on the SafeSeaNet graphical interface.

In addition, the HLSG (Ref. 5) agreed that, considering that the large majority of Member States already require information of FAL 3 in their NSW, the information on bunkers, for whom it is available in the NSW, is also made available in the national SafeSeaNet for exchange between Member States.

3.4 Amendments on the reporting of exemptions

The following changes were identified identified at HLSG 15 meeting (paper HLSG 15.4.2, section 7):

- Identification of the port exempted, in addition to the route; and
- Identification of the port facility for exemptions on Security notification.

3.5 Common Management Console (CMC)

Common Management Console (CMC) which will be the access point for enforcing access control policies for all the users accessing the Central SSN System as well as for the management of all EMSA reference databases

The CMC will be implemented as a composite service including the following service components:

- Access rights policies configuration for the Central SSN System's users
- User Management Console
- Management utilities of the Central Organisation Database (COD)
- Management utilities of the Central Location Database (CLD)
- Management utilities of the Central Country Database (CCD)
- Management utilities of the Central Geo-reference Database (CGD)

The access right policies and user management console will apply to end-users of the Central SSN System. The management and enforcement of access rights policies of end-users of National SSN Systems will remain the responsibility of the NCA and will continue to be addressed by th National SSN Systems.

3.6 Port facilities codes

Currently in SSN V3, the port facility is identified only by the last 4-digits assuming that the 5-characters LOCODE is the same as the port LOCODE. This creates an inconsistency as in some cases the first part of the GISIS code is not in the form of the port LOCODE.

The technical definition of the port facility code should follow the convention applied in the IMO GISIS maritime security database where the port facility is identified with a 5-characters LOCODE followed by a 4-digits facility code, separated by a dash e.g. "GBSTO-0007".

This issue was raised at SSN Group 23 and at 60th MARSEC meeting (Agenda item 8). As the proposed change has a technical impact on SSN both the central and MS levels, and also on the NSW, it was considered to be included in next major change of SSN.

4. Data content

4.1 Data content

An update of the annexes of the “Data Mapping Report” (developed by the eMS group as Version: 1.6 – Final 25 February 2015) for the implementation of National Single Windows is provided in Appendix A. It indicates the changes to be applied in National Single Window systems and to SSN in terms of data supported and exchanged. These changes would also have to be confirmed by the Single Window expert sub-group established under the HLSG for Governance of the Digital Maritime System and Services.

4.2 Waste type codes

The new Waste Business Rules document introduces a revisions of the waste categorisation.

In order to offer a compatibility with the waste categorisation currently applied in SSN V3, the waste type codes applicable to SSN V3 will be kept in SSN V4 and will be given an expiry date. The expiry date will correspond to the date when SSN V4 will become operational.

The new waste type codes will be incorporated in SSN V4 and will be given a date of effect (date when the type becomes applicable) which will also correspond to the date when SSN V4 will become operational.

The list of Waste Type codes is provided in Appendix B.

5. Information flow

5.1 PortPlus notification

The PortPlus notification (MS2SSN_PortPlus_Not message) will be extended to include the contents of the waste and residues notification, apart from the “confirmation” elements (“Accurate and correct details”, and “Sufficient onboard capacity”). The data coverage of the PortPlus notification is as indicated in Appendix A, column “To be provided in PortPlus message”.

If a Waste Type code included in the waste details has passed its expiry date, SSN will include a warning message in the Receipt message. The control will be done by comparing the date of expiry of the code with the date of arrival of the ship in port (ATAPortOfCall, or ETAToPortOfCall if no ATAPortOfCall).

If a Waste Type code included in the waste details has not yet reached its date of effect, SSN will include a warning message in the Receipt message. The control will be done by comparing the date of effect of the code with the date of arrival of the ship in port (ATAPortOfCall, or ETAToPortOfCall if no ATAPortOfCall).

The PortPlus notification will also be amended to apply the new port facility coding.

The content and structure of the MS2SSN_PortPlus_Not message is provided in Appendix D.

5.2 Update of waste information

In the situation where the waste information is amended, the National SSN System will send an update PortPlus notification (MS2SSN_PortPlus_Not message with the ShipCallID of the ship call to update) with all waste information for the ship call. The waste information provided in the update PortPlus notification will replace the information stored in the Central SSN System for the ship call.

5.3 Requests for ship call details

The following information will be provided by the national SSN systems on request:

- Dangerous and polluting goods details,
- Security notification details,
- Bunkers on board.

When SSN will receive a request for detailed waste information (MS2SSN_ShipCall_Req message), it will provide the information stored at central level without sending a request to the National SSN System.

An additional request type to National SSN systems (SSN2MS_ShipCall_Req and MS2SSN_ShipCall_Res messages) will be added for the purpose of requests for information on bunkers on board.

The dangerous and polluting goods details (MS2SSN_ShipCall_Res and SSN2MS_ShipCall_Res messages) will be amended to apply the changes identified appendix C.

The security notification details (MS2SSN_ShipCall_Res and SSN2MS_ShipCall_Res messages) will be amended to apply the new the port facility coding.

The content and structures of the MS2SSN_ShipCall_Req, SSN2MS_ShipCall_Req, MS2SSN_ShipCall_Res, SSN2MS_ShipCall_Res messages are provided in Appendix D.

5.4 Exemption notification

The exemption type “Waste” will be renamed to “Exemption for waste notification”, and two new exemption types will be added: “Exemption for waste delivery” and “Exemption for waste fees”.

The exemption notification (MS2SSN_Exemption_Not message) will be extended to:

- Include the identification of the port(s) where the exemption applies. This will be a mandatory element for all types of exemptions. The element “Route” will remain mandatory as in SSN V3.
- Include the identification of the waste type(s) to which the exemption applies in the case of exemptions of type “Exemption for waste notification”, “Exemption for waste delivery” and “Exemption for waste fees”. At least one waste type, or the indication of “all waste types”, must be provided.
- Include the identification of the port facility(ies) in the case of exemptions of type “Security”.

The content and structure of the MS2SSN_Exemption_Not message is provided in Appendix D.

5.5 Requests for exemption details

A new mechanism will be provided to request exemptions details to SSN via its system-to-system interface. It will consist in a exemption request message sent by the requesting system to SSN (MS2SSN_Exemption_Req message) and a response message send back by SSN (SSN2MS_Exemption_Res message).

The request message will allow requesting:

- All active exemptions for a ship,
- All active exemptions issued by a country,
- All active exemptions applied in a port.

An active exemption is an exemption which “DateFrom” is past or equal to the date of the request and which “DateTo” is posterior or equal to the date of request. The date of request will be either the current date or any date in past or future. It will be set to the current date by default.

The content and structures of the MS2SSN_Exemption_Req and SSN2MS_Exemption_Res messages are provided in Appendix D.

5.6 Communication of ship call information to THETIS

Each PortPlus notification data will be communicated to THETIS. This will include the content of the whole PortPlus notification including the waste information.

5.7 Communication of exemption information to THETIS

THETIS will be communicated with all details of all exemptions stored in the Central SSN System, active or not.

5.8 Communication of Incident Reports to THETIS

All Incident Reports of type "Waste" (MS2SSN_IncidentDetail_Not messages) will be pushed to THETIS in the form of SSN2MS_IncidentDetail_Tx messages.

This will be done as soon as SSN receives an Incident Report message through its web interface or its system-to-system interface. It will apply regardless if the data provider requested that the Incident Report is distributed or not. It will apply to any kind of Incident Report (Update Status=N, U or D, Incident or Feedback).

The message to THETIS will be considered by SSN in a similar manner as any other SSN2MS_IncidentDetail_Tx message. The distribution status (success or failure) will therefore be reported to the provider in an acknowledgment message (SSN2MS_IncidentDetail_Tx_Ack message) and via the Incident Reports monitoring tool of the SSN Web Interface.

5.9 Communication of PRF inspection report from THETIS to SSN

[This section needs to be drafted]

6. User accounts and access rights

This section applies to the management of users of the Central SSN System.

6.1 User accounts configuration

In addition to its credentials (User ID and password), a user account will have the following mandatory attributes:

- Personal information:
 - Initials (mandatory),
 - First name (mandatory),
 - Middle name,
 - Last name (mandatory),
 - Contact details: Email (mandatory), Address, Phone number (mandatory), Fax number,
 - Alerting detail: Email (if different from user's email), Phone number (if different from user's phone number).
- Type:
 - Person: the user account relates to a physical person (e.g. end-user of the Central SSN System),
 - System: the user account relates to a system (e.g. National SSN System). For system user accounts, the personal information will indicate the contact point in charge of the management of the system. System user accounts do not have access to any Web User Interface.

- **Country/institution:** A user account belongs to one country or institution (e.g. EMSA, FRONTEX, EFCA).
- **Organisation:** A user account belongs to one public organisation within its country or institution (e.g. SSN National Competent Authority, local or national Search and Rescue Centre, Port State Control office, pollution prevention centre, Maritime Assistance Service, port authority, etc.). Organisations will be provided by the Central Organisations Database (COD). COD will replace the list of “authorities” currently used in SSN V3.
- **Profiles:** A user account may be given one or several Profiles. They define the user’s access rights. Refer to section 6.2 below.

All user’s attributes will be configured centrally for the overall SSN Ecosystem (e.g. Central SSN System, LRIT, EODC, THETIS) in the CMC.

6.2 Users’ access rights

The access right policies will be based on Roles associated to a user. The association of roles to a user will be done by means of Profiles, whereas each Profile contains a set of Roles. A user will be assigned one or more Profiles by the responsible Administrator. As a consequence, that user will be associated to the underlying set of roles.

Each Role will be applicable to one of the services of the SSN Ecosystem (e.g. Central SSN System, EODC, LRIT, THETIS). A Profile may include combinations of Roles from different services.

Example: The Profile “Coastal station” includes the LRIT Role “Coastal view”, the EODC Role “View Vessel Detection” and SSN Role “Maritime authority”. The structure of the user’s access rights are depicted in Figure 1 below.

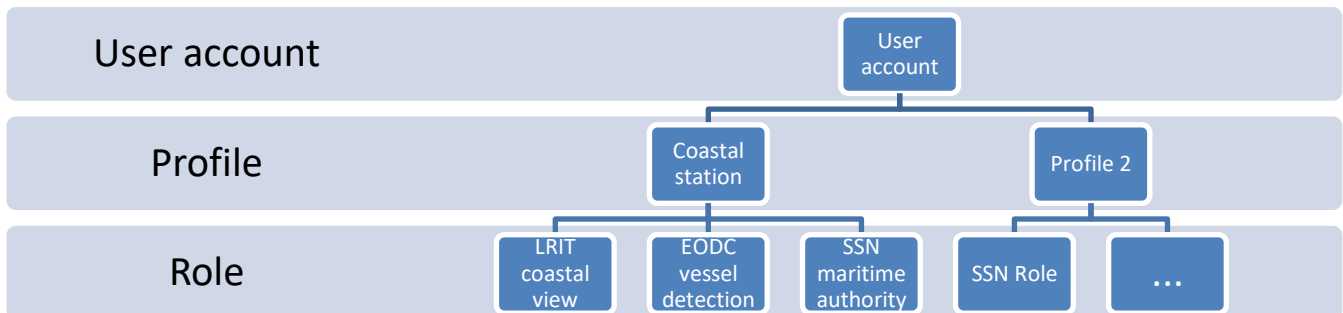


Figure 1: Example of a user’s access rights

The user’s access rights will depend uniquely on its Profiles as configured centrally in the CMC for all services of the SSN Ecosystem. Profiles will be cumulative (e.g. a user will be given the sum of access rights provided by his Profiles).

The access rights policies applicable to SSN will be configured in accordance with the IFCD. They are provided in Appendix E.

The users’ access rights will apply to the user interface and the system interface of the SSN Ecosystem. In the case of access through the system interface, SSN will consider the access rights of the system user which will represent the authority in charge of the management of the system (e.g. SSN NCA). The authority will have the responsibility of applying the relevant access rights to SSN data as defined in the IFCD to its end-users.

6.3 SSN Permissions

Each Role will be interpreted by SSN as a set of Permissions to perform individual actions on a resource (i.e. a type of information or a functionality of SSN).

Example: The SSN Role “Maritime authority” includes the Permissions to provide MRS reports, Incident Reports and port calls, and to view voyage information with all details, exemption, incident reports and MRSreports.

The current Permissions as defined in SSN V3 will continue to apply.

In particular, as regards access to the waste information:

- Users with permission to view voyage information (permission “SHIPCALL_REQUESTOR”) will only have access to the Waste “summary” data (i.e. data elements “Last port delivered”, “Last port delivered date”, “Waste delivery type”),
- Users with permission to waste information (permission “WASTE_REQUESTOR”) will have access to all Waste data.

As regards exemption information, users with permission “EXEMPTIONS_REQUESTOR” will have access to all exemptions data.

7. Non-functional requirements

7.1 System capacity

There will be additional PortPlus notifications received to update waste notifications. It is envisaged that waste notifications will be provided for all port calls and that waste notification updates will be received for 20% of port calls.

Using as a reference the number of port calls reported to SSN during one year, from 1 May 2015 to 1 May 2016, SSN is expected to receive the numbers of PortPlus notifications with Waste details indicated in Table 1 below..

Member State	Port calls per year	PortPlus with Waste notification per year	PortPlus with Waste notification per day
Belgium	26391	31669	87
Bulgaria	3434	4121	11
Croatia	8912	10694	29
Cyprus	3122	3746	10
Denmark	29596	35515	97
Estonia	11635	13962	38
Finland	26204	31445	86
France	49061	58873	161
Germany	53511	64213	176
Gibraltar	7001	8401	23
Greece	106356	127627	350
Iceland	2503	3004	8
Ireland	12630	15156	42
Italy	102718	123262	338
Latvia	6691	8029	22
Lithuania	4336	5203	14
Malta	10552	12662	35
Netherlands	51259	61511	169
Norway	83755	100506	275
Poland	15801	18961	52

Member State	Port calls per year	PortPlus with Waste notification per year	PortPlus with Waste notification per day
Portugal	13602	16322	45
Romania	5528	6634	18
Slovenia	2221	2665	7
Spain	147742	177290	486
Sweden	52064	62477	171
United Kingdom	121242	145490	399
Overall EU:	957867	1149440	3149

Table 1: Number of waste notifications expected per MS

Appendix A National Single Window Data Mapping Report

Refer to XLSX file “Data Mapping Report” attached.

Appendix B Waste type codes

The table below indicates the waste types and their codes which will be added in SSN V4. It follows the order from the revised Waste Business Rules document.

Waste types which are not applicable according to the revised waste business rules will expire at the date when SSN v4 will become operational. New waste types will be added at the date when SSN v4 will become operational.

Description as in Waste Business Rules v1.02	Free text description needed	Code	Label in SSN
1.WASTE OILS		-	
1.1 Oily bilge water		a1100	Waste oils - Oily bilge water
1.2 Oily residues (sludge)		a1200	Waste oils - Oily residues (sludge)
1.3 Others - specify: choose from below: (except: cargo residues)		-	
1.3.1 Used engine oil		a1301	Waste oils - Other - Used engine oil
1.3.2 Other: specify in free text field	X	a1302	Waste oils - Other
2. SEWAGE		a2000	Sewage
3. GARBAGE		-	
3.1 Plastics		a3100	Garbage - Plastic
3.2 Food waste		-	
3.2.1 International catering waste		a3201	Garbage - Food waste - International catering waste
3.2.2 Other Food waste: specify in free text field	X	a3202	Garbage - Food waste - Other
3.3 Domestic wastes (e.g. paper products, rags, glass, metal, bottles, crockery, etc.)		-	
3.3.1 Paper products		a3301	Garbage - Domestic wastes - Paper products
3.3.2 Rags		a3302	Garbage - Domestic wastes - Rags
3.3.3 Glass		a3303	Garbage - Domestic wastes - Glass
3.3.4 Metal		a3304	Garbage - Domestic wastes - Metal
3.3.5 Bottles		a3305	Garbage - Domestic wastes - Bottles
3.3.6 Crockery		a3306	Garbage - Domestic wastes - Crockery
3.3.7 Special items (e.g. medical waste, oily rags, paint, cans, dated pyrotechnics, batteries, print cartridges, etc.): specify in free text field	X	a3307	Garbage - Domestic wastes - Special items
3.3.8 Other, specify in free text field	X	a3308	Garbage - Domestic wastes - Other
3.4 Cooking Oil		a3400	Garbage - Cooking Oil
3.5 Incinerator ashes		a3500	Garbage - Incinerator ashes
3.6 Operational wastes		a3600	Garbage - Operational wastes
3.7 Animal carcass(es)		a3700	Garbage - Animal carcass(es)
4. CARGO RESIDUES: specify in free text field (may be estimates)		-	
4.1 Marpol Annex I: choose from below		-	
4.1.1 Oily tank washings		a4101	Cargo residues - Marpol Annex I - Oily tank washings
4.1.2 Oily (dirty) ballast water		a4102	Cargo residues - Marpol Annex I - Oily (dirty) ballast water
4.1.3 Scale and sludge from tank cleaning		a4103	Cargo residues - Marpol Annex I - Scale and sludge from tank cleaning

4.1.4 Other - specify in free text field	X	a4104	Cargo residues - Marpol Annex I - Other
4.2 Marpol Annex II: choose from below		-	
4.2.1 Washing waters containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS:	X	a4201	Cargo residues - Marpol Annex II - Washing waters containing noxious cargo residues
4.2.2 Ballast water containing noxious cargo residues: specify in free text field using MARPOL Annex II category X, Y, Z, OS	X	a4202	Cargo residues - Marpol Annex II - Ballast water containing noxious cargo residues
4.2.3 Other, specify in free text field by using MARPOL Annex II category X, Y, Z, OS	X	a4203	Cargo residues - Marpol Annex II - Other
4.3 Marpol Annex V: choose from below		-	
4.3.1 Cargo hold washing water containing residues and or cleaning agents or additives harmful to the marine environment: specify in free text field	X	a4301	Cargo residues - Marpol Annex V - Cargo hold washing water containing residues and or cleaning agents or additives harmful to the marine environment
4.3.2 Cargo hold washing water containing residues and or cleaning agents or additives NOT harmful to the marine environment: specify in free text field	X	a4302	Cargo residues - Marpol Annex V - Cargo hold washing water containing residues and or cleaning agents or additives NOT harmful to the marine environment
4.3.3 Dry cargo residues harmful to the marine environment: specify in free text field	X	a4303	Cargo residues - Marpol Annex V - Dry cargo residues harmful to the marine environment
4.3.4 Dry cargo residues NOT harmful to the marine environment: specify in free text field	X	a4304	Cargo residues - Marpol Annex V - Dry cargo residues NOT harmful to the marine environment
4.3.5 Other - specify in free text field	X	a4305	Cargo residues - Marpol Annex V - Other

Appendix C Technical amendments proposed by the Hazmat Working Group

Reference document HLSG 13.3.2

The following changes will be applied to the MS2SSN_ShipCall_Res and SSN2MS_ShipCall_Res messages in order to align them with the SSN guidelines for reporting HAZMAT:

- The attribute "EmSNumber" is changed to "EmSCode".
- The business rule applicable to the attribute IMOHazardClass is changed to:
"Mandatory if DGClassification="IMDG" or "IBC" or "IMSBC". Refer to the SSN Guidelines on Reporting HAZMAT for information on possible values."
- The description and general rules applicable to attribute "MarpolCode" is changed to:
"The code values are ""X", "Y", "Z", "OS" and "P" (as defined in MARPOL Annex II, IBC code, Marpol Annex III and IMDG code)."
- The description and general rules applicable to attribute "PackingGroup" is changed to:
"Code as appropriate and as defined in IMDG: "I", "II" and "III"

Note: The change to the attribute "UNNumber" was addressed in SSN version 3.2 following a request of the SSN Group 24. (reference document SSN 24.4.1 and 24.4.2).

Appendix D SSN messages specifications

[Document is under preparation]

Appendix E SSN access right policies

[Document is under preparation]

European Maritime Safety Agency

Praça Europa 4
1249-206 Lisbon, Portugal
Tel +351 21 1209 200
Fax +351 21 1209 210
emsa.europa.eu

