

Meeting: 4th SSN / LRIT Group Meeting

Place and date: Lisbon, 23 October 2018

Agenda item: Revision of Data Quality checks

Document number: SSN/LRIT 4.5.2

Submitted by EMSA

Summary	This document presents a set of the SSN data quality checks related to bunkers reporting, data buffering and the timeliness of MRS notifications.
Action to be taken	As per paragraph 3.
Related documents	HLSG 15 (6-7 July 2016), agenda item 4.2 “Improving SafeSeaNet and LRIT”

1 Background

The objective of this document is to present to the Member States the data quality checks EMSA executes or plans to execute in the areas of:

- bunkers reporting,
- data buffering and
- timeliness of MRS notifications

Background information on each of the above data quality check follows:

Reporting bunkers

The HLSG 15 approved the business rules related to the reporting of the details of bunkers carried on board ships to SSN separately from dangerous or polluting goods and agreed for their implementation in SSN v.4.

SSN v.4 (deployed on 21st June 2018) includes notifications the information on bunkers carried on board ships leaving or bound for EU ports in the PortPlus notification. The reporting of bunkers applies to ships over 1000 GT. Bunkers may be reported before arrival (element *BunkersNotificationTowardsPortOfCall*) or before departure (element *BunkersNotificationTowardsNextPort*).

These notifications are to be made available via SSN by these Member States requiring information on bunkers on board to be reported electronically to their National Single Windows (NSW) using the FAL 3 - Ship's Store Declaration (in accordance with their national legislation).

Data buffering

Data buffering and retransmission of data to the central SSN system in the event of technical or communications malfunction is important, and was already reported in prior workshop documents. The retransmission of data, either AIS data (see document SSN/LRIT 4.5.3 AIS data quality report) or PortPlus notifications, is necessary to ensure the completeness and consistency of the information reported to SSN. PortPlus information is conveyed to the THETIS inspection database and the calculations for PSC statistics relating to “fair share” are based on ATAs, ATDs and other relevant SSN information.

Timeliness of MRS notifications

EMSA noticed that MRS information was sometimes submitted to the Central SSN system with unjustified delays of several hours. According to the section 4.2 of the MRS Guidelines¹ MSs should minimize manual intervention for processing and submitting the MRS messages to SSN applying an automatic process. In case this is not in place, MRS notifications have to be provided within 3 hours from receiving the MRS report from a ship, or at the latest, when the ship is leaving the area of responsibility of the competent coastal station.

2 Proposal

EMSA provides feedback on data quality to MSs on a regular basis and with the SSN status reports (sent to each MS) on an annual basis.

Considering the limitations explained in section 1, the reporting of bunkers to SSN should include the following element:

- The number of bunker notifications provided before arrival and/or departure;
- Whether bunker information is provided in time (before arrival or departure); and
- Whether the request-response mechanism is available (as for Hazmat, MRS, etc).

The analysis of data buffering and retransmission of data to the central SSN system in the event of technical or communications malfunction will be regularly reported.

Regarding the timeliness of MRS notifications, this information will be provided regularly to those MSs reporting MRS notifications. The check will compare the “CreatedOn” of the MRS notification in the Central SSN system with the date/time of the reported (“positionReportingDateAndTime” attribute)

The list of data quality checks is presented in the annex and the new checks are indicated in red.

3 Actions required

Member States are invited to take note of the above information and provide feedback.

Annex – Availability and data quality checks (changes inserted in red)

¹ MRS Guidelines are available at <http://www.emsa.europa.eu/ssn-main/documents/item/2069-mrs-guidelines-final-draft.html>

ANNEX

Availability and data quality checks (changes inserted in red)

Check	Details	How? Purpose?	How often	
SSN Related			Daily	Regular Report
Availability of SSN	Applicable to central and national systems	Based on reported full downtimes. Fulfil ICD/IFCD requirements including backup procedures	Continuously	x
Availability of request-response mechanism	Applicable to central and national systems	Requesting for Hazmat, Waste Security and Bunkers details to verify the availability of the details.	x (1 MS/day)	x
Ship details	Dead ships	To correct erroneous data affecting SSN & THETIS	Continuously	
Ports	Declaration of Port Authorities	Detecting Locodes not declared		x
	Activity of Ports	Number of ship calls		x
	Missing Port Notifications	Cross checks with AIS and external data	x (2 MS/Day)	x
	Actual time of arrival / departure	If reported	x (1 MS/day)	x
	Actual time of arrival/ departure	Timeliness against the SentAt		x
	Estimated arrival	Timeliness against the SentAt		x
	Dummy values employed in ETAs/ETDs	Implementation of the Dir. Requirements		x

Check	Details	How? Purpose?	How often	
Rejected messages	Status Code= Rejected	Target is 0 rejected, purpose - implementation of SSN business rules	x (1 MS/day)	x
Location codes	Use of non-identified/ non-defined (in UNECE or SSN Specific)	Harmonisation of destination ports/voyages	x (1 MS/day)	x
	THETIS	To align when necessary SSN and THETIS Locodes	x (1 MS/day)	x
Notifications	Numbers/ Counting	Detect inconsistencies, missing reporting/ Provide overall picture of Ship calls and Hazmat, Waste, Bunkers and Security reporting trends. Exemptions are taken into account	x (1 MS/day)	x
	Number of updates	Detect unnecessary updates		x
Persons on Board	Missing & percentage of reporting vs. dummy values	Implementation of the Dir. Requirements		x
Hazmat	Reported before arrival or after	Implementation of the Dir. requirements		x
	Destination of the HAZMAT	Data quality and accuracy		x
	Missing Hazmat	Cross check with MRS reports	X (random checks)	x
	Monitoring the completeness of Hazmat details (DG Classification and location on board)	To check the content of Hazmat details	x (1 MS/day)	x

Check	Details	How? Purpose?	How often	
Waste	Monitoring the completeness of Waste details (Last port and date of last delivery and reporting of the types and amounts of waste to be delivered and/or remaining on board)	To check the content of Waste details	x (1 MS/day)	x
	Reported before arrival or after	Implementation of the Dir. requirements		x
Security	Monitoring the completeness of Security details (last 10 calls and validity of port facility information)	To check the content of Security details	x (1 MS/day)	x
	Reported before arrival or after	Implementation of the Dir. requirements		x
Bunkers	Reported before arrival and/or departure	Implementation of the requirements		x
Incident Reports	Reporting of incidents or accidents	Implementation of the Dir. requirements/ Availability of data/ Types of reports		x
	Monitoring the completeness of IR details	To check the content of IR details	Continuously	x

Check	Details	How? Purpose?	How often	
MRS reporting	Number/ Implementation/ Coverage	Implementation of the Dir. requirements		x
	MRS availability	Monitor the MRS details availability	x (1 MS/day)	x
	Reception of MRS notifications	Timeliness against the "positionReportingDateAndTime"		x
AIS reporting	Number/ Implementation/ coverage	Implementation of the Dir. requirements		x
	AIS availability	Monitor the AIS details availability	x (1 MS/day)	x
Data buffering	Monitoring the provision of buffered data (PortPlus or AIS) following a downtime	Verify back-up procedures according to IFCD (v1.2, section 4.4)		x

Check	Details	How? Purpose?	How often	
EU LRIT Related			Daily	Regular Report
Ship LRIT DB	Flag of the ships	To detect ships not having the country flag		x
	Model of the terminal	To properly identify those with type "Other"		x
EU LRIT CDC	Ships not integrated	To keep all ships registered in the EU LRIT DB reporting at the expected rate (6h)		x
	Ships not reporting			x