

SafeSeaNet monthly report September 2007

1. Background information

The purpose of the report is to produce on a monthly basis, specific measurable elements and figures giving a full, clear and current picture of the situation. The report may be further analysed by EMSA, the Commission and the MS for extracting conclusions on the usability of SSN system.

The V1.9 training site was deployed on the 12th September. EMSA has requested feedback from the MS on this new version of SSN. Deployment into the production environment is planned for the 15th of October, providing one month for testing. So far new version was validated on the acceptance environment with active support of two Member States: Poland and Ireland.

Maritime Support Services (MSS) continue its operations, actively supporting participating countries and carrying out random checks of the system. This is an on-going task which main purpose is to harmonise the performance of the SSN users.

The data Quality Working Group had the kick off meeting the 5th September in Bonn (Germany) and continue its work in Lisbon during the ISWG meeting the 20th. The initial results will be presented at the SSN Workshop 8 (24&25 of October).

2. Type of information

All bellow information was produced through the SSN application with the support of the ICT pillar.

2.1. Notifications

The table 1 gives a picture of the notifications provided by Member States to SSN per message type and interface.

Table 1 - Notifications SSN (Sept.2007)

COUNTRY	INTERFACE	SHIP		PORT	HAZMAT	ALERT	SECURITY	TOTAL
		AIS	MRS					
Belgium	XML	123,945		12,562	1,391			137,898
Denmark	XML	310,486			502			310,988
Finland	XML			9,720	479			10,199
Germany	XML				1,610			1,610
Ireland	XML				30	1		31
Italy	XML		47,363		100			47,463
Lithuania	XML			1,836	123			1,959
Netherlands	Web			227	61	5		293
Netherlands	XML	287,765		12,372	2,366			302,503
Norway	XML	412,802		1,744	710			415,256
Poland	XML	103,884		6,535	1,847		4,663	116,929
Portugal	Web			52				52
Romania	Web			920	87			1,007
Slovenia	Web		126	212	6			344
Spain	XML			11,766	315			12,081
Sweden	XML	7,176		7,383	536			15,095
TOTAL		1,246,058	47,489	65,329	10,163	6	4,663	1,373,708

EMSA comment

Web interface is being used to provide notifications by some LCAs from The Netherlands, Portugal, Romania and Slovenia. Portugal is in a temporary situation and the web interface is used by one single port (Funchal, Madeira Island); Netherlands is in the same situation. Slovenia and Romania continue using the web interface for providing notifications to SSN. At SSN 8 (Lisbon 24 and 25 October 07), EMSA will make a proposal for phasing out the web interface for data providing. Twelve countries introduced XML interfaces and are using it actively.

Conclusions of the above table:

There are MS not sending notifications regularly such as Bulgaria, Cyprus, Estonia, France, Iceland, Greece, Latvia, Malta and the United Kingdom. The reasons are:

- **Bulgaria:** a training course has been performed. They have expressed their intention to start their national development (XML interface). There is a procurement activity on-going.
- **Cyprus:** the first SSN contact has been concluded recently (July 07).
- **Estonia:** no action reported.
- **France:** The connection trials between Traffic 2000 and SSN were successfully performed. France is now designated as "commissioned" in the EMSA documents.
- **Iceland:** commissioning tests passed (August 07). Work in progress to join production site. Iceland will join the production site with minimum set of information provided only in notifications.
- **Greece:** still in testing.
- **Latvia:** no action reported.
- **Malta:** Tests performed (August 07). Work in progress to join production site. Malta will join the production site with AIS Ship Notifications and will be able act in request/response mode.
- **Romania:** a training course has been performed. On July Romania requested to enter into production through the Web interface and is using the interface actively since than providing Port and Hazmat Notifications so far. Accordingly the different documents and the next steps explanations have been forwarded. Romania notified their intention to start their national development (XML interface).
- **The United Kingdom:** they are currently finalising their own tests and plan to start the commissioning test soon.

Figure 1 – Notifications per Type

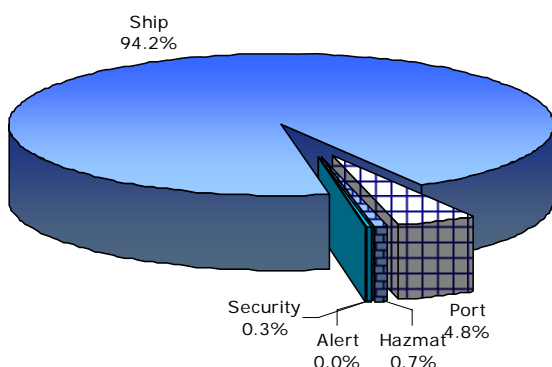
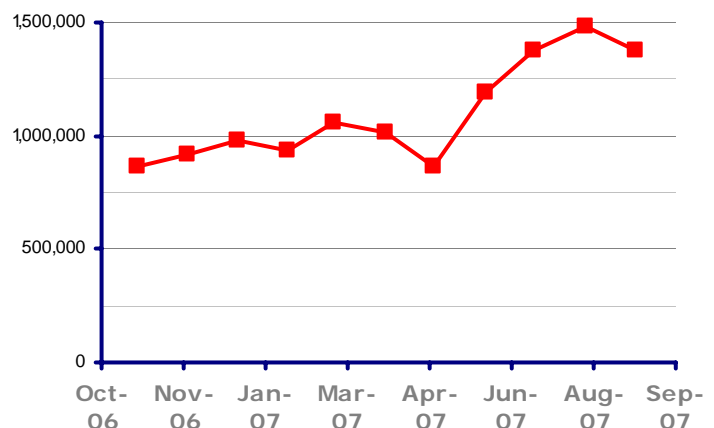


Figure 2 –Notifications: Nov.06/Sept.07



2.2. Requests

The table 2 gives a picture of the requests made by Member States to SSN per message type and interface.

Table 2 - Requests SSN (Sept.2007)

COUNTRY	INTERFACE	SHIP	PORT	HAZMAT	ALERT	SECURITY	TOTAL
Belgium	Web	20	2	5			27
Denmark	Web	9					9
Denmark	XML		1	6			7
Finland	Web	13	1	1			15
Germany	Web	17	5	1			23
Germany	XML			16			16
Greece	Web	6		1			7
Ireland	XML				1		1
Italy	Web	13		1			14
Italy	XML	4		4			8
Lithuania	Web	36	5	5		2	48
Netherlands	Web	378	6	12	1		397
Norway	Web	4	1	4			9
Norway	XML			54,703			54,703
Portugal	Web	57	3				60
Romania	Web	1,306	15	4			1,325
Slovenia	Web	507	5				512
Spain	Web	68	24	8			100
Sweden	Web	42	7	3			52
European Commission	Web	200	160	12			372
TOTAL		2,680	235	54,786	2	2	57,705

EMSA comment

The web interface is most commonly used by the Member States to request information. Norway, Germany, Denmark and Italy are using their Xml interface for the request functionality. Number of information requested is growing. Most popular requests are for HAZMAT and Ship Notifications.

Figure 3 – Requests per Type

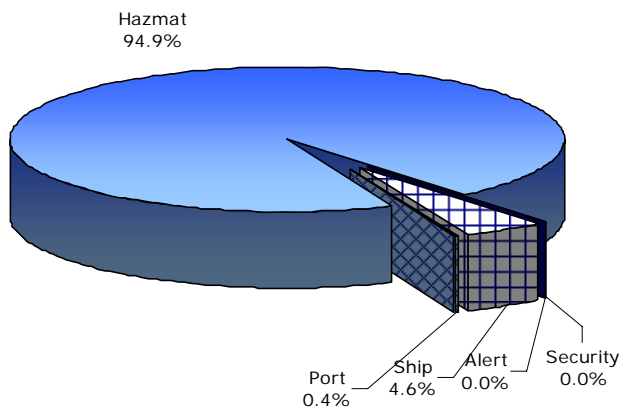
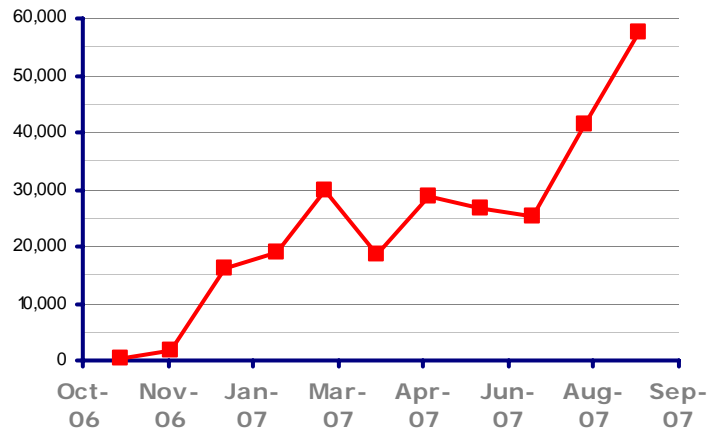


Figure 4 – Requests: Nov.06/Sept.07



2.3. LOCODEs per MS and the number of notification (port and HAZMAT) associated with these LOCODEs

In this chapter the notifications sent to SSN are analysed according to the next port of call LOCODE mentioned in the Port and Hazmat notifications. The information is grouped by three categories, European ports, non European ports and unknown ports. The top 10 EU ports are also displayed in the table.

Table 3 – Port and Hazmat Notifications per LOCODE (Sept.2007)

COUNTRY	LOCODE	PORT	HAZMAT	TOTAL	
EU Top 10 Ports					
NETHERLANDS	NLRM	Rotterdam	7,888	2,322	10,210
FINLAND	FIHEL	Helsinki	3,254	219	3,473
POLAND	PLGDY	Gdynia	2,071	835	2,906
SPAIN	ESLPA	Las Palmas	2,642	153	2,795
NETHERLANDS	NLVI	Vlissingen	2,293	18	2,311
LITHUANIA	LTKLJ	Klaipeda	1,829	154	1,983
POLAND	PLSWI	Swinoujscie	1,420	476	1,896
SPAIN	ESALG	Algeciras	1,858	24	1,882
POLAND	PLNOW	Nowy Port	1,506	133	1,639
SPAIN	ESBCN	Barcelona	1,358	115	1,473
EU Ports			55,975	7,879	63,854
Non EU Ports			0	262	262
Port unknown		UNKWN	9,248	1,875	11,123

EMSA comment

The table shows the proportion of notifications by LOCODE. However as the next port of call is not mandatory information (according to the current XML Reference Guide), if the vessel is bound for a non EU port, "port unknown" has a higher proportion. In comparison with previous months the proportion of "UNKWN" LOCODE in Port Notifications decreased four times (possibly due to the follow-up actions initiated by the MSS).

2.4. Availability of the SSN EIS (H/W, S/W, communications etc) and the response time (diagram)

During the reporting period, the average response time of SSN in production environment, was between **1.50 and 1.80** seconds.

The standard response time and the minimum acceptable response time have yet to be defined. After definition of the above, information about the specific periods (date/time) when degradation of the system took place (response time below the minimum acceptable response time) will be produced. This data can only be gathered using the resources available at the Data Centre.

To supplement the limited information currently provided through the "Mirella" web site, EMSA developed a test tool. This test probe consists, in fact, on the test client tool available since last year, programmed to send a message to the production site every ten minutes. The results are presented in the next table and only refer to the production environment. Each record on the table represents a failed attempt to communicate with SSN.

Table 4 – SSN Availability – Periods of Interruption (Sept.2007)

MDAY	MONTH	YEAR	DATE	Period of Interruption (min.)	FROM	TO
25	Sep	2007	2	10	25-Sep-07	25-Sep-07

EMSA comment

Care should be taken when interpreting this information, because the results may be biased due to the connectivity conditions between DIGIT and EMSA. Furthermore, this information only tells that SSN is responding to a simple message, which does not even assure for SSN full operational capability (meaning that this does not represent that SSN responds to the request).

2.5. Error Analysis

The table in this chapter shows the number not accepted notifications in SSN by type of error and by Member State. N/R stands for user not identifiable.

Table 5 – Errors Analysis (Sept.2007)

COUNTRY	AccessDenied	InvalidFormat	ServerError	Total Of TOTAL
Belgium			4	4
Denmark		421	11	432
Germany		2	1	3
Italy			19	19
Lithuania	1	152		153
N/R	112	173,669	24	173,805
Netherlands	1	211	15	227
Norway		387	11	398
Poland		520	19	539
Romania	2	28		30
Slovenia		3		3
Spain	3			3
Sweden		2	4	6
Total	119	175,395	108	175,622

EMSA comment

Message error type *Invalid Format* still has the higher occurrence but the origin has been identified. EMSA and the SSN group expect that this figures will decrease significantly soon.

Figure 5 – Errors per Type

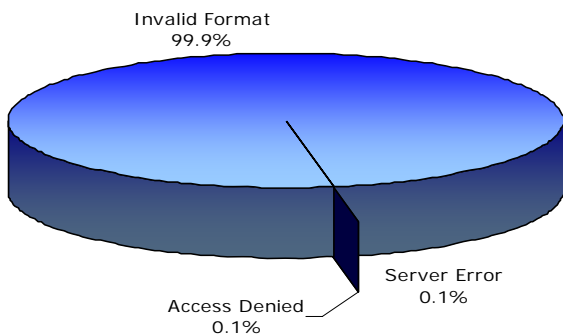
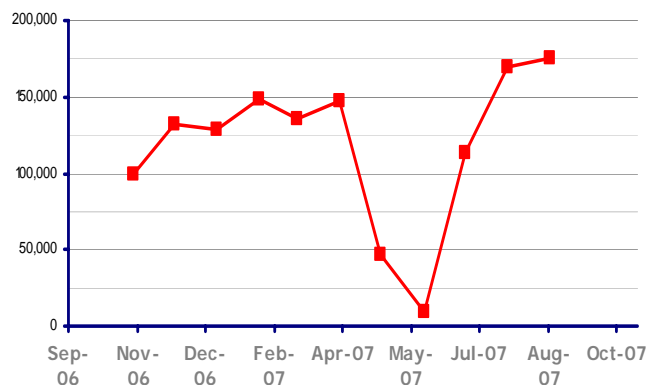


Figure 6 – Errors: Nov.06/Sept.07



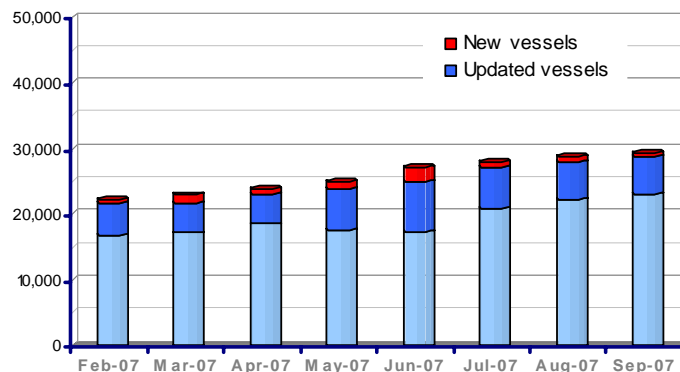
2.6. Ship database and new entrees during the previous month

The total lists of ships recorded in SafeSeaNet database with their IMO number, MMSI, ship's name and call sign has now a total of 29,366 records.

Table 6 – Ship database

	New vessels	Updated vessels	TOTAL	var (%)
Feb-07	554	5,025	22,306	2.55%
Mar-07	1,256	4,553	23,008	3.15%
Apr-07	842	4,487	23,850	3.66%
May-07	1,096	6,260	24,946	4.60%
Jun-07	2,274	7,517	27,220	9.12%
Jul-07	744	6,407	27,964	2.73%
Aug-07	805	5,825	28,769	2.88%
Sep-07	597	5,729	29,366	2.08%

Figure 7 – Ship database



EMSA comment

During last month 597 new vessels were recorded and 5,729 vessels updated, in a total of 6,326 records created/updated (average of 1581 records per week).

2.7. SSN Users

The table in this chapter gives a picture of the SSN registered users by Member State per associated role and interface.

Table 7 – SSN Users (Sept.2007)

COUNTRY	INTERFACE		ROLE TYPE									TOTAL
	Web	XML	ADM	ALL	NCA	MIN	POR	CST	PSC	OTH	PMoU	
Belgium	4	5	1		2		4	1	1			9
Czech Republic	2				1	1						2
Denmark	1	1			2							2
European Commis	9	2	5	5							1	11
Finland	7	1			2		2	4				8
Germany	1	1			2							2
Greece	1				1							1
Iceland		1			1							1
Ireland	1	1			2							2
Italy	1	1			2							2
Lithuania	9	1			1		2		6	1		10
Netherlands	17	5			3		11	2	4	1	1	22
Norway	5	2		1	6							7
Poland	1	1			2							2
Portugal	23	23			2		44					46
Romania	9				1		5	1		2		9
Slovenia	3				1				1	1		3
Spain	55	1			2	1		23	30			56
Sweden	1	1			2							2
TOTAL	150	47	6	6	35	2	68	31	42	5	2	197

EMSA comment

From the figures above, results that most Member States have not yet introduced in SSN all their users, namely their LCAs (PORT, PSC and CST). However it is worth noting that all the SSN users are not visible in the current version of SafeSeaNet because the same userID may be used by several persons. The next version of SSN v1.9 will allow creating several users per authority giving visibility to all participants. Romania increased number of it's WEB users during September. EMSA has created new XML user for NCA Iceland.

3. Member States XML status

This table gives the full picture of the situation of each MS regarding the XML status (automatic connection for the message exchange):

		SSN Notifications (XML interface)			
		Port	Hazmat	Ship	Alert
BE	Belgium	yes	yes	yes	no
BU	Bulgaria	no	no	no	no
CY	Cyprus	no	no	no	no
DK	Denmark	com	yes	yes	no
EE	Estonia	no	no	no	no
FI	Finland	yes	yes	no	no
FR	France	com	com	com	com
DE	Germany	no	yes	no	no
GR	Greece	no	no	no	no
IC	Iceland	com	com	com	no
IE	Ireland	com	com	com	com
IT	Italy	yes	yes	yes	yes
LV	Latvia	no	no	no	no
LT	Lithuania	yes	yes	no	no
MT	Malta	com	com	com	com
NL	Netherlands	yes	yes	yes	no
NO	Norway	yes	yes	yes	no
PL	Poland	yes	yes	yes	yes
PT	Portugal	com	com	no	no
RO	Romania(*)	no	no	no	no
SI	Slovenia(*)	no	no	no	no
ES	Spain	yes	yes	no	no
SE	Sweden	yes	yes	yes	no
GB	United Kingdom	no	no	no	no
updated: 24.September.2007					
Production		9	11	7	2
Commissioned		6	5	4	3
No operation		9	8	13	19
		24	24	24	24
(*) Currently using the web interface					

Yes: means in production;

Com: means commissioned, test successfully completed but not in production;

No: means under testing or activities as previously referred.