



9th SSN/LRIT Group Meeting

LRIT Data Quality report

Agenda item 9.5.1

Vincent Guida / Senior Project Officer
Department 3: Simplification/Unit 3.3

Videoconference / 25 May 2021

LRIT IDE PROD. Performance

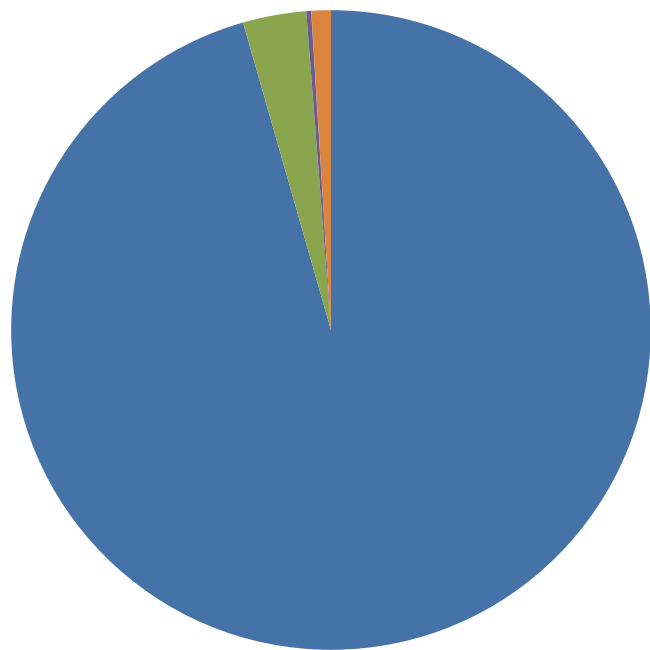
(1 June 2020 – 31 March 2021)



- Availability: 99.71%
- Processing time below 30 seconds: 99.88%
- Messages processed: > 12.2 millions
- IMSO Audit n°12 (15-10-2019 to 30-09-2020):
One non-conformity (DR site-USCG)

LRIT IDE PROD. Statistics

(1 June 2020 – 31 March 2021)



- Periodic Position Report
- Polled Position Report
- SAR Position Report
- Position Request
- SAR Position Request
- SURPIC Request

Type	Number of Messages
Periodic Position Report	9595936
Polled Position Report	1135
SAR Position Report	320843
Position Request	24178
SAR Position Request	1494
SURPIC Request	98017
Total	10,041,603

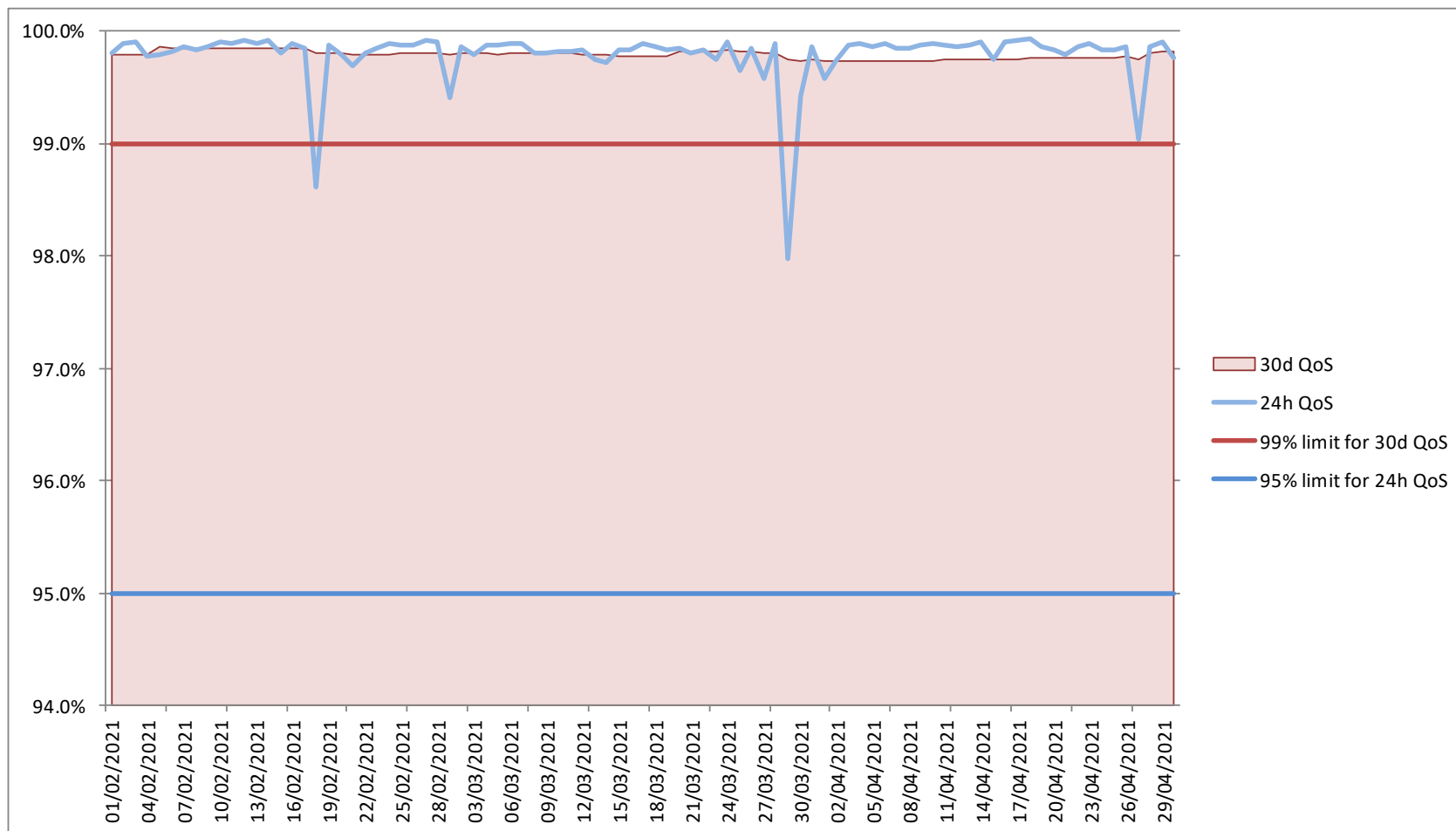
LRIT IDE PROD. Incident

(1 June 2020 – 31 March 2021)



- **Failover exercise to Disaster Recovery site, hosted and operated by USCG**
- **Impact:**
 - Availability: under 95% over 2 consecutive days
 - Downtime: 6.5 hours (17-11-20) and 9.5 (18-11-20)

February-April 2021: No incidents – no incident over the past year



Quality of Service = $\frac{\text{Number of Position Reports meeting Latency requirement}}{\text{Total number of Position Reports}}$

EU LRIT CDC

System Availability

Reference Period	Availability > 99%	User Web Interface availability > 99%
Q3 2020	99.82%	99.67%
Q4 2020	99.89%	99.84%
Q1 2021	99.70%	99.91%

Measure using Message Type 11 System Status



- **IMSO Audit n°11 completed in August 2020, 2 observations and 1 non conformity noted**
 - **1 obs. corrected in EU CDC v3.3.2 (deployed 08/2020)**
 - **1 obs. corrected in EU CDC v3.4 (deployed 11/2020)**
 - **1 NC corrected in EU CDC v3.4 (deployed 11/2020)**
- > All IMSO findings corrected**



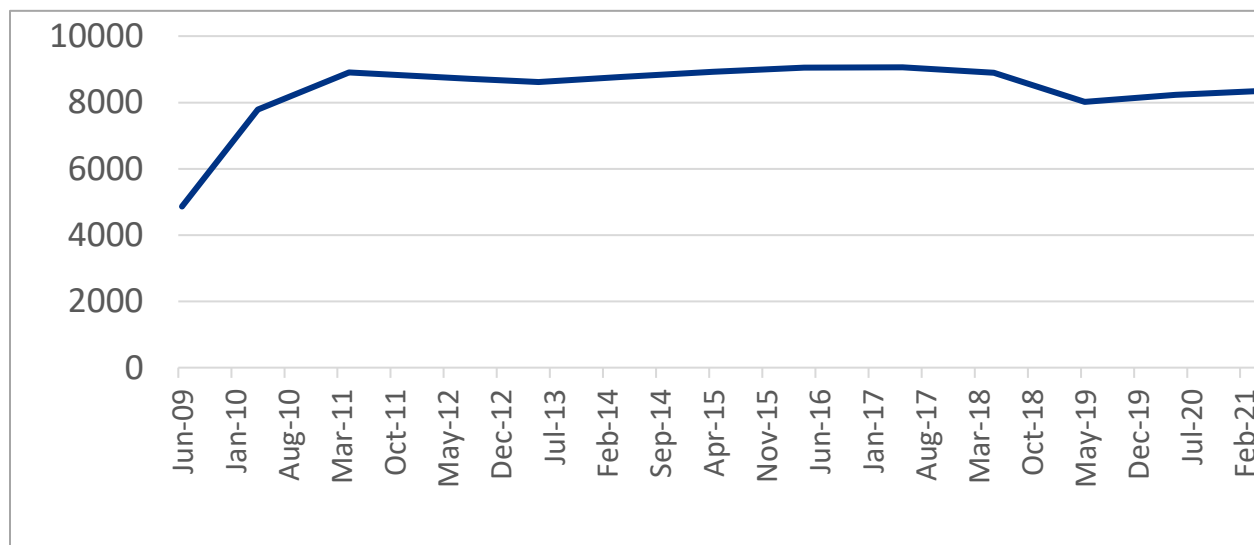
- **4 EU CDC releases were deployed since 05/2020:**
 - **Correction of IMSO audit findings**
 - **Improvement of monitoring tool**
 - **Improvement of Training environment**
 - **Development of web services to prepare SEG integration**
 - **Improvement of the XML interface distribution**
 - **Bug corrections**

LRIT Ship DB

Evolution of number of ships



- In Ship DB:**

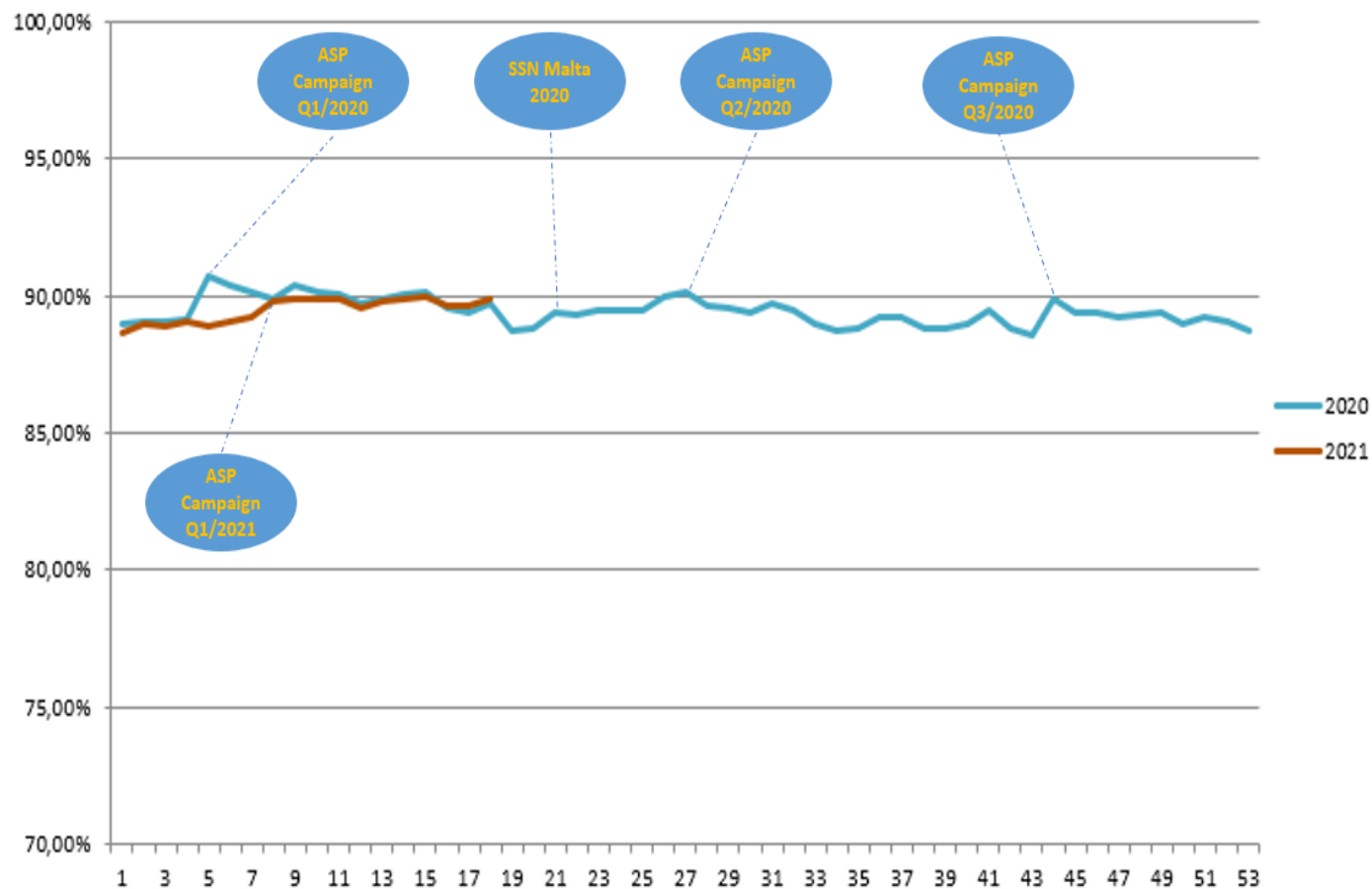


- 1.5% increase compared with May 2020, +120 ships: mainly PRT (+100) and NOR (+50)**

EU CDC

Evolution of reporting ships

- Stable



EU CDC: reporting per CG



without stopped

with stopped

Flag	Ship 05-2021	May-20	May-21		May-20	May-21
BEL	128	93.7	94.3		89.5	89.8
BGR	8	100.0	100.0		100.0	87.5
CUW	20	80.0	65.0		80.0	65.0
CYP	975	96.6	98.5		91.1	92.4
DEU	154	95.7	98.7		93.4	98.7
DNK	489	89.9	90.7		89.3	90.2
ESP	208	69.7	70.7		69.4	69.7
EST	16	88.9	68.8		88.9	68.8
FIN	115	99.0	98.2		90.4	96.5
FRA	231	86.7	91.5		75.6	79.7
GEO	1	100.0	0.0		100.0	0.0
GRC	516	92.6	95.9		89.6	91.1
GRL	1	100.0	100.0		100.0	100.0
HRV	34	97.3	93.8		94.7	88.2
IRL	44	77.8	84.1		77.8	84.1
ITA	559	96.7	99.4		87.6	91.1
LTU	31	96.6	87.1		96.6	87.1
LUX	159	88.8	96.1		77.8	78.0
LVA	33	81.0	90.9		81.0	90.9
MLT	2118	89.2	88.8		89.1	88.6
MNE	4	100.0	75.0		100.0	75.0
NLD	836	88.6	86.2		88.1	85.6
NOR	730	74.9	73.3		74.4	72.6
POL	18	100.0	100.0		95.0	94.4
PRT	567	81.7	89.6		81.6	89.6
ROU	1	50.0	100.0		50.0	100.0
SVN	4	N/A	N/A		0.0	0.0
SWE	102	98.9	97.9		90.8	91.2
TUN	7	66.7	71.4		66.7	71.4
Total	8109	88.9	89.7		86.4	87.0

delegated to EMSA

≥ 90%

≥80% and < 90%

< 80%



- **16 CGs have a reporting rate > 90%**
- **12 CGs delegated fleet monitoring to EMSA**
- **AAS enabled for 1295 ships (+28%) from 15 (+2) different flags, which allow shipowners to react quickly (activated by Ship DB Managers)**
- **AAS enabled for 13 EU CDC users (Flag Administration) from 7 countries (activated by LRIT NCAs)**



- Inmarsat updated the end of IsatM2M service: from 31-12-2020 to 31-12-2021
- 50 ships transmitting LRIT data with this network in EU CDC
- Check LRIT Ship DB, and insist with shipowners/ship managers to use redundant terminals on board (Inmarsat C/mini C or Iridium)

Cyprus	1
Estonia	3
Germany	11
Greece	3
Malta	5
Netherlands	2
Norway	17
Portugal	4
Spain	4
Total	50

Emails in case of terminal model “Other” in Ship DB

- Today, Ship DB allows the possibility to register a terminal with Terminal model=Other
-> may delay integration process
- Objective: remove this option; possible only when no terminal uses it
- 7 terminals remaining:
(2 last year)

Denmark	1
Lithuania	1
The Netherlands	2
Poland	1
Portugal	2
Total	7

- If new terminal model: EMSA will create it



- **NCAs should revoke EU CDC accounts of retired users in their Administration**
- **User creation: follow EMSA login policy:**
 - **CC_FIRSTNAME.LASTNAME**
CC: country code, according to ISO
 - minimum length: **7 characters**
- **EU LRIT Ship DB: MSS creates the accounts; but previously, the user (login) must exist in the EU CDC**

IMSO remark from 10th and 11th Audits



- **IMSO noticed that around 1/3 of EU CDC ships were coded as ship type “Other”**
- **IMSO insisted that this category should be used only if ships cannot be classified in the types: passenger ship, cargo ship and tanker (as per MSC.1/Circ.1259)**
- **Random check done by IMSO showed that 57% of those “Other” were cargo ships**



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European Maritime Safety Agency