



7th SSN/LRIT Group Meeting

LRIT Data Quality report

Agenda item 7.5.1

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Department 3: Unit 3.3 Simplification

Lisbon / 13 May 2020

LRIT IDE PROD. Performance

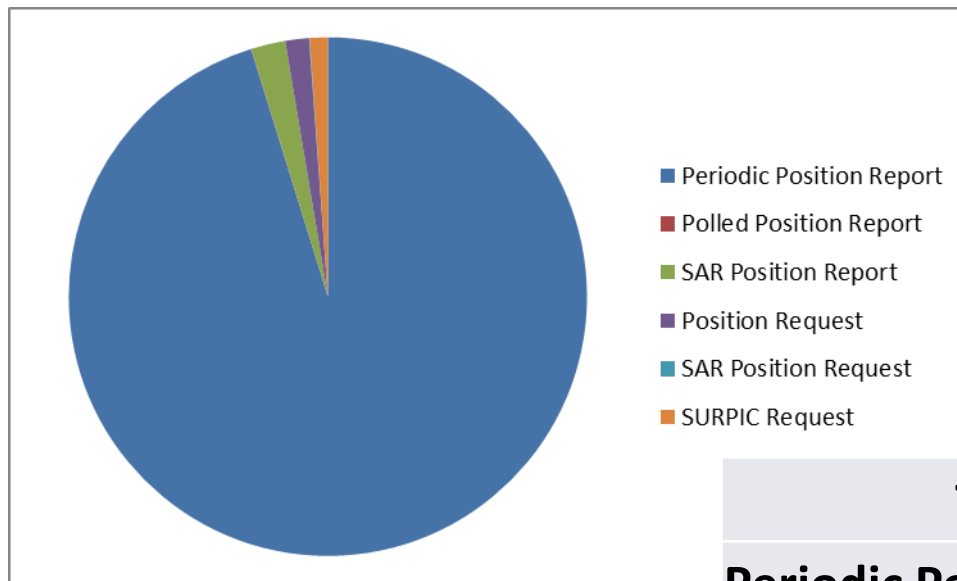
(1 November 2019 – 30 April 2020)



- Availability: **99.81%**
- Processing time below 30 seconds: **99.97%**
- Messages processed: > **7.3 millions**
- IMSO Audit n°11 (10-2018 to 10-2019): One non-conformity (DR site-USCG)

LRIT IDE PROD. Statistics

(1 November 2019 – 30 April 2020)



Type	Number of Messages
Periodic Position Report	5685598
Polled Position Report	1391
SAR Position Report	127210
Position Request	88404
SAR Position Request	2158
SURPIC Request	67095
Total	5,971,856

LRIT IDE PROD. Incident (i)

(31 Dec 2019 – 1 Jan 2020)



- **Renewal process of all LRIT PROD certificates on 29 Oct 2019**
- **Installation script failed to install the LRIT IDE**
- **Consequences:**
 - Availability: under 95% in 2 consecutive days
 - Downtime: more than 4 hours in 2 consecutive days

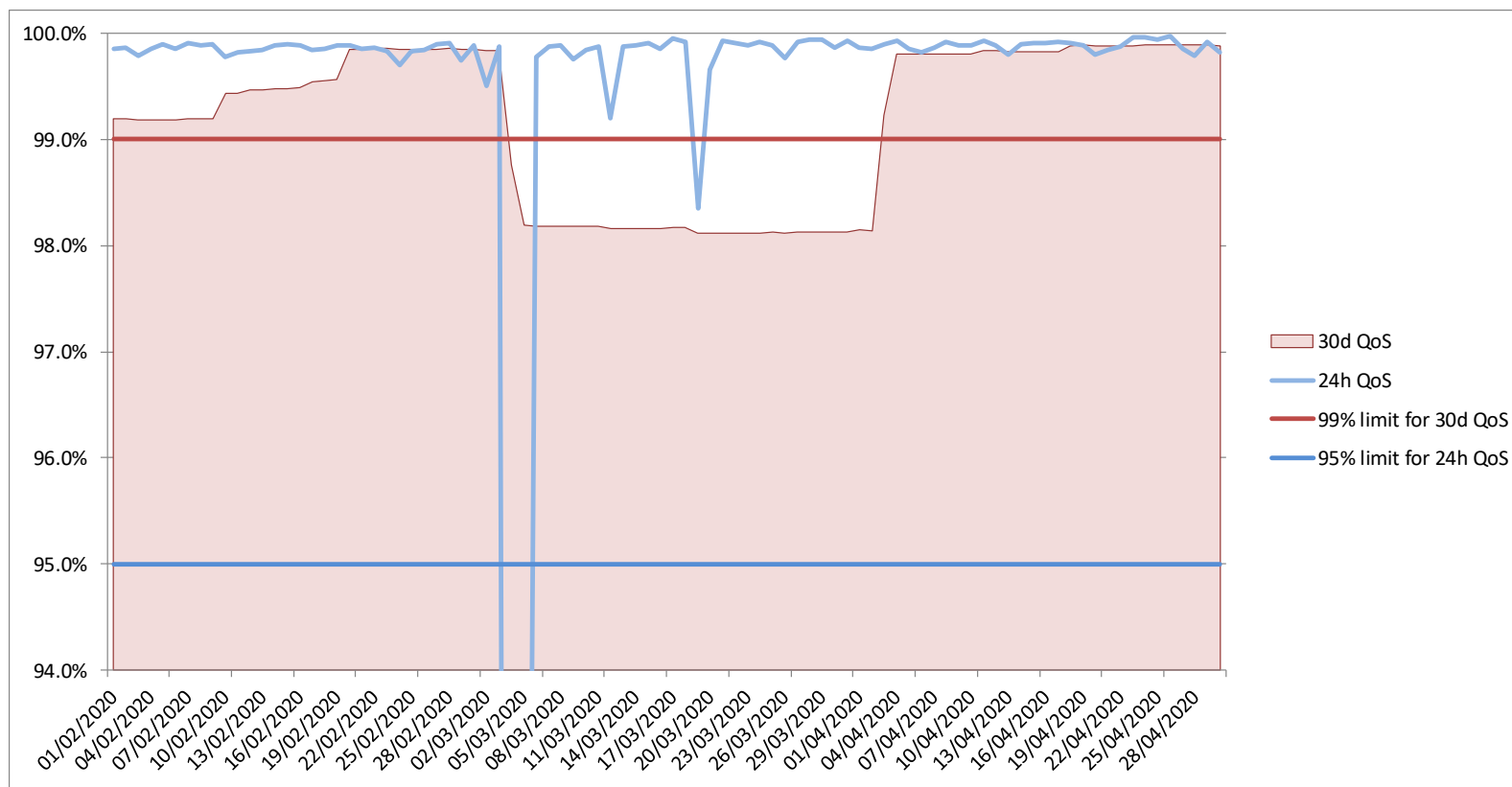
LRIT IDE PROD. Incident (&ii)

(31 Dec 2019 – 1 Jan 2020)



- **LRIT Community informed via the Admin Interface Notification no. 22403**
- **Steps to validate the installation of the IDE certificate added in the installation procedure**
- **Dedicated sensor to check the validity of the IMO certificates**
- **Contractor to correct the installation script**
- **LRIT OGB informed with the participation on the EC**

February-April 2020: 1 breach in IMO requirements the 4 and 5 March (intermittently degraded link between ASP and one CSP)



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

Reference Period	EU CDC availability > 99%	User Web Interface availability > 99%
Q2 2019	99.91%	99.87%
Q3 2019	99.93%	99.74%
Q4 2019	99.86%	99.76%
Q1 2020	99.89%	99.84%

Measure using message 11 System status



- **IMSO Audit n°10 completed in October 2019, 2 observations and 2 non conformities noted:**
 - 1 obs. to be corrected in EU CDC v3.3.1
 - 1 obs. corrected in EU CDC v3.2, deployed in March 2019 (audit based on sample data from 12/2018)
 - 1 NC to be corrected in EU CDC v3.3.2
 - 1 NC : one part corrected with a patch in May 2019, other part linked with removal of UK and its overseas territories



- **ASP or CSP incidents: 5 days with 24h QoS<95%, 30d QoS impacted only once (below 99%, in March 2020)**
- **EU CDC release v3.3.0 deployed on the 31-03-2020:**
 - **Implementation of IMO third modification of the LRIT system**
 - **Improvement of the XML interface distribution**
 - **Bug corrections**

LRIT Ship DB

Evolution of number of ships



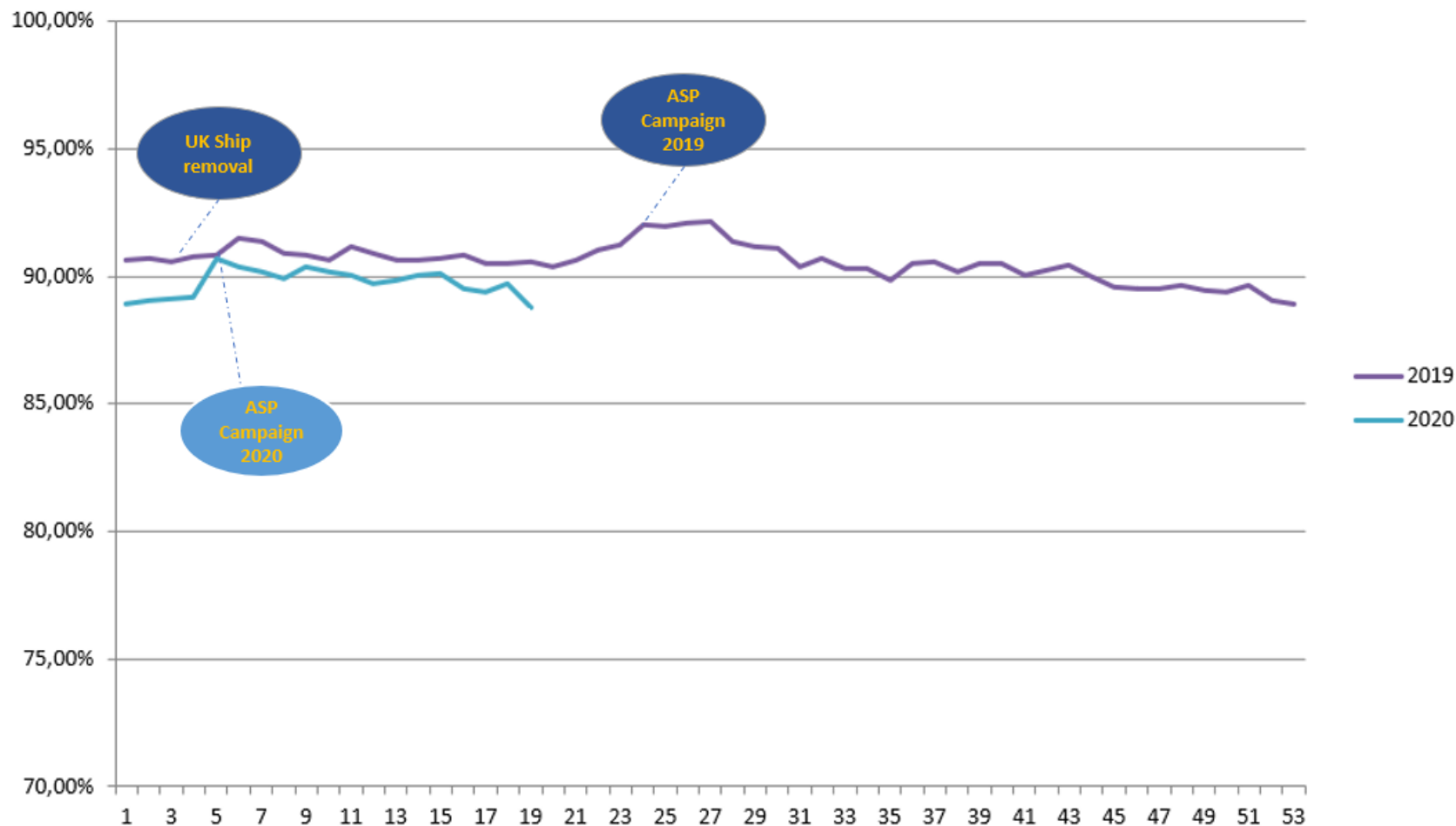
- In Ship DB:** (green: increase, orange: decrease)

Jun-09	Apr-10	Apr-11	Aug-12	May-13	Apr-14
4860	7790	8907	8717	8615	8773

Apr-15	Apr-16	May-17	May-18	May-19	May-20
8930	9053	9062	8899	8025	8236

- 2.6% increase compared with May 2019, mainly Portugal: +133 ships since May 2019**

- Stable but below 2019:



EU CDC: reporting per CG

 delegated to EMSA

 ≥ 90%

 ≥80% and < 90%

 < 80%

Flag	Ship 05-2020	without stopped			with stopped	
		May-19	May-20		May-19	May-20
BEL	133	96.7	93.7		91.3	89.5
BGR	10	72.7	100.0		72.7	100.0
CUW	25	81.5	80.0		81.5	80.0
CYP	981	98.7	96.6		93.1	91.1
DEU	166	98.2	95.7		96.5	93.4
DNK	440	87.9	89.9		87.9	89.3
ESP	209	80.1	69.7		78.2	69.4
EST	18	83.3	88.9		83.3	88.9
FIN	114	97.4	99.0		96.6	90.4
FRA	225	91.7	86.7		77.2	75.6
GEO	4	N/A	100.0		N/A	100.0
GRC	559	93.7	92.6		90.9	89.6
GRL	1	100.0	100.0		100.0	100.0
HRV	38	100.0	97.3		97.4	94.7
IRL	45	77.3	77.8		77.3	77.8
ITA	566	97.7	96.7		89.6	87.6
LTU	29	100.0	96.6		100.0	96.6
LUX	153	87.3	88.8		74.3	77.8
LVA	21	88.9	81.0		88.9	81.0
MLT	2123	89.6	89.2		89.4	89.1
MNE	4	100.0	100.0		100.0	100.0
NLD	835	94.4	88.6		92.8	88.1
NOR	683	75.6	74.9		75.2	74.4
POL	20	100.0	100.0		94.7	95.0
PRT	472	79.6	81.7		79.6	81.6
ROU	2	50.0	50.0		50.0	50.0
SVN	4	N/A	N/A		0.0	0.0
SWE	98	99.0	98.9		97.0	90.8
TUN	6	N/A	66.7		N/A	66.7
Total	7984	90.6	88.9		88.0	86.4



- **11 CGs have a reporting rate > 90%**
- **12 CGs delegated fleet monitoring to EMSA**
- **AAS enabled for 1012 ships (+43%) from 13 (+2) different flags, which allow shipowners to react quickly (activated by Ship DB Managers)**
- **AAS enabled for 14 EU CDC users (Flag Administration) from 8 countries (activated by LRIT NCAs)**



- **Inmarsat announced the end of IsatM2M service on 31 December 2020**
- **157 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)**

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
- 2 terminals remaining, from The Netherlands
- Meanwhile: EMSA (MSS) will send emails to LRIT Ship DB Managers in case new ships are registered with this option
- If new terminal model: EMSA will create it

Search ships functionality



Last minute suggestion from Croatia: update the Search ships functionality in EU CDC

Currently, it retrieves from EU CDC DB any ship from any flag which reported at least one position in the EU CDC -> can be old and outdated info (not designed for this purpose)

Suggestion from Croatia: to retrieve only valid info: meaning only EU CDC ships

Opinions?



- **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**



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 **EMSA**
European Maritime Safety Agency