



2nd SSN LRIT Group Meeting

LRIT Data quality report

Agenda item 2.5.1

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Department C: Operations/Unit C.2.1

Lisbon / 18 October 2017

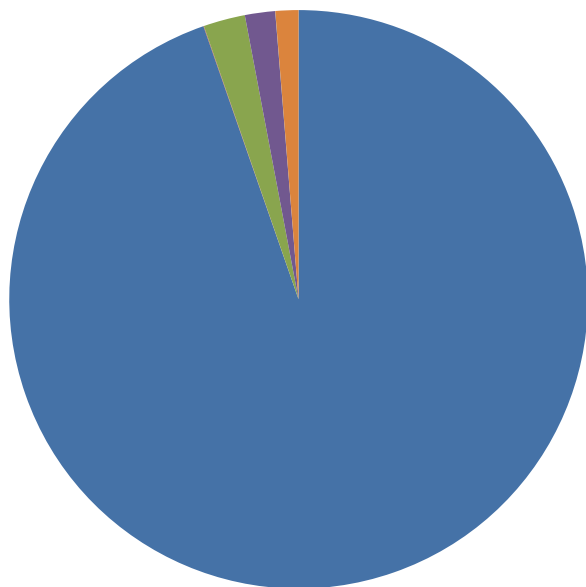
LRIT IDE PROD. Performance

(1 April 2017 – 30 September 2017)

- Availability: 99.99%
- Processing time below 30 seconds: 99.96%
- Messages processed: more than 8.6 million
- Helpdesk Support (LRIT User Community) and Additional Activities:
 - Deployment of version 3.0 in PROD
 - Tests Validation of Mongolia NDC, Tuvalu NDC, Ecuador NDC, Saudi Arabia, NDC, Bahrain NDC, Morocco NDC

LRIT IDE PROD. Statistics

(1 April 2017 – 30 September 2017)



Type	Number of Messages
Periodic Position Report	6,362,489
Polled Position Report	1,918
SAR Position Report	156,651
Position Request	113,355
SAR Position Request	462
SURPIC Request (1627):	
- 78 Coastal	
- 1549 SAR	86,356
Total	6,721,231

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

LRIT IDE PROD. Incidents

(1 April 2017 – 30 September 2017)



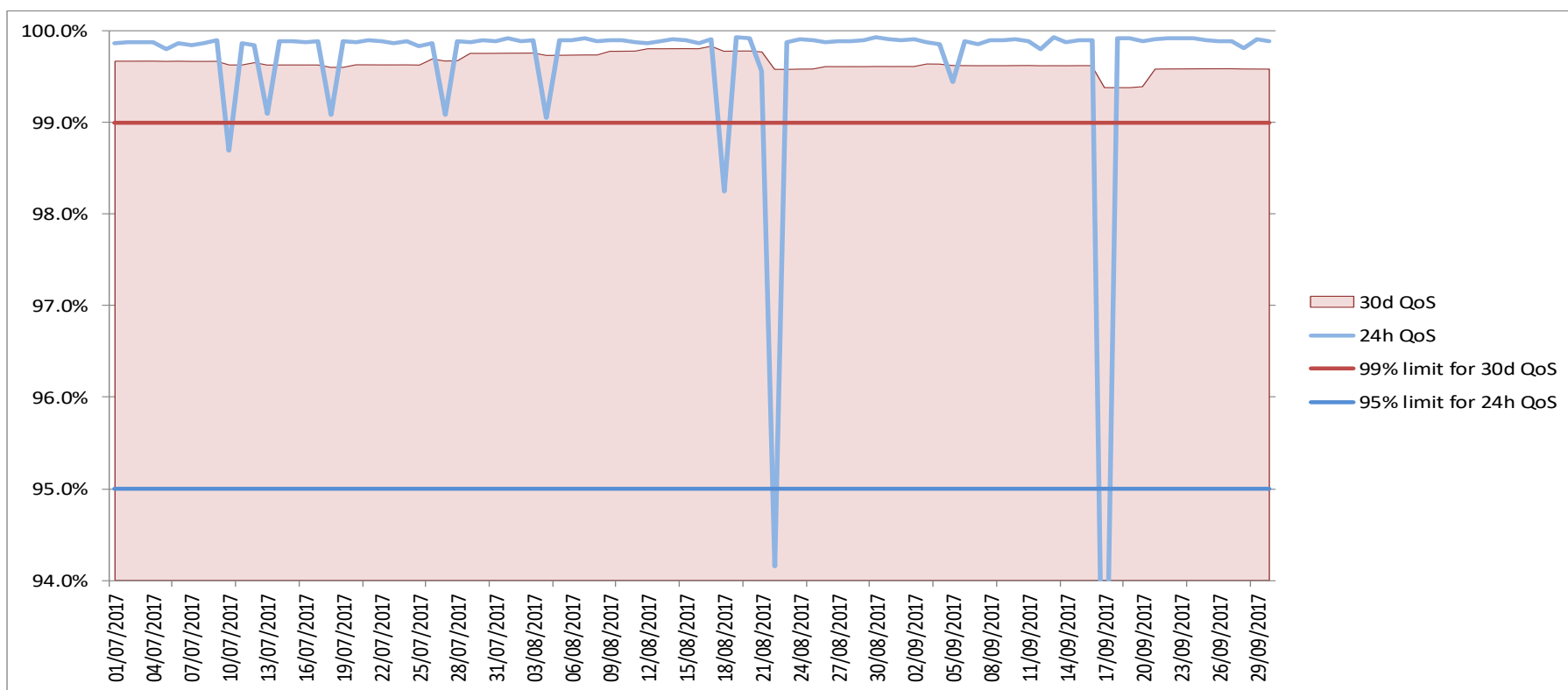
- **Relevant Incidents**
 - None
- **Maximum Continuous Downtime**
 - 30 minutes
- **Switchovers to BCF**
 - None
- **Failovers to DR**
 - None



- **Maritime Support Services**
 - Test environment being re-configured
- **ICT 24/7 Contractor**
 - Test environment being re-configured
- **Switchovers to BCF**
 - One (to test network infra at BCF site)
- **Failovers to DR**
 - One (to test network infra at DR site)

July-September 2017: 2 breaches in IMO requirements:

- 22-08: CSP issue on a Land Earth Station
- 17-09: ASP infrastructure issue



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%
Q4 2016	99.73%	99.88%
Q1 2017	99.81%	99.89%
Q2 2017	99.84%	99.78%
Q3 2017	99.93%	99.94%

Measure using message 11 System status



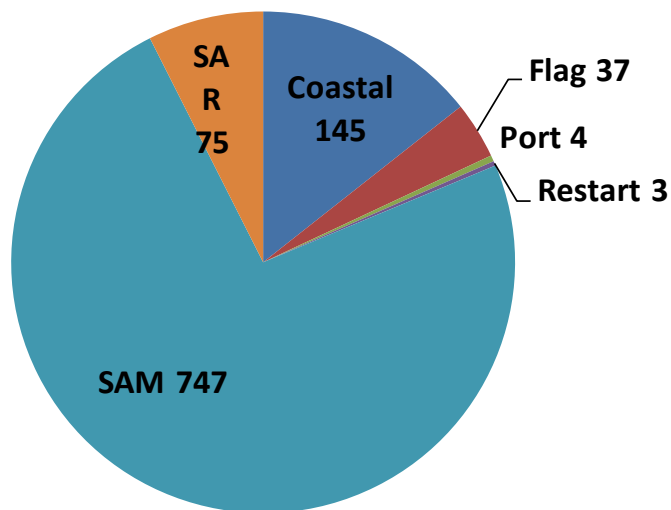
- **EU LRIT CDC: IMSO Audit nº8 (06-2016 to 06-2017):**
 - Sample data based on v2.4 sent to IMSO
 - One finding already reported in previous audit, corrected in v3.0
 - New sample data based on v3.0 sent, waiting feedback
- **LRIT IDE: IMSO Audit nº9 (10-2016 to 10-2017):**
 - Will start 15 October 2017

Positions requests coming:

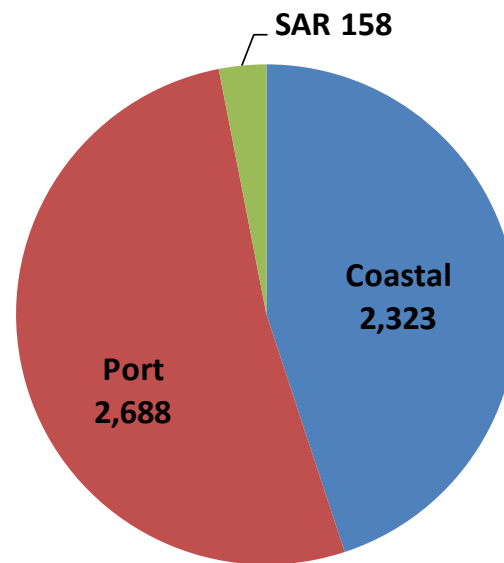
- From EU CDC (264 without SAM)

- From 56 DCs, through IDE (5169)

EU CDC



IDE





Use of the XML interface:

- 8 out of 34 countries have a XML link to the EU CDC

Use of the UWI:

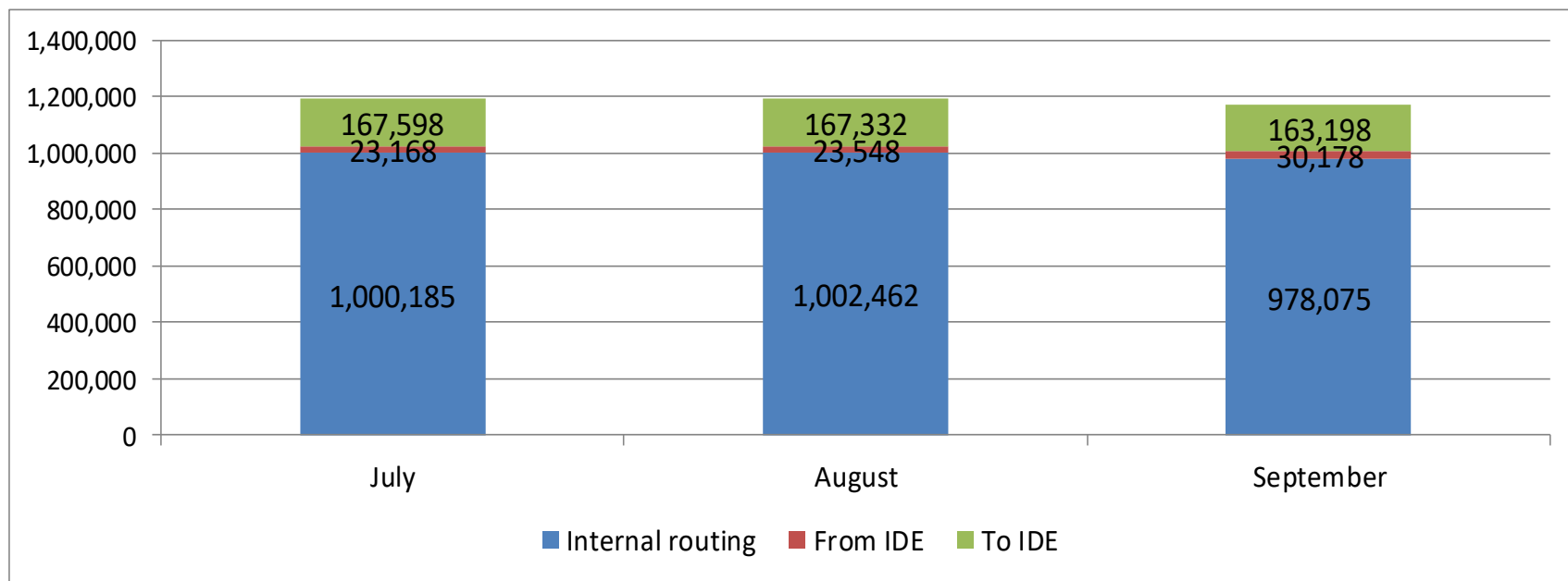
- 774 users, 10625 connections (1699 connections in April)

Mainly: IT, DE, NL, BE, SP

Out of 264 EU CDC positions requests:

- 30% done through User Web interface (UWI)
- 70% done through XML interface

Position reports coming from ASP (internal), from IDE, and delivered to IDE



LRIT Ship DB

Evolution of number of ships

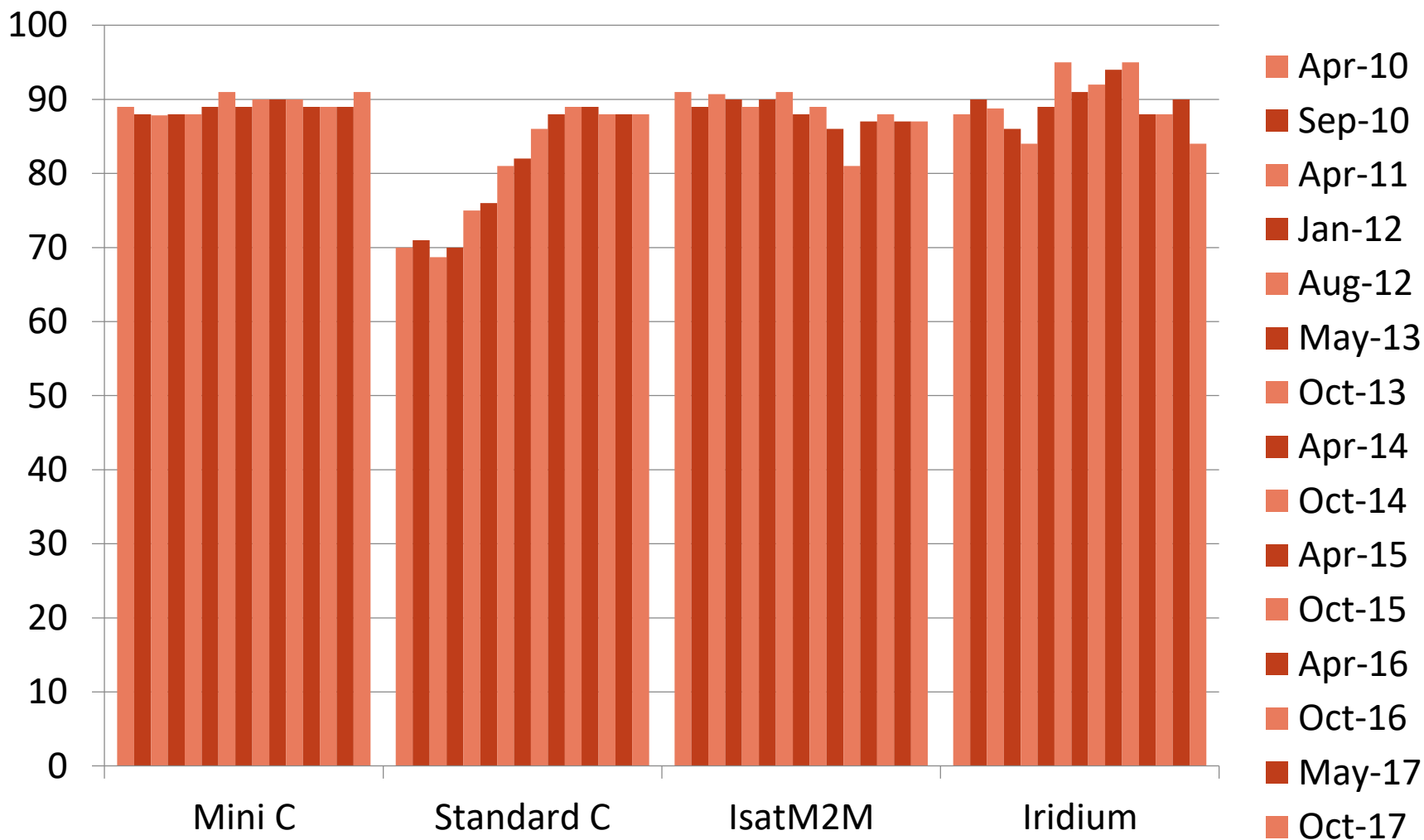


- **In Ship DB:** (green: increase, orange: decrease)

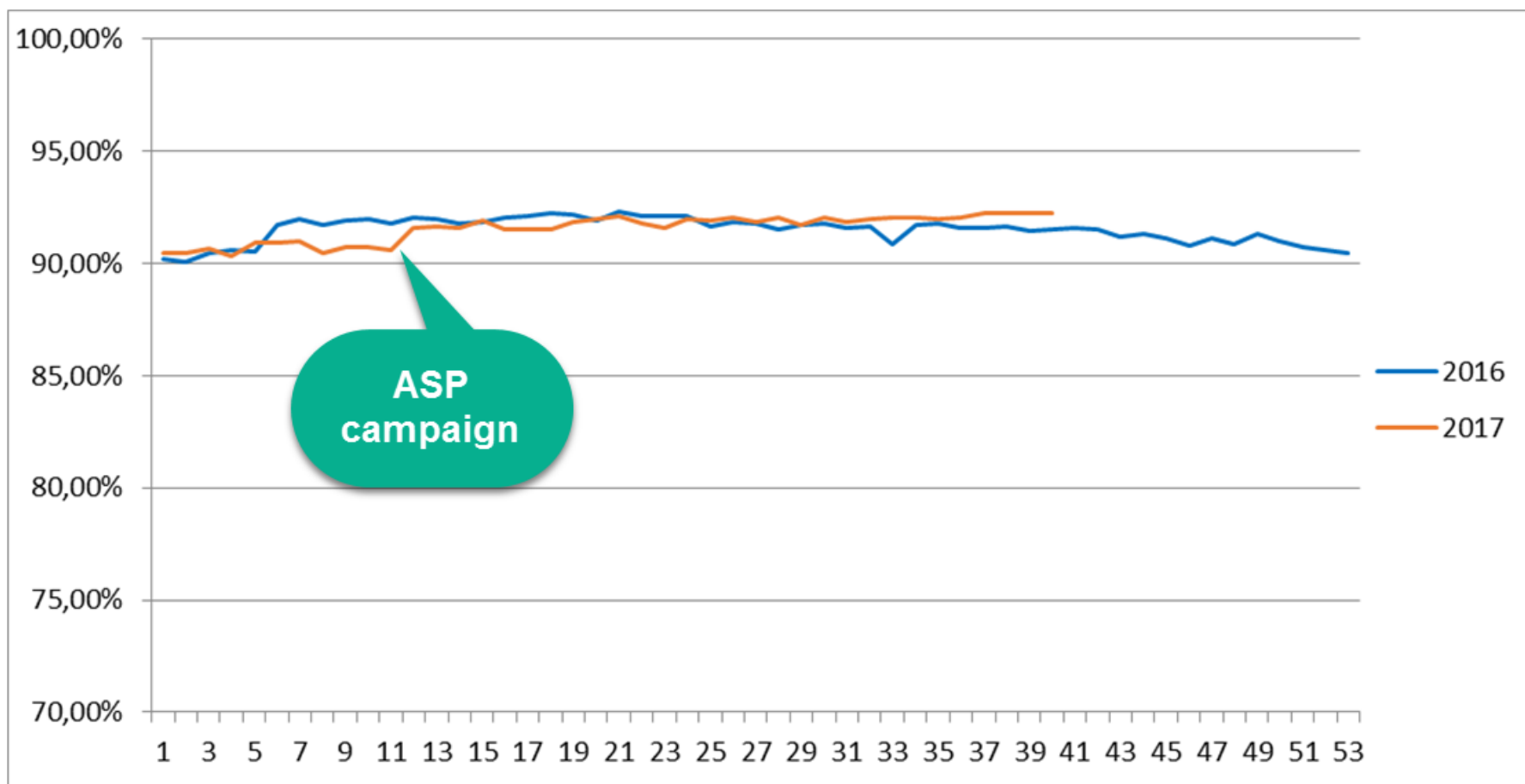
Jun-09	Apr-10	Apr-11	Aug-12	May-13	Apr-14	Apr-15	Oct-15	Apr-16	Oct-16	May-17	Oct-17
4860	7790	8907	8717	8615	8773	8930	8953	9053	9007	9062	8998

EU CDC: Evolution of % reporting terminals per communication network

- Reporting slightly better



- Slight increase along the year:



EU CDC: reporting per CG

 delegated to EMSA

 $\geq 90\%$

 $\geq 80\%$ and $< 90\%$

 $< 80\%$

Flag	Ship 10-2017	without stopped			with stopped	
		May-17	Oct-17		May-17	Oct-17
BEL	119	99.1	97.4		93.2	93.3
BGR	10	90.9	70.0		90.9	70.0
CUW	36	81.8	86.1		81.8	86.1
CYP	943	99.3	99.6		94.5	94.6
DEU	182	96.7	98.4		96.7	98.4
DNK	426	90.8	95.1		86.8	90.6
ESP	214	83.8	84.9		79.9	81.3
EST	18	100.0	94.4		100.0	94.4
FIN	107	94.5	98.1		94.5	95.3
FRA	226	97.3	100.0		80.6	80.1
GBR	533	82.1	83.2		81.3	82.7
GIB	218	86.3	90.7		86.0	89.9
GRC	626	98.9	97.7		96.6	95.4
HRV	40	100.0	95.0		100.0	95.0
IRL	38	91.9	100.0		91.9	100.0
ISL	2	100.0	100.0		100.0	100.0
ITA	607	98.9	98.4		90.7	92.4
LTU	31	96.4	93.5		96.4	93.5
LUX	151	95.2	96.9		77.4	81.5
LVA	20	94.1	100.0		94.1	95.0
MLT	2147	90.2	91.1		89.8	90.8
MNE	4	75.0	100.0		75.0	100.0
NLD	898	96.3	97.1		91.1	93.9
NOR	707	77.4	76.8		74.7	74.4
POL	23	100.0	100.0		91.3	91.3
PRT	359	90.1	90.2		89.8	90.0
ROU	2	50.0	50.0		50.0	50.0
SVN	1	N/A	N/A		0.0	0.0
SWE	83	95.4	97.6		94.3	96.4
VGB	4	50.0	75.0		50.0	75.0
Total	8775	91.9	92.6		88.6	89.7



- **19 CGs (+3) have a reporting rate > 90%**
- **13 CGs delegated fleet monitoring to EMSA**
- **AAS enabled for 1261 ships from 13 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)**



- Italy detected a ship which was not reporting properly
 - Italy contacted the LRIT DC managing the ship (contact available in EU LRIT CDC UWI, menu Search > DC contact details)
 - The LRIT DC (through its ASP) remotely configured another terminal on board to transmit LRIT (redundancy mandatory to be GMDSS compliant)
 - The ship reported again in the LRIT system.
- > efficient cooperation between LRIT users
- > issue with one of your ship : think about the redundancy



- **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