

eCertificates, a new phenomenon with a long history

Historical overview, Technological changes, Pilot project

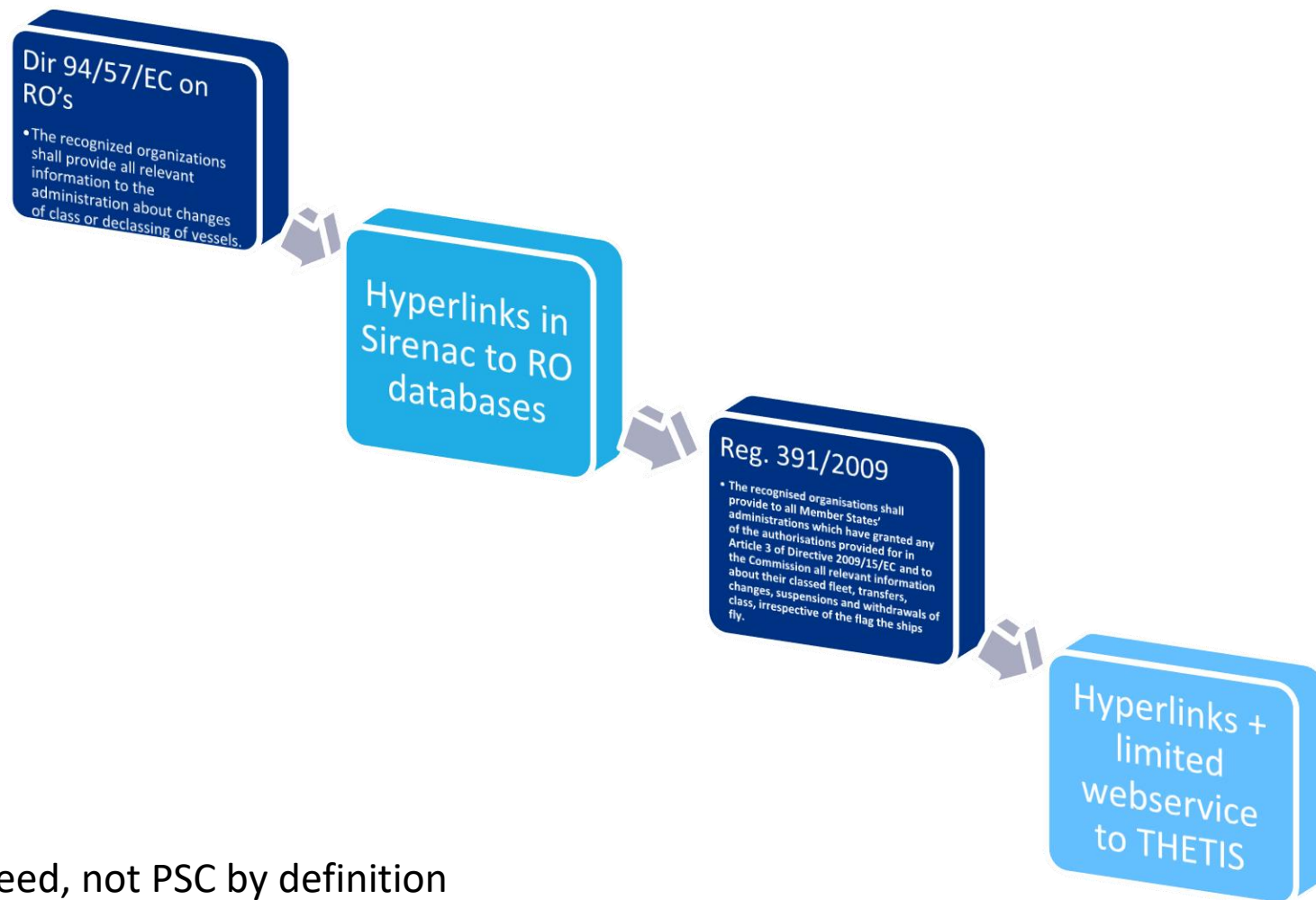
Frank Rohling / Sr. Project Officer

Unit B.3 - Environment and Capacity Building / Ship Inspection Support

Workshop on Capacity Building - Lisbon / 26 March 2019



Legal context



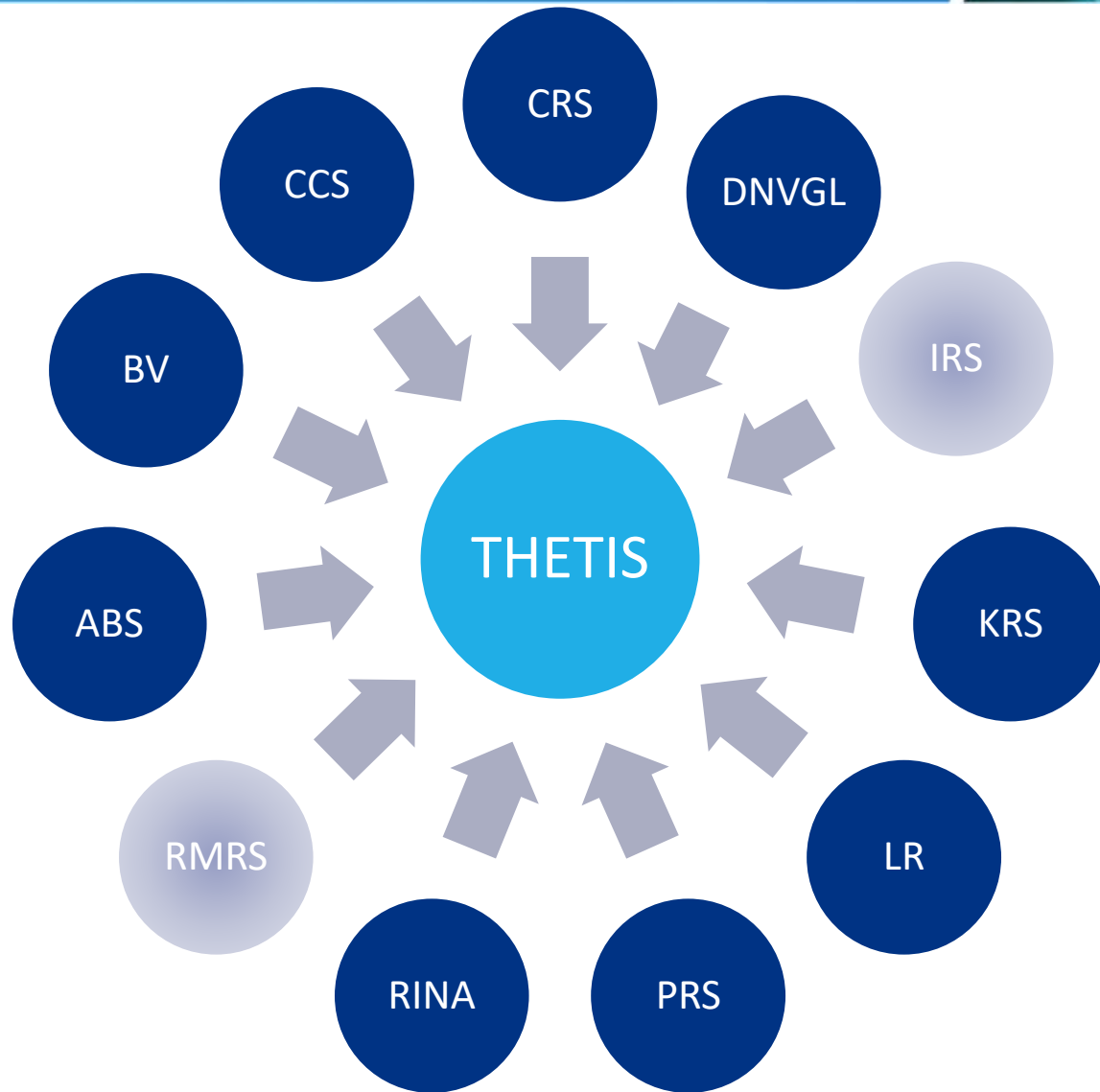
Indeed, not PSC by definition

In 2014 RO's expressed concerns regarding the IT Security of the existing formats

EMSA redeveloped the webservice with cooperation of the RO's

- Available since July 2015
- Includes also Statutory Certificate data
- Covered by 2-way SSL digital certificates for protection
- Since July 2018 in full operation

Currently connected



1. Rise of eCertificates

IMO FAL regulated

- Activity ongoing since 90's
- Ecert as method approved through FAL 5 Circ. 39 as amended
- Commercially interesting; all RO's started issuing eCert recently
- Verification and acceptance major obstacles

2. Interest of Flag States

Voluntary participation

- Danish Maritime Authority performed live test as Proof of Concept
- Test successful, but tech modification needed
- After delivery, any Flag State may use the solution
- For now, inbound to THETIS only



Verification and acceptance are the main concerns:

- During inspections no papers on board
- During inspections no internet connection
- Flag & Port State Inspectors & crew are not trained to handle the transition
- National law may not be clear regarding “original document”
- Recognition Agreements are not clear or updated to regulate eCertificates;
- Websites of issuer(s) not available or accessible
- GISIS not updated with regard Flag and RO relationship and
- Status in GISIS regarding eCertificates not updated

This creates uncertainty, frustration, risks for the ship and loss of time



The global change to eCertificates is complex

- THETIS will be further adapted to receive & display full eCert data as per FAL5 Crc 39
- **Awareness** is created through workshops, meetings and digitalisation projects
- At PSC **seminars** organised by EMSA and PMOU the issue is a standard topic
- PMOU working group “Task Force 6” is tasked with monitoring of THETIS developments, including the adaptations to eCertificates
- A **pilot project** will be organised to gauge time gains using the information centralised in THETIS



Pilot project “Gains through THETIS”

Running a pilot project is key to developing further services:

- Understand bottlenecks
 - *Mobile use ?*
 - *Way information is offered ?*
 - *General availability per RO ?*
 - *Legal constrains ?*
- Familiarise users on the job
 - *Reduction of frustration and therefore risks for the ship*
- Receive early feedback from users for further development
 - *Reduction of time spent on board*
 - *Practical ideas to enhance THETIS to further reduce burden*

Lessons learned may be used to support discussions in IMO, Paris MoU, Commission, with RO's etc

THETIS, menu where to find certificates

THETIS

My Sites ▾

Homepage **Ship**

Ship Portlet (5.12.2018 13:12:2018_17:44)

Back to Ship list Print

IMO	Name	Flag state/Registry	Netherlands	Expulsion Status
Ship type	General cargo/multipurpose	Ban Order Status	Ship status	Active
Priority	No priority	Priority reasons	Ship risk profile	LRS

Ship data EU Legislation Profile Messages Sampling Inspections Verification Report Outstanding deficiencies Call History Ship data history Bans Expulsions Casualties

Ship Particulars

IMO	Ship status	Active	Shipyard country	China
Name	Ship length (LBP)		Ship yard	OTHER - Other ()
Flag state/Registry	Contract date		Death date	
Ship type	Keel laying date	09/06/2008	Non propelled	
MMSI	Delivery date	24/12/2009	Main engine (kW)	4000
Call sign	Conversion date		Engines for propulsion	
Gross tonnage (GT)	Dead weight	7133	Non eligible for PSC	
			Emission abatement method	

Edit Delete

ISM company

IMO Number	Company name	Company performance	High
Country	City	Address	
Effect date			


Edit Clear

Ship Owner

PSC recordings in THETIS - certificates

Statutory Certificates

Statutory cert as recorded during last PSC inspection

	Name	Issuing Authority	Issuing Date	Expiry Date	Surveying Authority	Last Survey Date	Last Survey Place	At sea
Actions ▾	Tonnage	Germanischer Lloyd	16/11/2009					
Actions ▾	International Energy Efficiency Certificate	Germanischer Lloyd	19/04/2013					
Actions ▾	International Anti-Fouling System	Germanischer Lloyd	16/11/2009					
Actions ▾	International Ship Security	Bureau Veritas	12/05/2015	27/06/2020				
Actions ▾	Safety Management Certificate	Bureau Veritas	12/05/2015	27/06/2020				
Actions ▾	Document of Compliance	Bureau Veritas	10/02/2015	27/06/2020	Bureau Veritas	16/08/2016	Netherlands	
Actions ▾	Maritime Labour Certificate	Bureau Veritas	11/12/2013	22/08/2018	Bureau Veritas	16/08/2016	Netherlands	
Actions ▾	Document of Compliance Dangerous Goods	DNV GL AS	10/02/2015	23/12/2019				
Actions ▾	International Oil Pollution Prevention (IOPP)	DNV GL AS	15/12/2016	23/12/2021				
Actions ▾	International Sewage Pollution Prevention	DNV GL AS	10/02/2015	23/12/2019				
Actions ▾	Cargo Ship Safety	DNV GL AS	10/02/2015	23/12/2019	DNV GL AS	15/12/2016	Netherlands	
Actions ▾	Load Line	DNV GL AS	10/02/2015	23/12/2019	DNV GL AS	15/12/2016	Netherlands	
Actions ▾	International Air Pollution Prevention	DNV GL AS	10/02/2015	23/12/2019	DNV GL AS	18/12/2016	Netherlands	
Actions ▾	Continuous Synopsis Record	 Netherlands	18/01/2010					
Actions ▾	Bunker Oil Pollution Damage	 Netherlands	01/01/2017	01/01/2018				
Actions ▾	Minimum Safe Manning Document	 Netherlands	24/12/2014	23/12/2019				

Add statutory certificate

Section affected by the Pilot Project

Class Certificate details

Issuing Authority: DNV GL AS

Status: In class

Modification Date: 23/03/2019 18:23

Status Date: 24/12/2009

Ships

Certificates

Condition

Type	Certificate	Term	Survey Date	Next Survey	Issue Date	Expiry Date	Status	Status Reason	Status Date
CLASS	CLCE	fullterm	10/12/2018	23/12/2019	14/3/2018	23/12/2019	In class	Not applicable	24/12/2009
STATUTORY	Air Pollution Prevention Certificate		10/12/2018	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Ballast Water Management Certificate - Exchange Method		10/12/2018	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Cargo Ship Safety Certificate		10/12/2018	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Document of Compliance for the Carriage of Dangerous Goods		12/12/2014	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Garbage Pollution Prevention Statement of Compliance		12/12/2014	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	International Oil Pollution Prevention Certificate, Type A		10/12/2018	23/3/2020	14/3/2018	23/12/2021			
STATUTORY	Load Line Certificate		10/12/2018	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Sewage Pollution Prevention Certificate		12/12/2014	23/12/2019	14/3/2018	23/12/2019			
STATUTORY	Statement of Compliance for the Carriage of Solid Bulk Cargoes		12/12/2014	23/12/2019	14/3/2018	23/12/2019			

These are certificate details presented by the RO's

- NOT formal eCertificates
- Available to all users
- Updated daily
- Available in Mobile C

These are certificate details sent by the RO's

- **NOT** formal eCertificates
- Available to all users
- Updated daily
- Available in Mobile Client



Thank you for your time! Questions?

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