

Ship Reporting from a Shore-side Perspective Guideline 1159

- **ARM Committee 2018-2022 Work Plan:**
Develop Guideline on Ship Reporting from a Shore-based Perspective
- **Shore-based Stakeholders**
Coastal State Government Agencies and Others
 - **Immigration**
 - **Customs**
 - **Security**
 - **Health**
 - **Environmental**
 - **Vessel Traffic Service**
 - **Port Community Systems**
 - **Others**

Ship Reporting Task Group (SRTG)

Country	Member, Organization
Denmark	Strandberg, DMA
Canada	Morin, CCG
Germany	Schröder-Fürstenberg, BSH (Chair IHO NIPWG)
Korea	An, MMU Yung Ho, MEIPA Lee, MMU
Norway IMO Vessel Shore Reporting Service Coordinator	Ervik, NCA Hauge, NCA
Singapore IMO Vessel Shore Reporting Service Coordinator	Fu, IHPC Khoo, MPA Sim, MPA Pey, STEE
Sweden	Renz, SMA (Chair FAL EGDH) Sundklev, SMA (Chair IALA VTS Committee)
United States	Lewald, USCG (Vice-Chair ARM Committee)
EMSA	Ziolkowski, Sr Project Officer
IALA	Carson-Jackson, Nautical Institute (ENAV Committee) Jeon (Technical Operations Manager)
Ship Reporting Correspondence Group (SRCG)	Pot, (SRTG Lead, SRCG Secretary) Other SRCG Members

Guideline Development Progress

SRTG Meeting History

- **ARM8 through ARM13**
- **16 Intersessional Meetings**

Guideline History

- **Version 1.0**
 - ✓ **Approved by ARM12**
 - ✓ **Submitted to Council72**
- **Version 2.0 (Current)**
 - ✓ **Approved by ARM13**
 - ✓ **Approved by Council73**
- **Version 3.0 (Future)**
 - ✓ **Continue Work Intersessionally**
 - ✓ **Submit to ARM14 for Approval**

Example of Current Ship Reporting Requirements

Document	Distribution (copies)						Total
	LA	IM	CH	QI	AP	HM	
1. General Declaration	-	1	1	1	1	1	5
2. Cargo Declaration	-	-	1	1	1	1	4
3. Ship's Stores Declaration	-	-	1	1	1	-	3
4. Crew's Effects Declaration	-	1	1	-	-	-	2
5. Crew List	1	2	1	1	1	1	7
6. Passenger List	-	2	1	1	1	1	6
7. Maritime Declaration of Health	-	-	-	1	-	-	1
8. Last Port Clearance	-	-	-	-	-	1	1
9. Ship's particulars	1	-	-	-	-	1	2
10. Crew's passports	-	All	-	-	-	-	All
11. Chinese Tonnage Dues Certificate	-	-	1	-	-	-	1
12. Cargo Manifest	1	-	2	-	-	-	3
13. Bills of Lading	1	-	-	-	-	-	1
14. Stowage Plan	1	-	-	-	-	-	1

LA	Local Agent
IM	Immigration office
CH	Customs House
QI	Quarantine Inspection office
AP	Animal and Plant Inspection office
HM	Harbour Master

Guangzhou as of
14 November 2016
according to [IHS Markit](#)



Ship Reporting System Concepts

Intermediate Ship Reporting System

- **Easier for Shore-based Stakeholders to implement**
- **Does not require implementation of a Maritime Single Window System**
- **Complies with most IMO FAL and IMO MSC Resolutions & Conventions**
- **Enables automatic generation and transmission of ship reports**

Harmonized Fully Digital Ship Reporting System

- **Fully Automated System**
- **Requires implementation of a Maritime Single Window System**
- **Complies with all IMO FAL and IMO MSC Resolutions & Conventions**

Intermediate Ship Reporting System

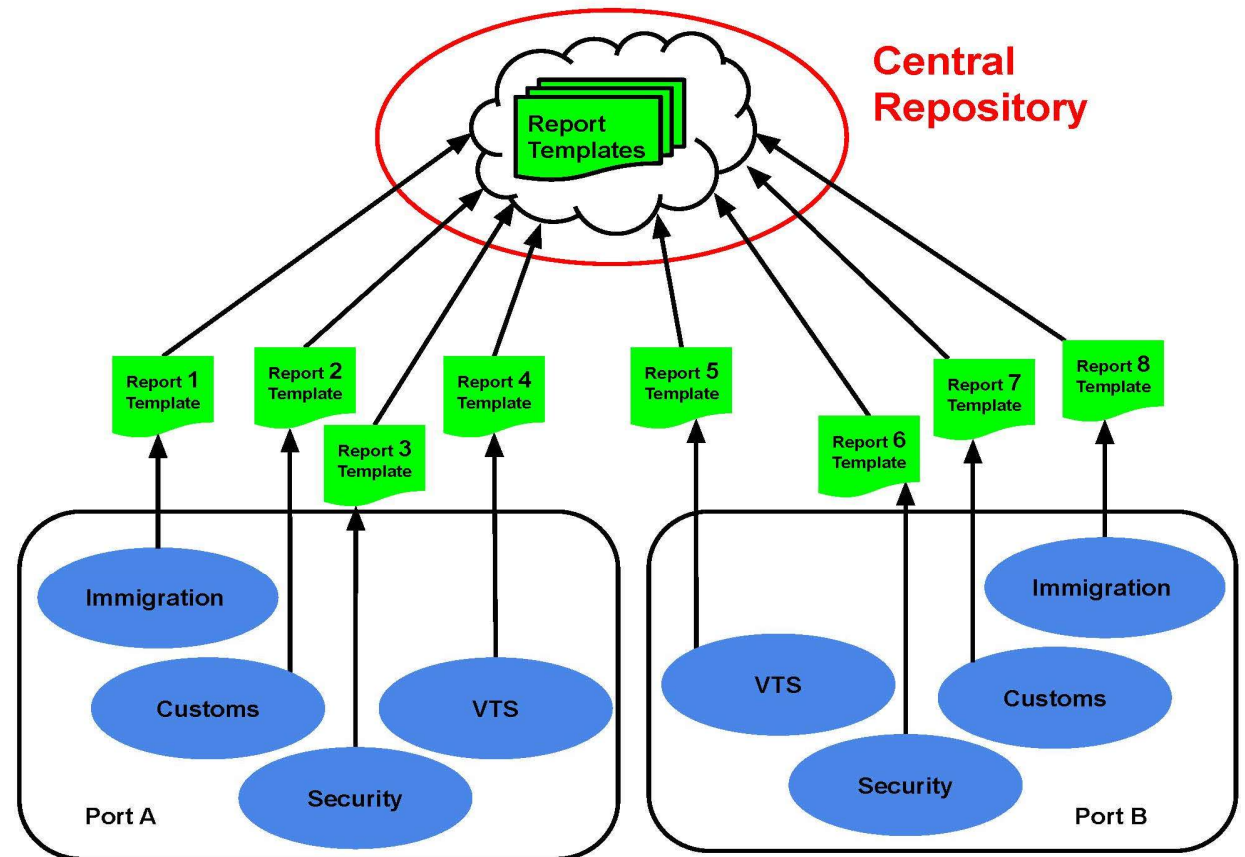
Coastal State Government Agencies

- **Continue to use their current Ship Reporting Processes and Procedures**
- **Publish Report Templates and Submission Requirements on Central Repository¹**
- **Harmonize data element definitions with the IMO Compendium²**

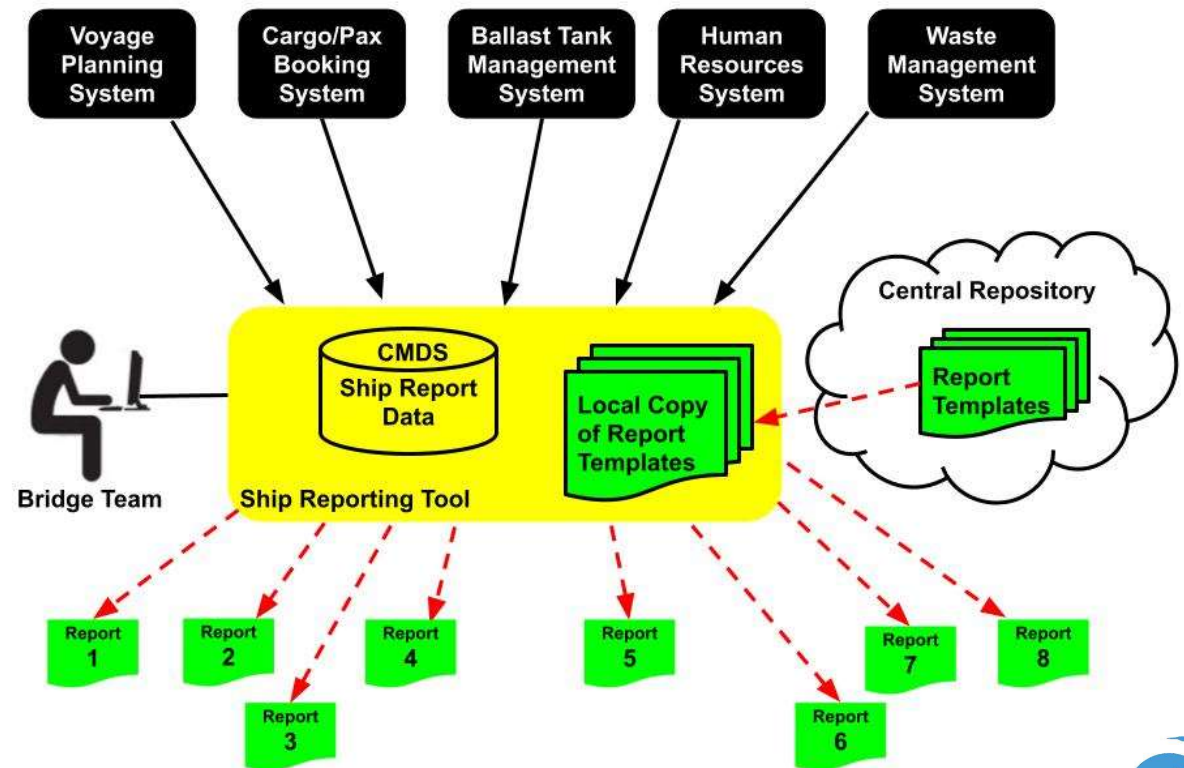
¹ The Central Repository has yet to be created

² This will likely require adding data elements to the IMO Compendium

Central Repository



ICT Ship Reporting Tool



IMO Compendium

IMO Compendium is a Reference Data Model mapped to other datasets:

- ✓ **World Customs Organization (WCO)**
- ✓ **United Nations Economic Commission for Europe (UNECE)**
- ✓ **Organization for Standardization (ISO)**
- ✓ **(Future) S-100 Product Specifications (IHO, IALA, IEC)**

FAL Expert Group on Data Harmonization (EGDH) maintains Compendium

IMO Compendium on Facilitation and Electronic Business

> Data set > Data Elements

Chg.	Data number	Data element	Definition	Correlation to IMO Standard Forms									Format	Code Lists	Business rules	
				Gen. Decl.	Cargo Decl.	Ships Stores Decl.	Crew's Effects Decl.	Crew List	Pass. List	Dang. Goods Man.	Sec. Report	Waste Del. Report				
	IMO0001	Agent City	The city address of the referenced agent at port.	8							16	5		an..35		
	IMO0002	Agent Contact Name	The agent's employee contact name.	8	10	12	9	18	19	16	5			an..70		BR 23
	IMO0003	Agent country code	A code representing the country address of the referenced agent at port.	8							16	5		a2	EDIFACT codes (3207) - ISO 3166-1 alpha-2 code	
	IMO0004	Agent country sub-division name	The country sub-division of the referenced agent at port.	8							16	5		an..35		
	IMO0006	Agent email	The email address for the referenced agent at port.	8							16	5		an..50		
	IMO0007	Agent identification number	The recognized identification number used by the ship's agent at the port of notification.	8	10	12	9	18	19	16	5			an..17		
	IMO0008	Agent landline number	The landline telephone number for the referenced agent at port.	8							16	5		an..50		
	IMO0009	Agent mobile number	The mobile number for the referenced agent at port.	8							16	5		an..50		
	IMO0010	Agent name	The name of the agent at the port of arrival.	8	10	12	9	18	19	16	5			an..35		
	IMO0011	Agent postcode	An alphanumerical code representing the postal area of the referenced agent at port.	8							16			an..256		
	IMO0012	Agent street and number/P.O. Box.	The postal delivery point such as street and number or post office box of the referenced agent at port.	8										an..256		
	IMO0013	Arrival/departure code	A code in the message to show whether the information is submitted for the ship arrival or departure.	Tick Box	Tick Box	Tick Box								a1	A or D	
	IMO0014	Authentication date	The date of authentication.	23	10	12	9	18	19	16.1	6.5	Page 2		an..35		

The IMO Compendium currently contains >300 Data Elements



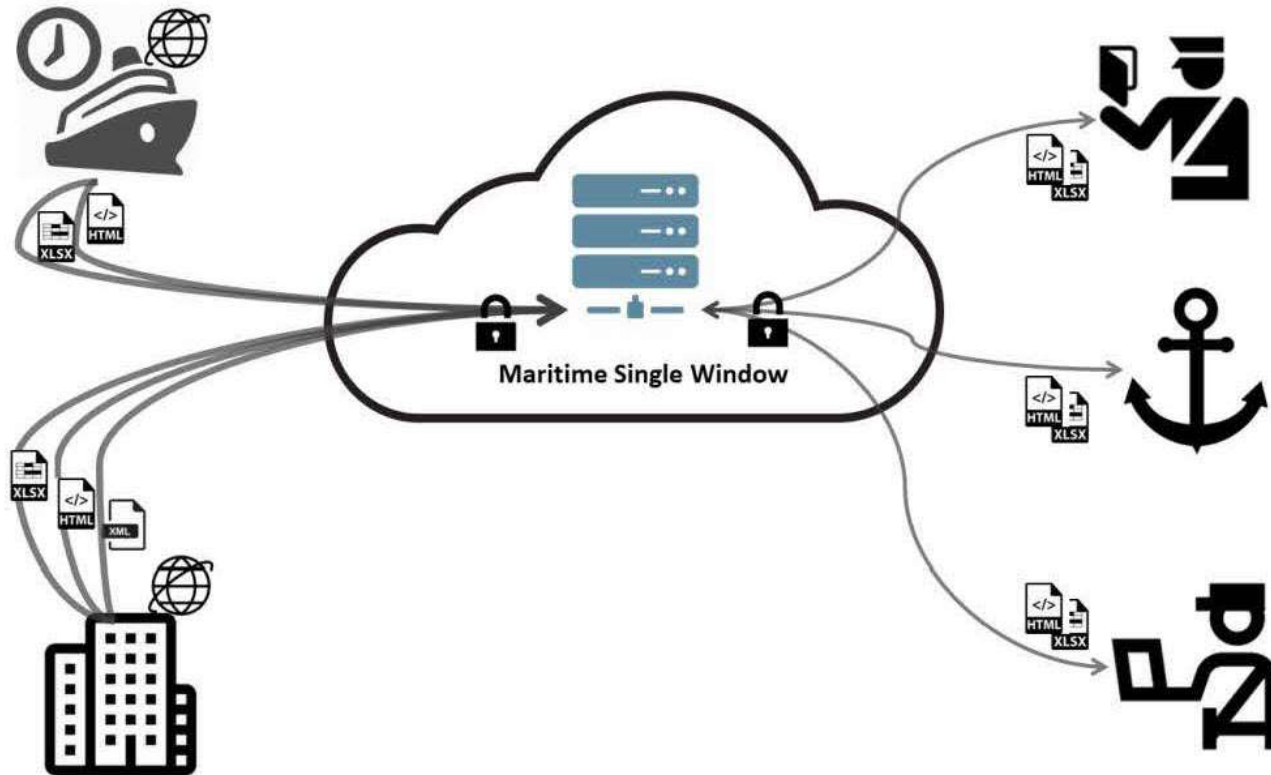
Harmonized Fully Digital Ship Reporting System

Coastal States

- Form a National Authority to collect ship reports
- Implement Maritime Single Window (MSW)
- Host Web Service for M2M Information exchange with ships (SOAP/REST)
- Automatically Convey Ship Report Information to Government Agencies
- Adopt Cyber Security Regime¹

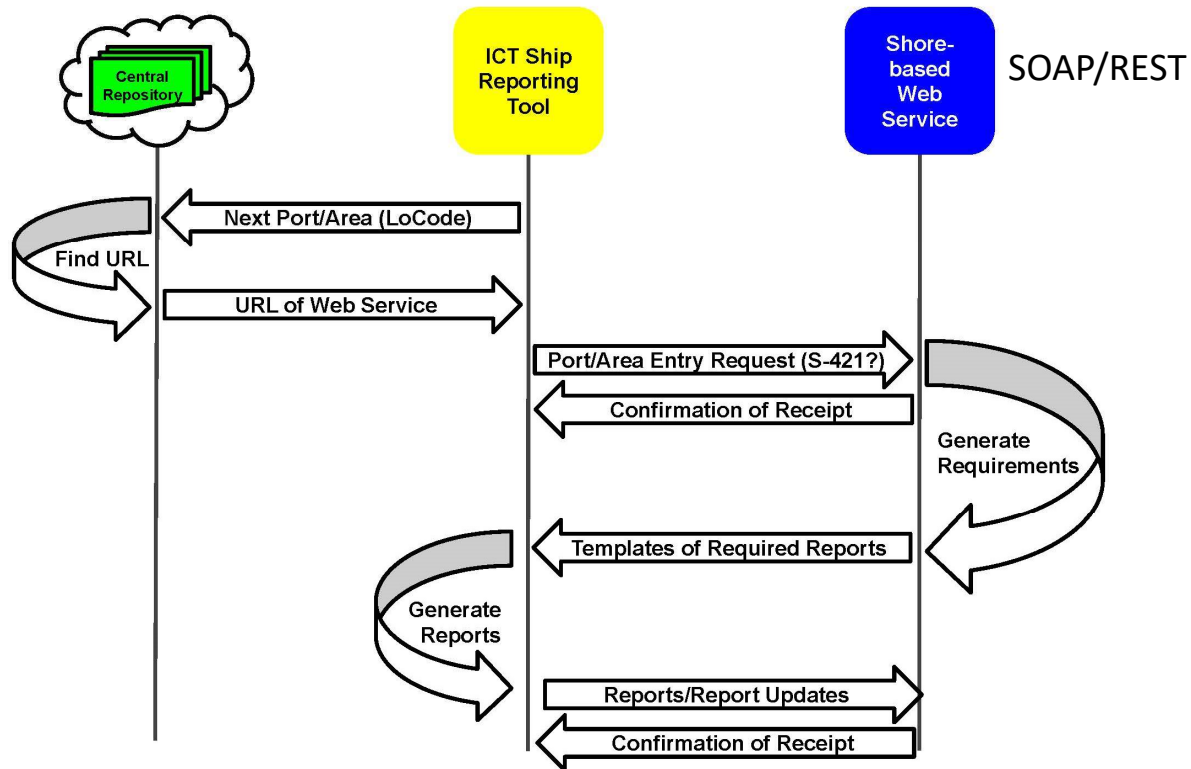
¹ A Cyber Security Regime has yet to be adopted by the Maritime Industry

Maritime Single Window



Digital Ship/Shore Information Exchange

(SOAP/REST and JSON/XML)



Minimal Cyber Security Requirements

- 1. Authentication of Ship Report Senders**
- 2. Shipping Company Control of Access to Reporting Information**

Next Steps

1. Proof of Concepts

- Intermediary System Concept
- Fully Digital Harmonized System Concept (achieved in SESAME II Project)

2. Seek Support from Industry Groups:



3. Approach IMO FAL about hosting the Central Repository

Questions?

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