International Taskforce



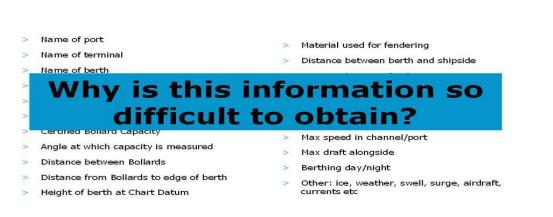
Port Call Optimization

Port Call Optimization

Request for data quality

For optimizing:

- Deadweight
- Speed / Emissions / Bunker savings
- Port stay
- Safety
- Berth utilization
- Hinterland connections
- Resources port services



Specific information required for Safe Port Memos

7

MAERSK LINE

Ports and shipping use their own standards

- Use of different standards and identifiers per port
- Shipping operates in a network of up to 1200 ports
- Ports can receive up to 55.000 different ships





Data not from data owner

Data owner:

- Is not aware of / does not want ownership
- Is not aware of consequences not sharing data

Data is collected through other sources:

- Agents / Surveyors
- AIS data, sensor data, or big data

If data is not from data owner:

- Data becomes corrupt
- Data is not binding



Less efficient communication

Less efficient means of communication, often one to one



No data quality assurance

Only looking at the data, there is no difference between ports with a good or bad reputation



Summary

- Not possible to cross check data
- Not possible to share data
- No alerts if data has changed
- No data quality indications
- No binding data
- Many parties working for the same ship use different data



Data quality is key for Port Call Optimization

Decision as good as the data

- There will never be one global solution or data base
- As a minimum we should have one global sustainable standard for interoperability between all types of shipping, terminals, ports and hinterland
- Based on global, existing, open industry standards for quick endorsement by industry
- Align with STM, SMAR T, SESAME; if different signals, industry doesn't move



Agenda – update 12/06/18

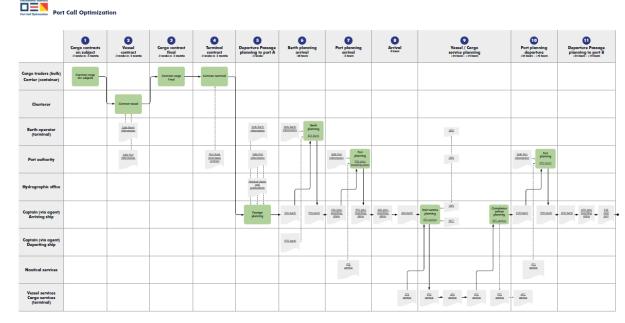
- 1) Agree on business process of port calls
- 2) Agree on minimum scope of data
- 3) Agree on functional definitions
- 4) Use of functional definitions by industry
- 5) Agree on data model and formats
- 6) Use of data model and formats by industry
- 7) Agree on quality ISO label
- 8) Use of ISO quality label by industry
- 9) Local roll out by industry
- 10) Global roll out by industry



1) Agree on business process of port calls

Done **Q2/14**

- Every port is dealing with the same Bimco contracts, IMO resolutions - business process based on that
- Important is to identify scope of data and data ownership
- Important to have a common understanding of the port call process
- Identify real time, business/public data, push/pull data, data governance Q3/18



2) Agree on minimum scope of data

Done Q3/15

- Based on business process, to be compliant no. 1 priority
- Other things are nice to have





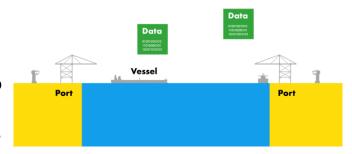




3) Agree on functional definitions

Done Q3/17

- Functional definitions are a must, no room for misinterpretation
- Based on existing industry standards
- Publication NP100 December 2019











4) Use of functional definitions by industry Done Q3/17

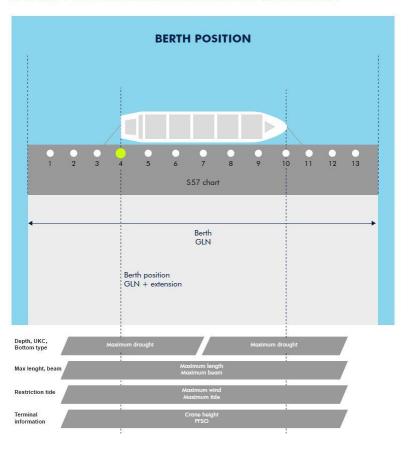
- Who's on board?
- Invite more industry partners next meeting Industry Input Workshop November 29 2018

Shipping and agents	Ports	Standards partners	Endorsers
CMA-CGM	Algeciras	UKHO	BIMCO
Inchcape	Busan	GS1	IALA
Maersk	Gothenburg		IHMA
MSC	Houston		IHO
Shell	Ningbo- Zhoushan		Lloyds List Intelligence
Vopak	Rotterdam		Marine Traffic
	Singapore		STM
	Tanger Med		UK P&I
			Xvela
			IAPH
			Nautical Institute
			Green Award
			Intercargo

5) Agree on data model and formats Q2/19

- For real time data compatibility is key, interfaces possible
- Industry needs sustainable standards
- Maintenance of data definitions is critical
- Organize 2nd technical committee Q4/18

3. BERTH POSITION MAXIMUM SIZES AND CONDITIONS



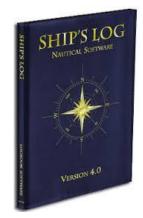
6) Use of data model and formats by industry

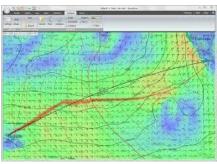
Q2/19

- ECDIS, Berth/Port planning, VTS
- Related: weather routing, AIS









7) Agree on ISO quality label Q3/18

- Functional definitions, data definitions and applications are not sufficient for data quality, security, compatibility
- Regulation takes too much time to implement or to regulate, market driven is a better option
- Customers can ask for ISO label for compliancy with BIMCO/IMO/JIT
- Developed by more than one class society for confidence of market
- Possible supported by IMO Blu code look alike
- Fine-tuning key parameters, incl. primary risks, minimum requirements
- Cross matching relevant parameters of existing ISO standards: if one of the standards changes, the whole scheme is updated automatically
- Development standard @ certification scheme
- Determine pilot assessments
- Review, feedback and adjustments





8) Use of ISO quality label by industry

XX/XX

• Proof of value to industry



9) Local roll out by industry

2018

Proof of value for port: safety, sustainability, economic

 Implementation of general information standards by ports

Basic data Berth and Berthing position ID Pilot Boarding Place – Berth sections ID

Static data	<u>Dynamic data</u>
Minimum depth	ATA/ATD Berth
Maximum sizes	ETA / ETD Berth
Maximum conditions	PTA / PTD Berth

10) Global roll out by industry XX/XX

- Industry standards endorsed by IMO/IHO
- Industry push for ISO label

- IMO/IHO HGDM meeting Q3 2018
- IMO-GIA-Low Carbon Shipping Q3/18
- Alignment of initiatives e.g. STM / SESAME / SMART
- IHO / UKHO / IHMA publication data reference model for master data
- IMO FAL / BIMCO / IHMA submission / S211 standard for event data









Frequently Asked Questions

- 1) Shipping is 5000 years old, why have standards never been used?
- 2) Roughly 80% of goods is transported by sea, why have supply chain standards never been used?



Good news

- There's nothing new
- Addressing existing contracts and resolutions, using existing definitions and technology, will already create dramatic improvements



