International Taskforce



Port Call Optimization

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International Taskforce



Port Call Optimization

Who is International Taskforce Port Call Optimization?

The Taskforce:

- Comprises subject matter experts with hands on expertise in shipping, ports and standards
- Works together with NGO's to make submissions to robust standardization bodies to formalize existing industry practices
- Provides input to Chainport, DCSA, IAPH Data project, IMO GIA low carbon shipping, Navelink, STM, WorldBank, WPCAP
- As a neutral body, consults but does not promote solution providers



Why did we start?

Initiator:

• Request from shipping to improve port call data quality and availability to IHMA

Followed by:

- IMO MEPC 323/74: call for action to improve quality and availability of data in ship-port interface
- World Bank / IAPH request to prioritize 10 data elements in ship-port interface



RESOLUTION MEPC.323(74) (adopted on 17 May 2019)

INVITATION TO MEMBER STATES TO ENCOURAGE VOLUNTARY COOPERATION BETWEEN THE PORT AND SHIPPING SECTORS TO CONTRIBUTE TO REDUCING GHG EMISSIONS FROM SHIPS

THE MARINE ENVIRONMENT PROTECTION COMMITTEE,

RECALLING Article 38(a) of the Convention on the International Maritime Organization concerning the functions of the Marine Environment Protection Committee conferred upon it by international conventions for the prevention and control of marine pollution from ships,

HAVING ADOPTED resolution MEPC.304(72) on the *Initial IMO Strategy on reduction of GHG emissions from ships* (hereinafter the Initial Strategy),

NOTING that the Initial Strategy calls for the encouragement of port developments and activities globally to facilitate reduction of GHG emissions from shipping, including provision of ship and shoreside/onshore power supply from renewable sources, infrastructure to support supply of alternative low-carbon and zero-carbon fuels, and to further optimize the logistic chain and its planning, including ports,



Why is port call data important?

- To improve safety, security and environmental performance to address financial concerns, and encourage innovation and efficiency (IMO)
- Most cost-efficient way to do it



What is the scope of port call data?

Focus: vessel movement from Pilot Boarding Place to Berth:

- Realizing safe and sustainable navigation: where is my Pilot Boarding Place and berth, when are they safe and available?
- Important for shipping, shippers, terminals and ports



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Related: vessel's cargo movement:

- Realizing sustainable end to end supply chain: where are my goods?
- Important for shippers



What are the data sets of port call data?

First understand complete scope of data, data owner ship and how actors work together, based on trade and port agnostic approach:

- IMO regulations
- BIMCO contracts
- Authorities

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Port Call Optimization

Appendix to Port Call Process Last update April 6 2020

International Taskforce



Port Call Optimization

What are the data sets of port call data?

- 1) Nautical data
- 2) Administrative data
- 3) Operational data

Sale of Goods contract (bulk). Carriage contract (container). Sale of Goods contract (bulk) Terminal contract Departure Passage planning to port A Berth planning arrival -tt han Port planning arrival disea Berth / Port antival Vessel / Cargo service planning Port planning departure Berth / Port departure Ships Address of the second Contract for hiring ships doubted and Cargo traders (bulk) Cantier (container) Charterer And Party Berth operator (terminol) 25 (a-2) Ind. (no.6 Enddown Sendland Sendrad Care . M Port authority Hydrographic office IID Jack Allianth Annalog Allianth (see 30) + Malada planation planation planation (control of the second (control of the Capitalin (via agent) Arritizing ship Capitain (via agent Departing ship Salat Statut Materia Nation press. Novitical services Vessel services Cargo services (terminal) LES MOMENT (h+ 21)
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Port Call Optimization Lower costs, cleaner environment, more reliability and safety for shipping, terminals and ports.

Why is data sharing by data owner important?

If data is not from data owner:

- Data becomes corrupt
- Data is not unique and often contradictory
- Data is not binding
- Parties take extra margins buffer and suffer



Why is this difficult to organize?

There may be different owners for one data element. E.g., for depths or planning:

- Deep water route: national authority
- Fair ways / harbor basins: local authority
- Berths: terminal



What is needed?

Data owners like to share data one to many:

- To minimize administrative burden
- To avoid errors
- To avoid delays in update
- To increase the value of data

This applies especially to data that changes frequently (e.g., updates of times, depths, etc.)



One to many data sharing requires global standardization

Many different parties per vessel per port call:

- Shipping operates in a network of up to 8.000 (1) different ports
- Each port has many different suppliers of cargo and ship services
- Ports can receive up to 98.000 (2) different ships
- Each ship can have many different cargo owners, especially containers ships with 24.000 TEU



Standardization requires investments

- Investments in IT: change data to fit format and standards, change management of related data bases
- Investments in people: culture change



Investments require scoping

Scoping to justify investments, based on basics first:

- To be compliant with IMO, BIMCO contracts, authorities
- To have impact on IMO objectives



Investments require robust standardization bodies

To ensure return on investments, only use standardization bodies for the road map which:

- Have commitment from shipping and ports: it is common sense and imperative that both use the same standardization bodies ensuring ships do not need converters for all ports and ports need only one converter for all ships
- Are robust: to avoid incompatibility between standards and systems, and ultimately futile investments into implementing standards that are not fit-for-purpose, not future proof or not viable for all stakeholders across the supply chain
- Ensure standards are being developed alongside existing standards and ensuring an overarching hierarchy



Investments require a road map per data set

For planning of investments and ensuring full interoperability for any API instance:

Non-technical standards:

- Data element definition; are we talking about same object
- Logical data model: what is the relation between data elements
- Require strict definitions but need little to no maintenance
- Technical standards:
 - API specifications: how can we push data from system to system
 - Technical performance requirements: latency, security, confidentiality, availability, integrity
 - Business performance requirements: accuracy, completeness and timeliness
 - Require less strict definitions but needs lot s of maintenance, as technology evolves

Both are commonly shared infrastructures; parties can develop initiatives on top of it which are compatible and ensure interoperability





Classification: Public

1) Nautical data – minimum scope

Data sets:

- a) General port data (e.g., contact info, tides, services)
- b) Maintained depths and/or soundings
- c) ID and location of terminals, berths and berth positions

Use case per data set:

- a) To be compliant with IMO Resolution A.862(20)
- b) To be compliant with IMO Resolution A.893(21)
- c) To be compliant with IMO Resolution A.893(21)

For all data elements:

- To demonstrate due diligence / absolute warranty re. safe port clause
- To demonstrate due diligence that Hydrographic Office and Port Authority have worked together to discharge their collective SOLAS responsibilities



1) Nautical data – example

Terminal	Port	Nautical chart
APMTR	APM WZ & APM OZ EUROPAHAVN ZOZ	APM Terminal Rotterdam
Bollard 101 – 178	8179 – 8203 Bollard 101-178	8178 - 8203

1) Nautical data – robust standardization body

Non-technical standards: IHO

- From the start working with national hydrographic offices to create standards for nautical charts
- Being robust party for both shipping and port sector; has 93 Member States

Technical standards: IHO together with Industry

- IHO: for ensuring nonprofit, neutral, trade agnostic and accepted standards
- Industry: for development, maintenance, testing and implementation



1) Nautical data – non-technical standards

IHO:

- ✓ Submission marine harbor infrastructure product specs
- ✓ Submission UKC based on PIANC/NP100/Industry
- Submission definition berth operator / user
- Submission definition heights of quay walls/ manifolds/mooring facilities



1) Nautical data – technical standards

IHO together with Industry:

- Development alongside existing IHO standards to exchange data between port, national hydrographic office and other stakeholders
- E.g., with Esri, Wärtsilä, Kongsberg, Saab



1) Nautical data – accomplishments

- Q1/14 Start ITPCO
- Q1/15 Economic value paper ITPCO
- Q1/15 Depth terminology for NP100
- Q2/16 Publication NP100 Edition 11 with depth terminology
- Q2/17 First edition Standards for nautical port information
- Q1/18 Publication Standards for nautical port information
- Q3/18 Business process validated by IMO GIA
- Q3/18 Business process appendix validated by IMO GIA
- Q2/19 Port Information Manual 1.0
- Q4/19 Submission IHO NIPWG
- Q2/20 Publication NP100 Edition 12 and Port Information Manual 2.0
- Q2/20 Start Marine Harbor Infrastructure IHO NIWPG
- Q4/20 Nautical data part of World Bank development
- Q4/20 Publication Port Information Manual 3.01
- Q4/20 Submission IHO UKC definitions with IHMA



1) Nautical data – to do

Q1/21 Port Information Guide 100% aligned with BLU Code Q1/21 Paper for use of AIS data on terminal/berth level for global coverage Q2/21 Maintained depths and soundings ready for one port as POC Q2/21 Terminals, berths and berth position data ready for one port as POC Q2/21 Data exchange POC ready between port GIS and Hydrographic Office QX/XX S-131 completed – focus first on data scope BLU Code QX/XX S-421 to include port passage plan



2) Administrative data – minimum scope

Data sets:

- a) IMO GISIS data base up to date for ID port facility
- b) IMO FAL Compendium implementation
- c) Planning of boarding and clearances

Use case per data set:

- a) To be compliant with IMO SOLAS Regulation XI-2/13.4
- b) To be compliant IMO FAL Convention to introduce electronic information exchange between ships and ports; and with regional, national and local authorities
- c) To be compliant with MLC, having impact on planning cargo operations, rest hours and shore leave



2) Administrative data – example

BSF552

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Canada Border Agence des services Services Agence des services Services Agence des services Compared and account of	DEPARTMENT U.S. Custom CREWS EFI	OF HOMELAND SECURITY OMB 1651-0020 s and Border Protection Exp. 07-31-2019 FECTS DECLARATION These Tos FR 4.7(a), 4.7(a) These	IMO CREW'S EFFECTS DECLARATIO (1907/AL Post 4)	N Per Notebor		
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2) Administrative data – robust standardization body

Non-technical standards:

IMO/WCO/UNECE/ISO

- From the start assigned to set standards for notifications and declarations
- Being robust party for both shipping and ports; IMO has 174 Member States

Technical standards:

Today many isolated developments not resulting in adoption of and standard or return of investments. The most promising and robust way forward is IMO together with ISO, Industry, Governments:

- IMO: ensuring nonprofit, neutral, trade agnostic and accepted standard for ports and shipping, not for development
- ISO: ensuring standards are being developed alongside existing standards
- Industry and governments: for development, maintenance, testing and implementation



2) Administrative data – non-technical standards

IMO FAL Compendium

- ✓ Submission for arrival/departure times
- Submission for definitions for boarding / clearances



2) Administrative data – technical standards

IMO together with ISO, Industry, Governments Development alongside existing IMO standards to exchange data between shipping and authorities

- Invitation by existing neutral bodies (taking out the commercial angel) to existing industry bodies (using momentum) to develop standards E.g.: EMSW, Digital Oceans, DCSA, IPCSA
- Same invitation to organize sustainable maintenance and common infrastructure



2) Administrative data – accomplishments

Q1/14 Start ITPCO

Q2/17 First edition Standards for nautical port information

- Q1/18 Publication Standards for nautical port information
- Q1/19 Submission IMO FAL arrival/departure times (FAL 43/7/1)

Q2/19 Port Information Manual 1.0

Q2/20 Publication NP100 Edition 12 and Port Information Manual 2.0

- Q4/20 Administrative data part of World Bank development
- Q4/20 Publication Port Information Manual 3.01
- Q4/20 Draft invite to develop technical standards



2) Administrative data – to do

M1/21 Submit invite to NGO's and Industry Q1/21 Develop definitions for boarding / clearances



3) Operational data – minimum scope

Data sets:

- a) Arrival/departure times at berth and pilot boarding place
- b) Starting/completion times of cargo and ship services
- c) Notifications of ISPS clearances for cargo and ship services, and for crew changes and crew visitors

Use case per data set:

- a) To be compliant with IMO Resolution A.893(21), MLC
- b) Same
- c) Same



3) Operational data – example

Shipper	Shipping					Terminal			Port		
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3) Operational data – robust standardization body

Non-technical standards: IMO Compendium

 Time stamps serve both administrative and operational data, it is common sense to develop them under the same body and build on existing work

Technical standards:

Today many isolated developments not resulting in adoption of and standard or return of investments. The most promising and robust way forward is IMO together with ISO and Industry:

- IMO: ensuring nonprofit, neutral, trade agnostic and accepted standard for ports and shipping, not for development
- ISO: ensuring standards are being developed alongside existing standards
- Industry: ensuring development, maintenance, testing and implementation
- UN/CEFACT: different standard but vessel planning should be compatible with cargo movement (edi3.0)
- S-100 standards for E-navigation: different standard but _{Class}អ្នកនូវត្រង់គ្នាភ្លាពទ should be compatible with ECDIS



3) Operational data – non-technical standards

IMO FAL Compendium

- ✓ Submission for arrival/departure times FAL 43/7/1
- ✓ Submission for including operational data FAL 44/18/2
- ✓ Submission for starting/completion times FAL EGDH 2/7
- Definitions for ISPS clearances



3) Operational data – technical standards

IMO together with ISO and Industry:

- Development alongside existing IMO standards to exchange data between shipping and ports
- Invitation by existing neutral bodies (taking out the commercial angel) to existing industry bodies (using momentum) to develop standards E.g.: HVCC/Port Xchange/Valencia/Navelink/Navis&Cargotec/Chainport / DCSA
- Same invitation to organize sustainable maintenance and common infrastructure



3) Operational data – accomplishments

Q1/14 Start ITPCO

Q1/15 Economic value paper ITPCO

Q1/17 BIC code part of supply chain standards

Q2/17 First edition Standards for nautical port information

Q1/18 Publication Standards for nautical port information

Q3/18 Business process validated by IMO GIA

Q3/18 Business process appendix validated by IMO GIA

Q2/19 Port Information Manual 1.0

Q3/19 IMO vessel number part of supply chain standards

Q1/20 Submission to include operational data (FAL 44/18/2)

Q1/20 Submission starting/completion times (EGDH 2/7)

Q2/20 Publication NP100 Edition 12 and Port Information Manual 2.0

Q3/20 Proposal to IPCDMC to align with IMO FAL

Q3/20 Publication of Just In Time Arrival Guide

Q4/20 Operational data part of World Bank development

Q4/20 Publication Port Information Manual 3.01

Q4/20 Endorsement of FAL 44/18/2 as urgent matter

Q4/20 Endorsement of EGDH 2/7

Q4/20 Endorsement by DCSA

Q4/20 Draft invite to develop technical standards



Classification: Public

3) Operational data - to do

- Q1/21 Definitions for ISPS clearances of ships/terminals
- Q1/21 Finalize invite and send to industry
- Q1/21 Submission to include IHO locations in IMO FAL
- Q1/21 Join IMO FAL CG for operational data
- Q1/21 Mapping the overlap between standardization bodies



Develop incentives for data owners

- IMO and Industry can promote together implementation of standards
- IMO by publication on their social media
- Industry by agreeing on certification of implementation
- Submission to IMO to realize incentives for first movers
- Industry to pull together group of first movers from shipping, ports and shippers willing to invest in global standards



Develop guidance for data owners

- Most shipping lines and ports have limited IT resources
- More calls from ports for a step-by-step guide to digitize
- ✓ Submission to IMO to develop guidance
- Develop guidance for nautical data
- > Develop guidance for administrative data
- Develop guidance for operational data
- Submission to update MS4 Port Support Service with IHMA/IAPH/BIMCO



Guidance for data owners - examples



Proposal to study together with IMO:

- 1. Can IMO together with their NGO's invite existing bodies to implement standards together, taking into consideration:
 - IMO cannot enforce the use of standards in national waters
 - IMO cannot identify standardization bodies check versus e.g., IHO
 - IMO can adopt performance standards through resolutions
 - IMO can make conventions (e.g., electronic reporting)
 - IMO can provide non mandatory instrumental guidance
 - IMO can refer to industry standards (A.911(22))
 - IMO can provide capacity building to implement standards
- 2. Can we copy existing resolutions for the implementation of nautical standards?
- 3. Can we copy existing common infrastructure: how to organize a sustainable business model, management and operation?



Develop Incentives and Guidance – accomplishments

- Q1/14 Start ITPCO
- Q1/15 Economic value paper ITPCO
- Q2/19 Port Information Manual 1.0
- Q2/20 Publication NP100 Edition 12 and Port Information Manual 2.0
- Q3/20 Publication of Just In Time Arrival Guide
- Q4/20 Part of data priority in World Bank development
- Q4/20 Publication Port Information Manual 3.01



Guidance & Incentives - to do

Q4/21 IMO Guidance – Aligning with Green Voyage IMO GIA / IAPH Q4/21 IMO Implementation paper in line with nautical data Q4/21 Implementation in existing port community systems



Summary

- Ship—port interface data is fundamental for safe and sustainable shipping
- Data quality and availability requires sharing by data owners
- Data owners like to share one to many
- Development plan:
 - 1) Agree on business process of port calls
 - 2) Agree on minimum scope of data
 - 3) Agree on robust standardization bodies
 - 4) Agree on non-technical standards
 - 5) Agree on technical standards
 - 6) Develop incentives for data owners
 - 7) Develop guidance for data owners
 - 8) Implementation
- This requires collaboration between IMO, NGO's, Industry and governmental stakeholders as the most promising and sustainable way forward



Progress report

Green: 100% completed Yellow: 50-100% completed Orange: 0-50% completed

1	Nautical data	Administrative data	Operational data
Agree on business process of port calls	Completed process and appendix Evaluated by IMO GIA WG	Completed and evaluated by IMO GIA Industry WG	Completed and evaluated by IMO GIA Industry WG
Agree on data scope	 General port data Maintained depths and/or soundings ID and location of terminals, berths and berth positions 	 IMO GISIS data base up to date IMO FAL Compendium implementation Planning of clearances 	 Arrival/departure times at berth and pilot boarding place Starting/completion times of services Notifications of ISPS clearances
Agree on robust standardisation body for non-technical standards	International Hydrographic Organization (IHO)	IMO Facilitation (FAL), with ISO, WCO, UNECE	IMO Facilitation (FAL) – with ISO, WCO, UNECE
Agree on robust standardisation body for technical standards	IHO with Industry	IMO with ISO and Industry	IMO with ISO and Industry
Agree on non-technical standards	Submission to IHO NIPWG Q4/20 Start IHO S-131 Q4/18	Submission FAL43 Endorsed Q4/18	Submission EGDH 2/7 Endorsed by EGDH, not yet by FAL Q4/20
Agree on technical standards	POC to exchange terminal, berth, berth position and berthing pocket Q2/20	Invite to develop technical standards from IMO NGO's Q1/20	Invite to develop technical standards from IMO NGO's Q1/20
Develop; incentives for data owners	SOLAS for member states, not yet for ports	IMO FAL for member states, however slow uptake, no benchmark	Call for action MEPC 323/74
Develop guidance for data owners	Port Information Manual Q4/20 Green Voyage manual?	IMO Compendium Green Voyage manual?	Just In Time Arrival Guide Port Information Manual Green Voyage manual?
Implementation	General port data Q1/17 Soundings Q2/20 Tidal Heights Q2/20 Terminal, Berth, Berth position Q2/20	European Maritime Single Window?	Port of Algeciras Port of Felixstowe Port of Houston Port of Rotterdam Port of Singapore Port of Valencia



Port Call data For now 2 separate eco systems due to technical and legal issues







FAQ

Current situation:

- Shipping is 5000 years old
- Roughly 80% of goods is transported by sea

Question:

- Why is the use of standards not more implemented?
- Why is shipping not connected to supply chain?

Answer:

- Old and fragmented industry, no big players able to push
- Also in supply chain no big players to push
- Shipping, ports and supply chain had limited collaboration



International Taskforce

Port Call Optimization

