National Shipper Advisory Committee

Digital Container Shipping Association
November 2023

Digital Container Shipping Association - Introduction

About DCSA

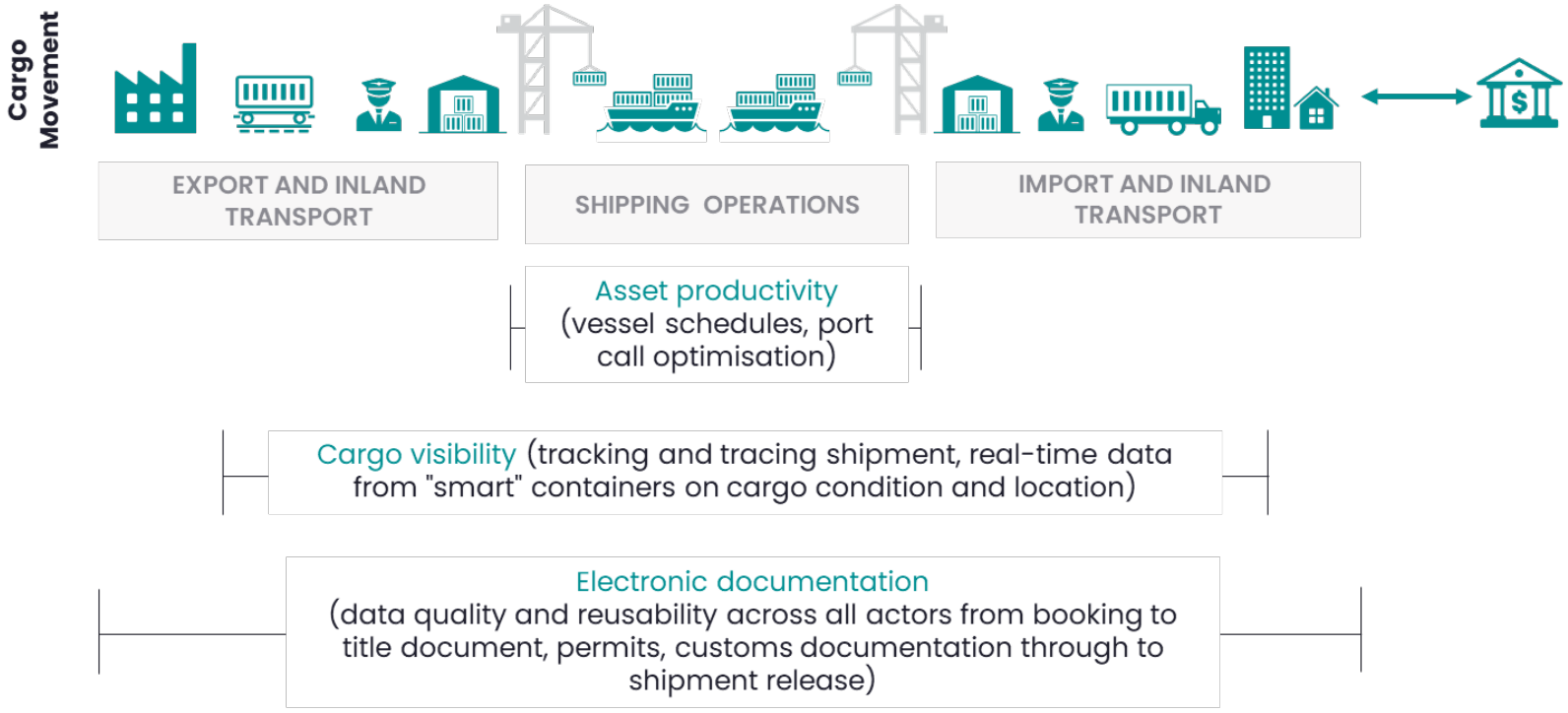
- ✓ Global, non-profit association
- ✓ Covering >70% of global container transport
- ✓ DCSA's mission is to shape the digital future of container shipping
- ✓ Technology agnostic & vendor neutral
- ✓ Open for contribution and free for all to use
- ✓ Standards are created by collaborating with all stakeholders of container shipping and based on established international standards

DCSA's Vision

At DCSA, we envisage a digitally interconnected container shipping industry in which the customers of ocean carriers have a choice of seamless, easy-to-use services to meet their business goals.

DCSA's work

Main standards



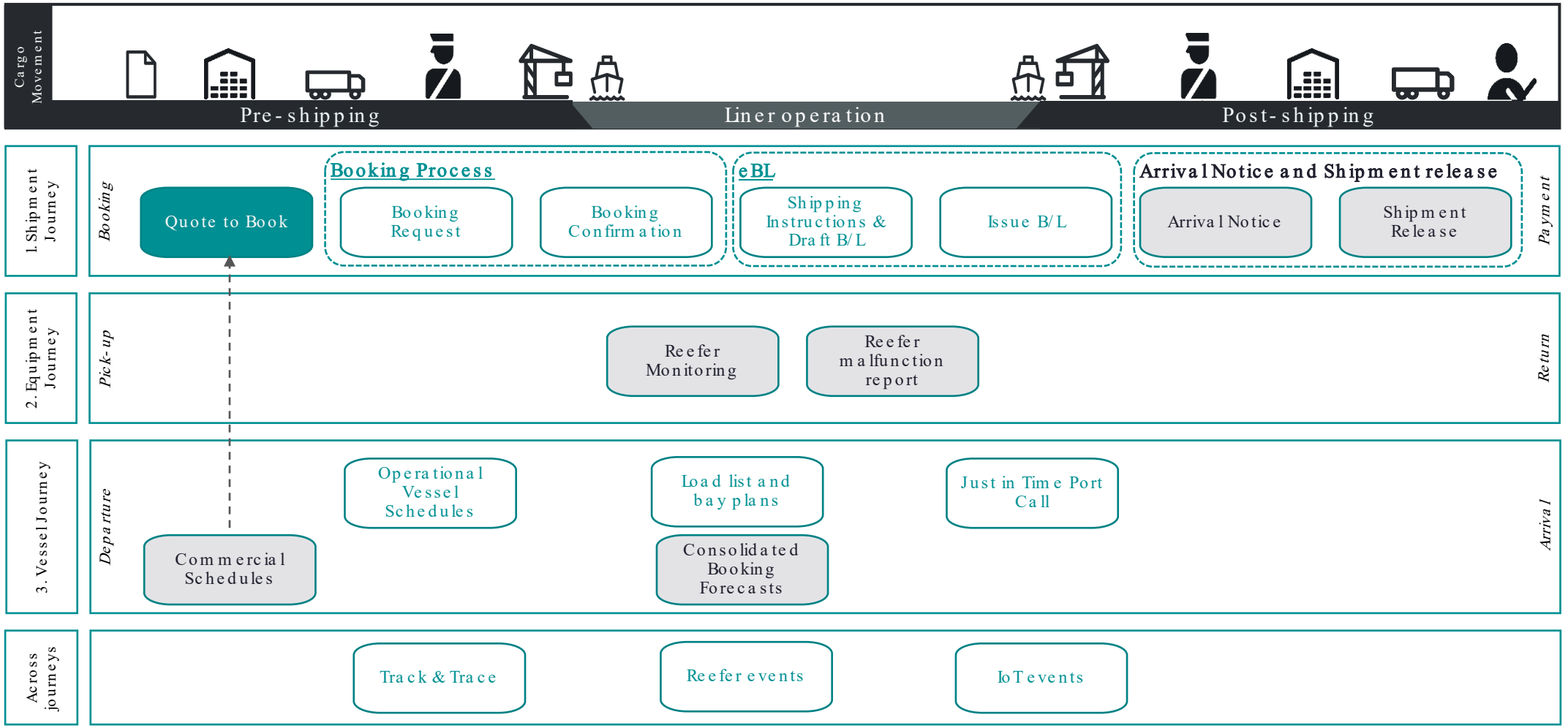
Foundational standards and support documentation

- Industry blueprint
- Information model
- API design principles
- Reference implementation
- Cyber security guide
- Accompanied by reading guides, glossary of terms and FAQs

All of the standards and supporting material are freely available on our website www.dcsa.org

DCSA Standards Overview

The industry Blueprint in the foundation for the creation of our standards



Vessel Schedules

Transport / Vessel Journey

Published standards

Operational Vessel Schedules 3.0
Beta published in 2022, final expected Q4 2023.

SCOPE:

- Vessel Schedules with operational detail exchange amongst Feeders, VSA, SCA, Terminals

Integration: Operational Partners

Load list and Bay plan Definitions
Published in 2020

SCOPE:

- Standards and timelines for communication of container load volumes and stowage details between VSA (vessel sharing agreement) partners, terminals and ports

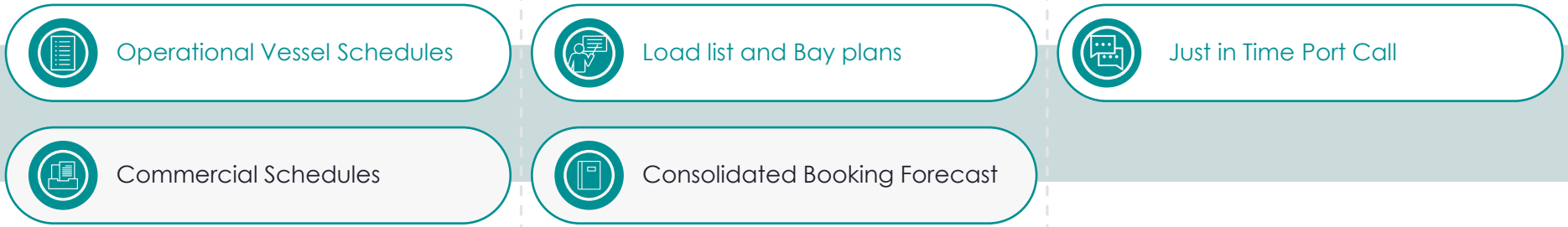
Integration: Operational Partners

Just in time Portcalls 1.2:
Published in 2022, final version expected in 2024

SCOPE:

- Port call data definitions, interface standards and messaging API (application programming interface) specifications for 100 event timestamps, which address the 6 main parts of a port call

Integration: Carriers-Customers



Future Releases

Commercial Schedules 1.0
Beta version expected to be released in Q4 2023

SCOPE:

- Point to Point routings – alternative routings to move cargo from A to B (pre-booking phase) considering ocean and hinterland legs
- Port Schedules – Scheduled vessels to Arrive and Depart in a specific port/terminal
- Service/Vessel Schedules – Lightweight OVS

Integration: Carriers-Customers

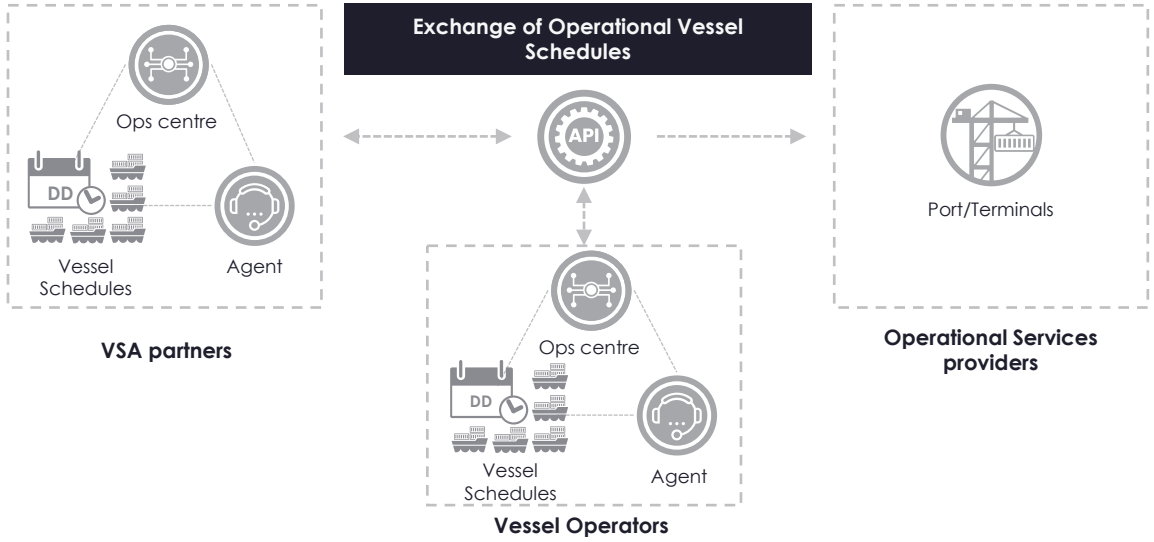
Commercial Schedules 1.0
Beta version expected to be released in Q4 2023

SCOPE:

- Contains all the forecasted loadings and discharges per port (full/empty and specials) for the entire region and is submitted from the partner to the vessel operator to allow port planning and capacity management of the vessel while in the specific region. Integration: Carriers-Customers

Integration: VSA/SCA Partners

Operational Vessel Schedules and Universal References



Universal references are an agreed coding system for operational identifiers on top of current service names & codes, and voyage numbers that will allow carriers and other stakeholders to reduce errors when referring to services and their voyages

Format for Universal Service Reference – 8 characters

SR	5 digits [0…9]	1 check character [A..Z]

Format Universal Voyage Reference – 5 characters to fit US requirements

Y Y	SS [0..9 & A..Z]	Bound [EWNSR}
Year	Sequence	Bound

Note: Q4 2023 ongoing workshops to discuss challenges with carriers and feeders, and to define how to move into actual implementation in 2024.

VSA Partner

Carrier service code: XYT12345
Universal Service Reference: **SR00000X**
Carrier Voyage Number: 202302E
Universal Voyage Number: **2302W**
Vessel Operator: EMC
Arrival/Departure Data
Other Ops. Data

Carrier service code: RTW892
Universal Service Reference: **SR00000X**
Carrier Voyage Number: 2023-02-RTM-SIG
Universal Voyage Number: **2302W**
Vessel Operator: CMA
Arrival/Departure Data
Other Ops. Data

Vessel Operator

Any party receiving schedules from a VSA partner or Vessel Operator will be able to know if they are sharing the same schedules

Schedules Standards Adoption

Status of standards implementation (member carriers)

	OVS (prerequisite for USR)	USR (prerequisite for UVR)
CMA CGM	3.0 Beta	Ongoing discussions to implement in 2024
MAERSK	3.0 Beta	
msc	Expected Q4 2023	
Hapag-Lloyd	Expected Q4 2023	
EVERGREEN	Expected Q1 2024	
ONE	Expected Q1 2024	
YANG MING	Expected Q1 2024	
ZIM	Expected Q4 2023	
HMM	TBD	

Status of standards implementation (non-member carriers & SP)

	OVS (prerequisite for USR)	USR (prerequisite for UVR)
Unifeeder	3.0 Beta	Ongoing discussions to implement in 2024
Xpress Feeder	3.0 Beta	
NAVIS	3.0 Beta	
Portbase	Q4 expected	
HVCC Hamburg	Can consume OVS 3.0 and testing with MSK, CMA	
Hutchison Rotterdam	Can consume OVS 3.0 and testing with CMA	
Gemalink Vietnam	Can consume OVS 3.0 and testing with CMA	

Note: USR and UVR will be added to applicable EDI messages, in agreement with SMDG for the segment code.

Coverage of NSAC recommendations

Coverage of DCSA data attributes

Out of the 39 Minimum required US Cargo Import/ Export Data set, the ones below are not part of DCSA Standards.

Minimum required U.S. Export Cargo Data Set	Covered by DCSA Standards	Remark
Last free port demurrage date	N	Not in DCSA scope
Last free equipment detention date	N	Not in DCSA scope

Minimum required U. S. Import Cargo Data Set	Covered by DCSA Standards	Remark
Container last free port demurrage date	N	Not in DCSA scope
Container last free equipment detention date	N	Not in DCSA scope

Coverage of DCSA data attributes

Minimum required US Cargo Export Data set, DCSA Booking, and T&T standards cover most of the data points

EXPORT

Minimum required U.S. Export Cargo Data Set	Covered by DCSA Standards	Remark
Empty pickup container yard location	Booking	DRL (Depot release location) part of Booking - Shipment location
Empty pickup date	Booking	ECP (Empty container pick-up date and time) part of Booking - Shipment cut off times
Loaded container location and earliest return date	Booking	EFC (Earliest full-container delivery date) part of Booking- shipment cut off times, Shipment location
Loaded container ingate return	T&T	Actual Gate In
Actual origin departure date	T&T	
Port of transshipment, when applicable	Booking, T&T	Part of Booking - Transport plan
Estimated arrival at port of transshipment	Booking, T&T	Part of Booking - Transport plan
Actual arrival at port of transshipment	T&T	
Actual departure from port of transshipment	T&T	
Additional unplanned transshipment information	Booking	Part of Booking – Transport plan, when the unplanned transshipment information is known before the cargo is shipped. Transshipment information is not included in the eBL
Estimated arrival at port of destination	Booking, T&T, OVS, JIT	
Actual arrival at port of destination	T&T, OVS, JIT	
Vessel berthing date at port of destination	Booking, T&T, OVS, JIT	
Container unloaded at port destination	T&T	
Container location on terminal	T&T	Covered by UNLOCODE, SMDG facility code, ISO 8366 and DCSA facility codes
Container pickup available date	T&T	

Coverage of DCSA data attributes

Minimum required US Cargo Import Data set, DCSA Booking, and T&T standards cover most of the data points

IMPORT

Minimum required U.S. Import Cargo Data Set	Covered by DCSA Standards	Remark
Loaded container origin terminal ingate date	T&T	LCO, FCO, EFC part of Booking- shipment cut off dates, location
Estimated origin departure date	Booking, T&T	
Actual origin departure date	T&T	
Port of transshipment, when applicable	Booking, T&T	Part of Booking - Transport plan
Estimated arrival at port of transshipment	Booking, T&T	Part of Booking - Transport plan
Actual arrival at port of transshipment	T&T	
Actual departure from port of transshipment	T&T	
Additional unplanned transshipment information	Booking	Part of Booking – Transport plan, when the unplanned transshipment information is known before the cargo is shipped. Transshipment information is not included in the eBL
Estimated arrival at port of destination	Booking, T&T, OVS, JIT	
Actual arrival at port of destination	T&T, OVS, JIT	
Vessel berthing date at port of destination	Booking, T&T, OVS, JIT	
Container unloaded at port destination Container location on terminal	T&T	Covered by UNLOCODE, SMDG facility code, ISO 8366 and DCSA facility codes
Container Hold details (when applicable)	T&T	
Carrier holds	T&T	
Terminal holds	T&T	
Customs holds	T&T	
Container pickup available date	T&T	
Laden container out gate – include trucker SCAC & chassis number	T&T	Trucker SCAC not incl
Empty ingate return date – include trucker SCAC & chassis number	T&T	Trucker SCAC not incl

Thank you

For more info and all our publications, please visit www.dcsa.org or contact dominique.willems@dcsa.org