



Digital Container Shipping Association (DCSA)

Industry Blueprint – Container Shipping 2.0 Process Catalogue

July 2020

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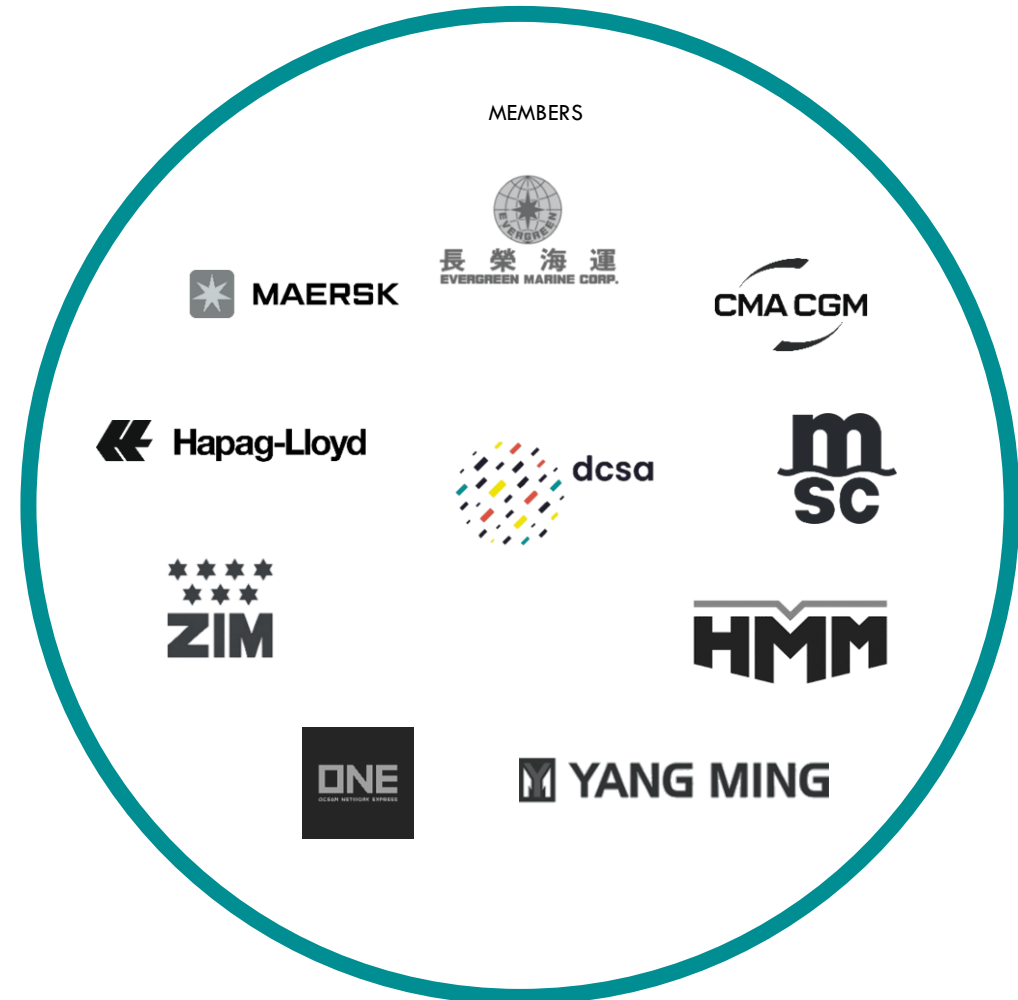
The DCSA Industry Blueprint 2.0 is one of the main initiatives and publications of the DCSA.

VISION

The vision of the DCSA is to pave the way for interoperability in the container shipping industry through digitization and standardization. It is the DCSA's mission to represent, lead and serve the container shipping industry for safer, more secure and efficient operations of container shipping companies. The DCSA Industry Blueprint 2.0 in particular aims at increasing the level of common standards and at designing a common language for processes, events and messages.

MEMBERS

The Digital Container Shipping Association has the following members: CMA-CGM, Evergreen, Hapag-Lloyd, HMM, Maersk, MSC, ONE, Yang Ming and ZIM.



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Process Catalogue

Industry Blueprint Processes				
Process Level 1	Process Level 2	Process Level 3	Process Description (Level 3)	Milestones
Booking-to-Return	1. Shipment Journey	1.1 Register booking request	The process covers the registration of a booking request, a check for missing and/or incorrect information, a check for booking compliance issues and the possible subsequent transmission of a booking acknowledgement to the customer.	Booking received
Booking-to-Return	1. Shipment Journey	1.2 Validate, plan and confirm booking request	The process covers the validation of the booking request against constraints and resolution of any related errors if necessary. Further, planning, including special cargo requirements, is executed and the booking request is confirmed.	Booking confirmed
Booking-to-Return	1. Shipment Journey	1.3 Prepare Bill of Lading (B/L)	The process covers the preparation of the Bill of Lading (B/L), which includes a check for missing and/or incorrect information, the creation of a draft Bill of Lading (B/L), which is sent to the customer for confirmation and a registration of the confirmation.	Shipping instructions received Bill of Lading approved
Booking-to-Return	1. Shipment Journey	1.4 Release Bill of Lading (B/L)	The process covers the release of the Bill of Lading (B/L), which includes a confirmation of equipment load status, the readiness of the Bill of Lading, the issuance type required and a payment clearance.	Export payment cleared Bill of Lading finalized Bill of Lading released
Booking-to-Return	1. Shipment Journey	1.5 Issue arrival notice	The process covers the generation and issuing of an arrival notice.	Arrival notice created Arrival notice issued
Booking-to-Return	1. Shipment Journey	1.6 Manage cargo release	The process defines the creation of the cargo release notification, which signifies the shipment has been released (from import container yard) and is ready for pick-up. This will happen if, the Bill of Lading (B/L) is collected or the Sea Waybill is valid, the customs and terminal approval is received and the payment status is confirmed. If one cannot be confirmed the cargo release notification cannot be issued.	Import payment cleared Bill of Lading collected Cargo released
Booking-to-Return	1. Shipment Journey	1.7 Manage shipment closing	The process confirms the return of all equipment and the payment status of receivables in order to close the shipment.	Empty equipment assigned to shipment returned Payment cleared
Booking-to-Return	2. Equipment Journey	2.1 Nominate depot and empty equipment	The process covers the allocation of equipment for the booking based on container type/size requirements. A release order is generated and sent to applicable stakeholder (e.g. depot).	Empty equipment/depot allocated
Booking-to-Return	2. Equipment Journey	2.2 Submit Verified Gross Mass	The process details the submission of the verified gross mass (VGM) of a container by the carrier to required stakeholders (terminal). The information is sent by the Shipper to the carrier and contains information about the Verified Gross Mass (Weight) of the container along with a signature (can be electronic) identifying the person responsible for the declared weight. The process also includes a check whether all information is included and a preparation of a consolidated VGM for submission.	VGM submitted

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Booking-to-Return	2. Equipment Journey	2.3 Assign empty drop-off	The process details the activities completed to assign the empty drop-off location where equipment is to be returned to and subsequent notification of drop-off location to depot.	Empty drop-off assigned
Booking-to-Return	2. Equipment Journey	2.4 Return empty equipment	The process details the return of an empty container and potentially a subsequent update of equipment grade.	Empty equipment returned
Booking-to-Return	2. Equipment Journey	2.5 Prepare carrier haulage work order	The process details the creation and issuance of a work order to a haulage vendor based on information in the booking and route plan, subsequently the work order acknowledgement from the vendor is registered by the carrier.	Work order issued Empty equipment picked up from depot Empty equipment arrived at stuffing location Equipment stuffing complete Full equipment departure from stuffing location Full equipment gate in at export terminal Full equipment loaded onto vessel Full equipment discharged from vessel Gate out full equipment from import terminal Full equipment at stripping location Full equipment stripped at stripping location Empty equipment picked up from stripping location Conditional milestones: Equipment loaded onto barge Equipment discharged from barge Equipment loaded on feeder Equipment discharged from feeder Equipment loaded on rail transport Equipment discharged from rail transport
Booking-to-Return	2. Equipment Journey	2.6 Monitor equipment	The process covers the generation of equipment status data and the reporting of this data.	-
Booking-to-Return	3. Vessel Journey	3.1 Prepare vessel load list	The process outlines the activities to produce the load list for a particular vessel, i.e. the containers to be loaded on a specific vessel during a specific port call, and the distribution of load list to relevant stakeholders.	-

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Booking-to-Return	3. Vessel Journey	3.2 Manage stowage plan and instructions	The process outlines how the vessel stowage plan is created and transmitted to the terminal using the final Bayplan from the previous port call and the consolidated load lists for the relevant port call. Load and discharge instructions are also generated and transmitted to the terminal. Following execution, the terminal transmits load/discharge confirmation and the actual Bayplan to the carrier.	Vessel load/discharge complete Vessel operations complete Vessel departed Vessel arrived Vessel berthed
Booking-to-Return	3. Vessel Journey	3.3 Manage vessel reconciliation	The process defines the reconciliation activities following vessel departure in preparation for vessel arrival at the next port. This includes cross-checking of actual load and dangerous goods stowage against final stowage plan and the generation of a load confirmation.	-
Booking-to-Return	3. Vessel Journey	3.4 Submit customs manifest	The process covers the generation of customs manifest, the submission of this to authorities and reception of either an approval or rejection of this manifest.	Manifest submitted Manifest approved Vessel export documentation cleared Vessel departed Vessel import documentation cleared Vessel arrived
Booking-to-Return	3. Vessel Journey	3.5 Maintain and communicate arrival and departure times	The process outlines the ongoing updates to vessel schedules reflecting any delays or cancelled port calls.	-
Booking-to-Return	3. Vessel Journey	3.6 Long term schedule	An updated schedule, based on the final Proforma Schedule, including specific vessel & voyage number, to be published at least 12 weeks ahead of commencement of the individual voyage. It incorporates planned dry-dockings, vessel lay bys, phase-in/out of vessels, etc.	-
Booking-to-Return	3. Vessel Journey	3.7 Coastal Schedule	The updated schedule, based on the Long Term Schedule, that will be issued prior to arrival at the first port of call in another region. Includes estimated port/terminal issues and any intended corrective actions to bring the schedule back to Long Term Schedule, i.e. port omissions, speeding up, etc. An updated schedule will normally be published if a vessel deviates more than 12 hours from LTS or from the latest published RS/CS. RS/CS can be published daily/weekly.	-
Booking-to-Return	4. Exception Handling	4.1 Manage carrier booking change	The process covers the handling of any required changes to a booking, either as a result of a request directly from the customer or due to internal processing resulting in necessary changes. The handling of a change will have different outcomes depending on the characteristics of the change.	-

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Booking-to-Return	4. Exception Handling	4.2 Issue manifest corrector	The process defines how a manifest corrector is issued to authorities as a result of changes to B/L following submission deadline (and the submission of the customs manifest).	-
Booking-to-Return	4. Exception Handling	4.3 Cancel existing work order	<i>Not defined in Industry Blueprint 1.0</i> The description of the process around cancelling and already issued work order.	-
Booking-to-Return	4. Exception Handling	4.4 Manage seal(s) removed	<i>Not defined in Industry Blueprint 1.0</i> The description of the processes surrounding the removal of seals by the carrier, incl. communication with stakeholders etc.	-
Booking-to-Return	4. Exception Handling	4.5 Manage vessel reconciliation deviations	The process covers the investigation of deviations discovered as part of the vessel reconciliation and the initiation of corrections of said deviation.	-
Booking-to-Return	4. Exception Handling	4.6 Manage asset malfunctions	<i>Not defined in Industry Blueprint 1.0</i> The process covers the handling of malfunctions of active equipment. This would include possible unstuffing / stuffing if necessary.	-
Booking-to-Return	4. Exception Handling	4.7 Manage cargo surveys	<i>Not defined in Industry Blueprint 1.0</i> The process of ordering and coordinating cargo surveys.	-
Booking-to-Return	4. Exception Handling	4.8 Manage re-use allocation	<i>Not defined in Industry Blueprint 1.0</i> The process of allocating a piece of equipment to re-use instead of allocation to a depot return.	-



THANK YOU