Container Information Flow
Parties

1. SH  Shipper  
2. FF  Freight forwarder  
3. AG  Agent/logistics center  
4. DP  Depot  
5. IC  Inland Carrier  
6. CF  CFS  
7. TM  Terminal  
8. SL  Shipping Lines  
9. PA  Port Authority  
10. CU  Customs  

Commercial
Operational
Vessel
Official
Customs
SMDG maintained messages

- **Commercial messages (ITIGG)**
  - Booking - Shipper, Forwarder → Agent

- **Operational messages (SMDG)**
  - Agent, Depot, CFS, Inland transport, terminal

- **Vessel related messages (SMDG)**
  - Vessel schedule & planning, Load/Discharge, Performance, Invoice

- **Authorities messages (Local)**
  - Customs, Port Authority, Dangerous Cargo
Container Information Flow

Operational messages

- Shipper
- Forwarder
- Customs
- Port Authority
- VSA Partner
- Shipping Cy.
- Vessel Operator
- Terminal
- Inland carrier
- Truck, Rail, Barge
- Depot
- CFS
- Logistic center

Operational messages:
Container Information Flow

Authors messages

SMDG
Container Information Flow

- Export cycle
- Import cycle
Export Cycle

- Vessel schedule information
- Booking of cargo
- Transport of cargo
- Empty container to CFS
- Full container to Terminal
- Vessel planning
- Full container from Terminal
1. Vessel operator sends the vessel information IFTSAI

Call & Schedule information must be available in target system (e.g. terminal) before booking announcement can start
Vessel Operator - VSA Partner

1. Booking of DG container on the vessel  IFTMBF
2. Advice intended loadings on the vessel  COPRAR
3. Booking confirmation of DG container  IFTMBC
4. After sailing – actual container s  BAPLIE
Booking of cargo

- Shipper
- Forwarder
- Customs
- Port Authority
- Vessel Operator
- Agent/Logistics Center
- Terminal
- CFS
- Inland carrier
- Depot
1. Shipper books with Freight Forwarder
   IFTMBP/F

2. Forwarder books with Agent
   IFTMBP/F

3. Agent sends confirmation to Forwarder.
   IFTMBC

4. Forwarder sends confirmation to Shipper
   IFTMBC
5. Shipper sends shipping instructions to Forwarder
   
6. Forwarder sends shipping instructions to Agent
   
7. Agent sends instruction contract to Forwarder
   
8. Forwarder sends contract status to Shipper
   
9. Forwarder sends dangerous goods notification to Agent

- Shipper sends shipping instructions to Forwarder
- Forwarder sends shipping instructions to Agent
- Agent sends instruction contract to Forwarder
- Forwarder sends contract status to Shipper
- Forwarder sends dangerous goods notification to Agent
Transport of cargo

- Forwarder arranges transport to CFS (Merchant H.)
- Agent arranges transport to CFS (Carrier H.)

**IFTMIN**

→ Inland carrier brings goods from Shipper to CFS
Empty container to CFS

- Shipper
- Forwarder
- Customs
- Port Authority
- Agent/Logistics Center
- Terminal
- Vessel Operator
- CFS
- Inland carrier
- Depot
1. Liner agent announces release to Depot  COPARN
2. Agent arranges transport to/from Depot  IFTMIN
3. Inland carrier pre advises pick-up to Depot  COPINO
   → Inland carrier retrieves empty container from Depot
4. Depot reports Gate Out move to Agent  CODECO
Empty container to CFS - cont.

5. Liner agent announces stuffing to CFS  COSTOR

5. Liner agent announces arrival to CFS  COPARN

6. Inland carrier pre advises arrival to CFS  COPINO
   → Inland carrier delivers empty container to CFS

7. CFS reports Gate In move to Agent  CODECO

8. A stock report is send to Agent/Log.Center  COEDOR
Full container to Terminal

- Shipper
- Forwarder
- Customs
- CFS
- Inland carrier
- Logistics Center
- Terminal
- Port Authority
- Depot
- Vessel operator
1. CFS reports Pack details to Agent
   COSTCO

2. Agent releases full container from CFS.
   COREOR

3. Agent arranges transport to Terminal
   IFTMIN
   ➔ Inland carrier gets container from CFS/Shipper

4. CFS reports gate out move to Agent
   CODECO
5. Liner agent announces arrival to Terminal COPARN

6. Inland carrier pre advises arrival to Terminal COPINO → Inland carrier delivers full container to Terminal

7. Terminal reports Gate In move to Agent CODECO

8. Terminal reports Gate In move to Inland Carrier CODECO
Vessel planning information
1. Vessel operator sends the vessel information  
  IFTSAI

2. Previous port/Central Planner sends the bayplan  
  BAPLIE

3. Central Planner sends the stowage instructions  
  MOVINS
Full container from terminal

- Shipper
- Forwarder
- Customs
- Port Authority
- Vessel Operator
- Terminal
- Logistics Center
- Inland carrier
- CFS
- Depot

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1. A Loading Order is sent by the Agent COPRAR
2. The Loading Report is sent to the Agent COARRI
3. A new bayplan is sent to the Next Port BAPLIE

→ Vessel leaves the terminal

4. A vessel departure is sent to Tonnage Centre VESDEP
5. also the Terminal Performance Report TPFREP
6. Terminal sends Invoice to the Agent or Shipping Line INVOIC
Import Cycle

- Vessel schedule information
- Full container to terminal (discharge vessel)
- Full container from terminal (gate out)
1. Vessel operator sends the vessel information IFTSAI

2. Previous port / sends the bayplan BAPLIE
1. A Discharge Order is sent by the Agent COPRAR
   - Vessel arrives at the terminal
2. The Discharge Report is sent to the Agent COARRI
Full container from terminal

1. A Release Order is sent by the Agent \(\text{COREOR}\)
2. Customs releases the container \(\text{Proprietary}\)
3. Inland carrier pre advises arrival to Terminal \(\text{COPINO}\)
   \(\rightarrow\) Inland carrier picks up full container from Terminal
4. The Gate Out Report is sent to the Agent \(\text{CODECO}\)
5. A Load Report is sent to the Barge Cy \(\text{CODECO}\)
Empty container to depot

1. Agent (LC) releases empty container at CFS. COPARN

2. Agent (LC) announces empty container to depot. COPARN

3. Agent arranges transport to Depot IFTMIN

→ Inland carrier gets container from unloading to depot

4. Depot reports gate in move to Agent CODECO
UN/EDIFACT messages for the Maritime industry

- Developed and Promoted by SMDG
- Multi modal messages
  - www.smdg.org
  - www.unece.org/etrades/download/downindex.htm
Ship planning Message Design Group
User group for Shipping Lines and Container Terminals
Since 1987
Website: www.smdg.org
Message user guides
Meeting 2x a year
35-60 participants from all over the world
Mayor shipping lines and container terminals
One day for subgroups
Two days for plenary meeting
SMDG - seaside messages

- IFTSAI - Call information message
- BAPLIE - Bayplan message
- MOVINS - Stowage instruction message
- VESDEP - Vessel departure message
- TPFREP – Terminal performance report
- INVOIC – Invoice message
SMDG - seaside messages

- **COPRAR** - Container pre-arrival/pre-departure message
  - Discharging or loading list

- **COARRI** - Container Arrival/departure message
  - Discharging or loading report
SMDG - seaside messages

- TANSTA - Tank Status Message
- BERMAN - Draft Berth Management Message
SMDG - landside messages

- COPARN - Container pre-announcement and empty release notice
- COREOR - Container release order
- CODECO - Container delivery confirmation (In & Out ‘Gate’ Moves)
COPINO - Container pick-up notification (Delivery & Pick-Up)

COEDOR - Container stock report
SMDG - landside messages

- COSTOR - Container stuffing/stripping order
- COSTCO - Container stuffing/stripping confirmation
- COHAOR - Container handling order
SMDG - various messages

- DESTIM - Container repair estimate