



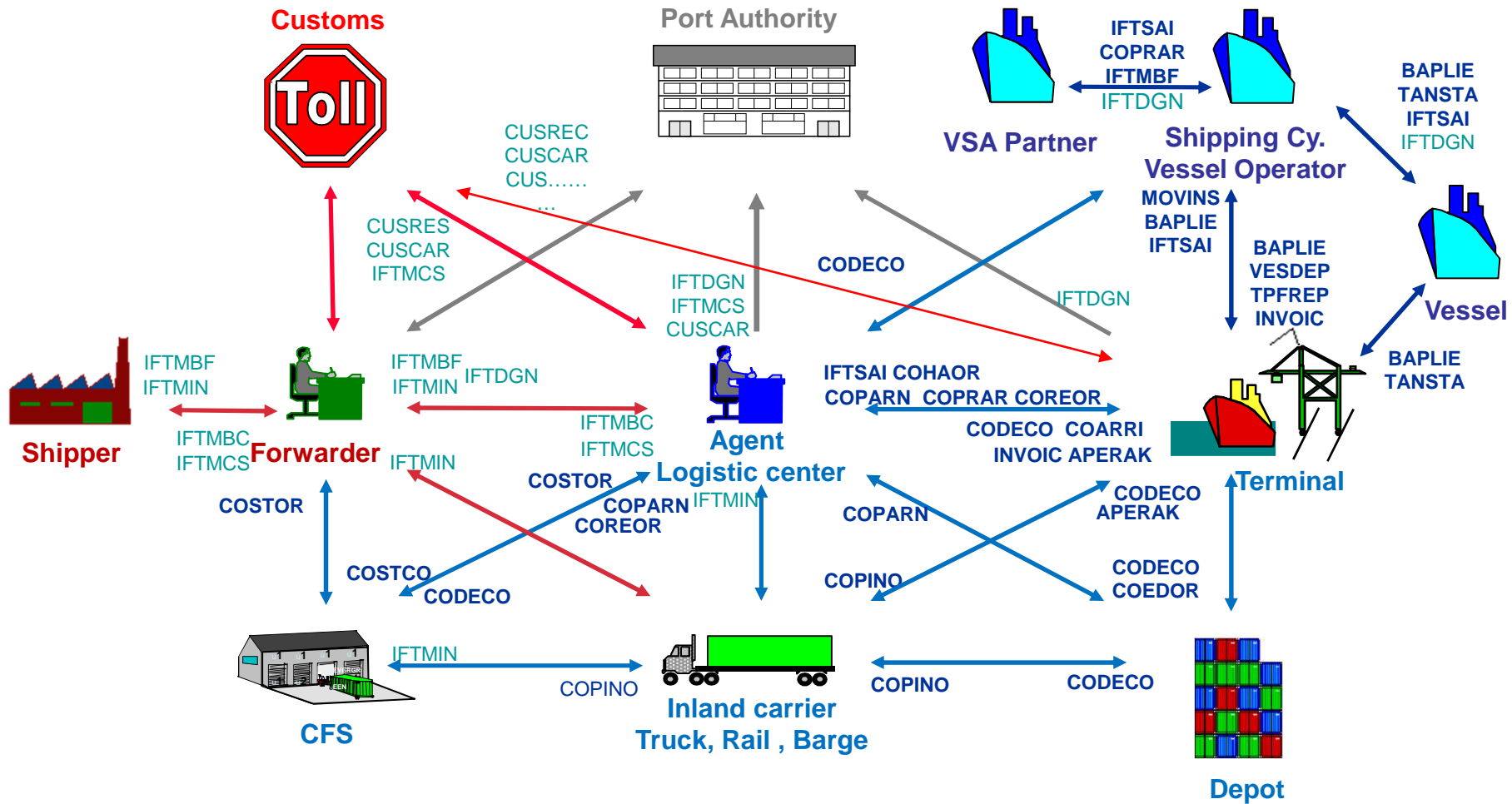
Container Information Flow

Parties



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

Container Information Flow



SMDG maintained messages



Commercial messages (ITIGG)

- Booking - Shipper, Forwarder → Agent

Operational messages (SMDG)

- Agent, Depot, CFS, Inland transport, terminal

Vessel related messages (SMDG)

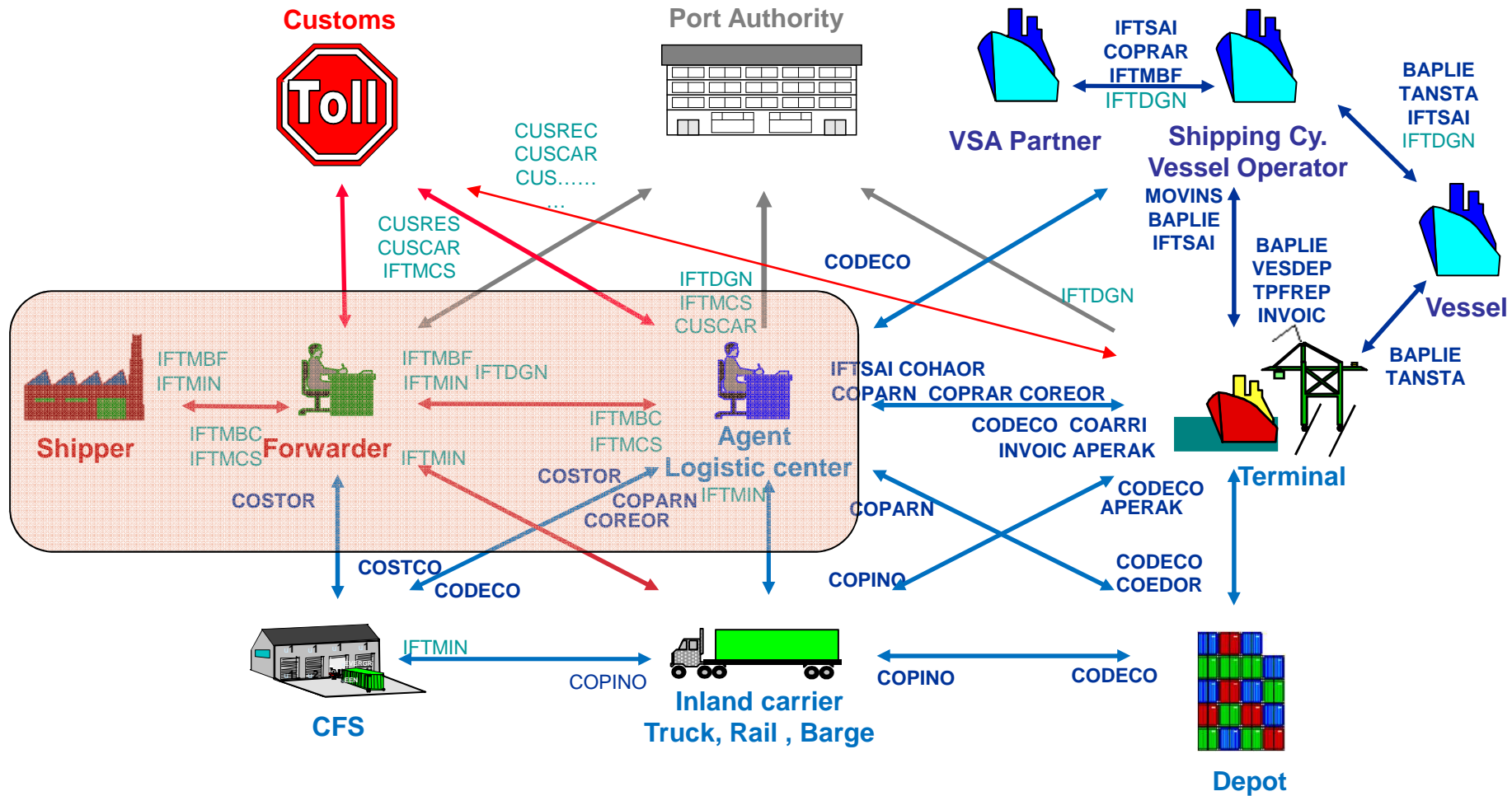
- Vessel schedule & planning,
Load/Discharge, Performance, Invoice

Authorities messages (Local)

- Customs, Port Authority, Dangerous Cargo

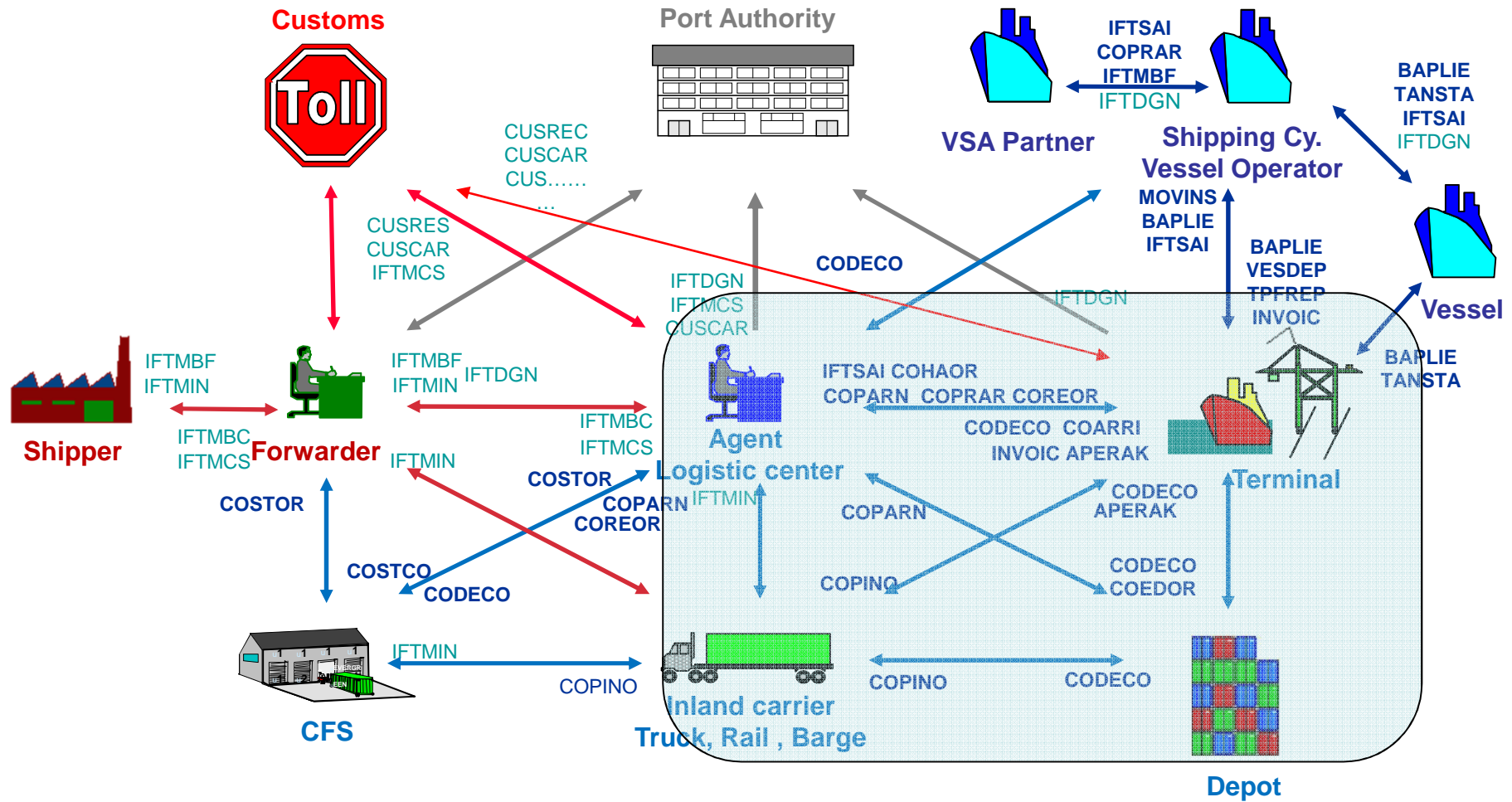
Container Information Flow

Commercial messages



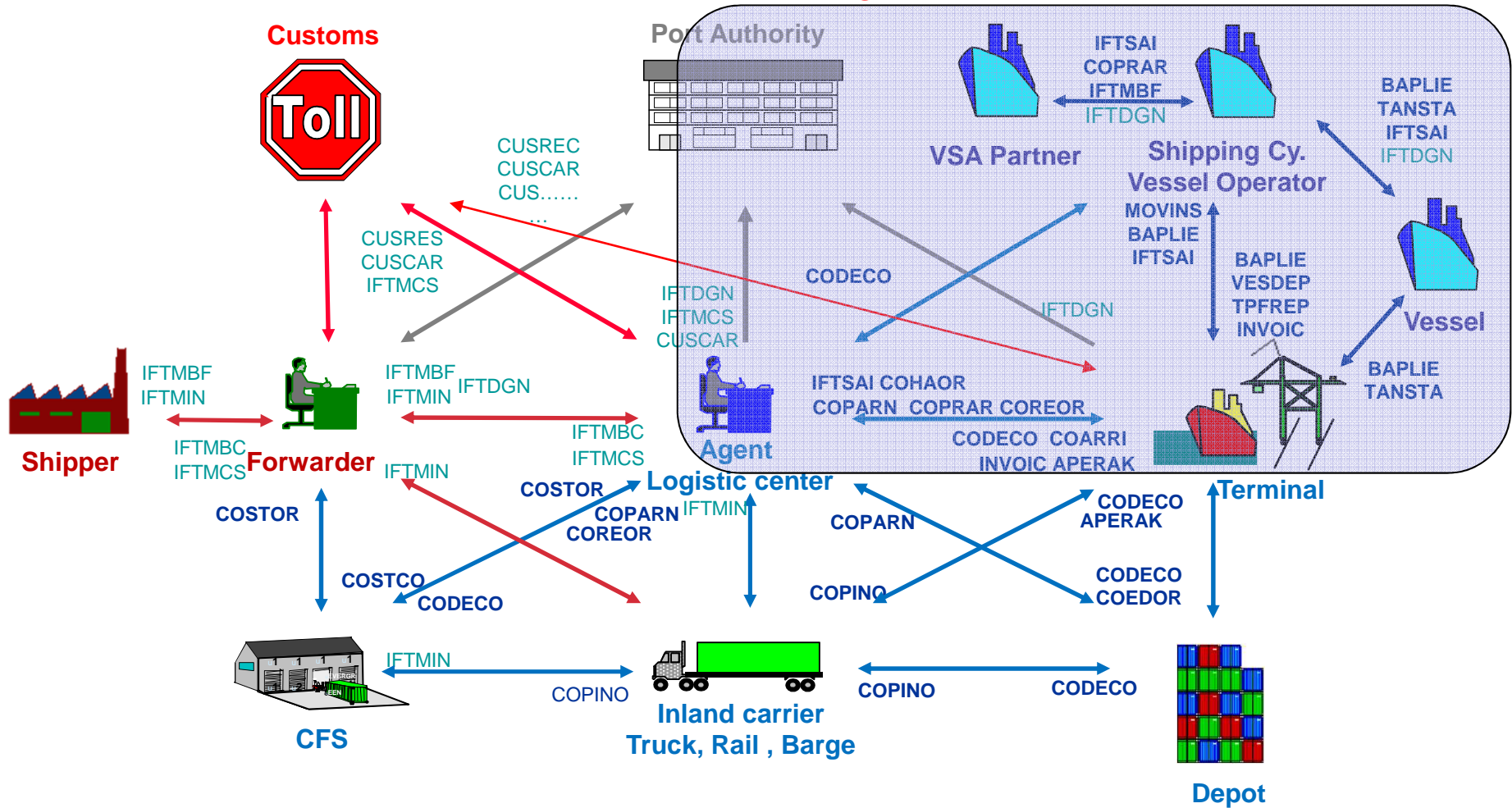
Container Information Flow

Operational messages



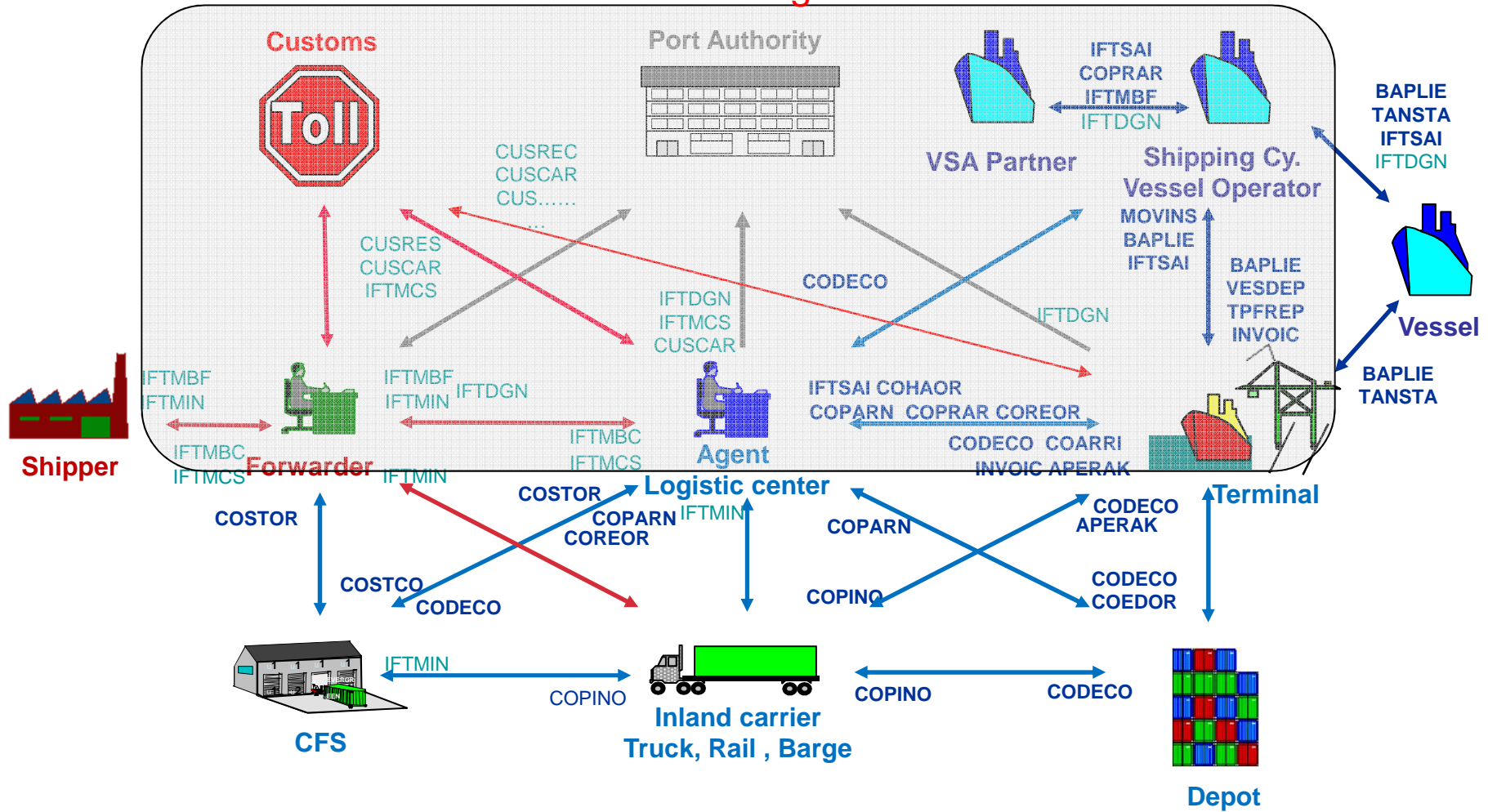
Container Information Flow

Vessel related messages

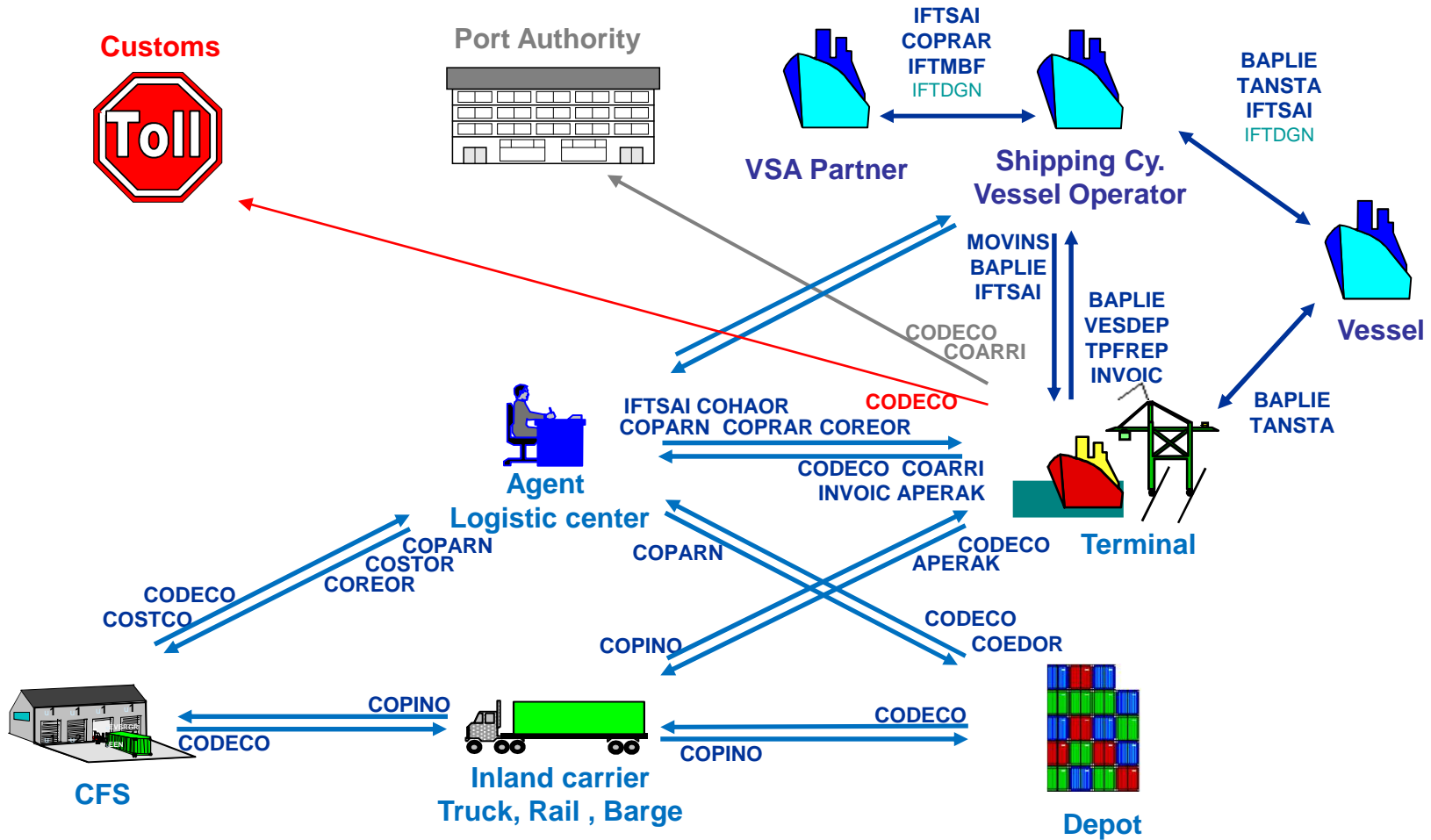


Container Information Flow

Authorities messages



SMDG - Operational Messages



Container Information Flow



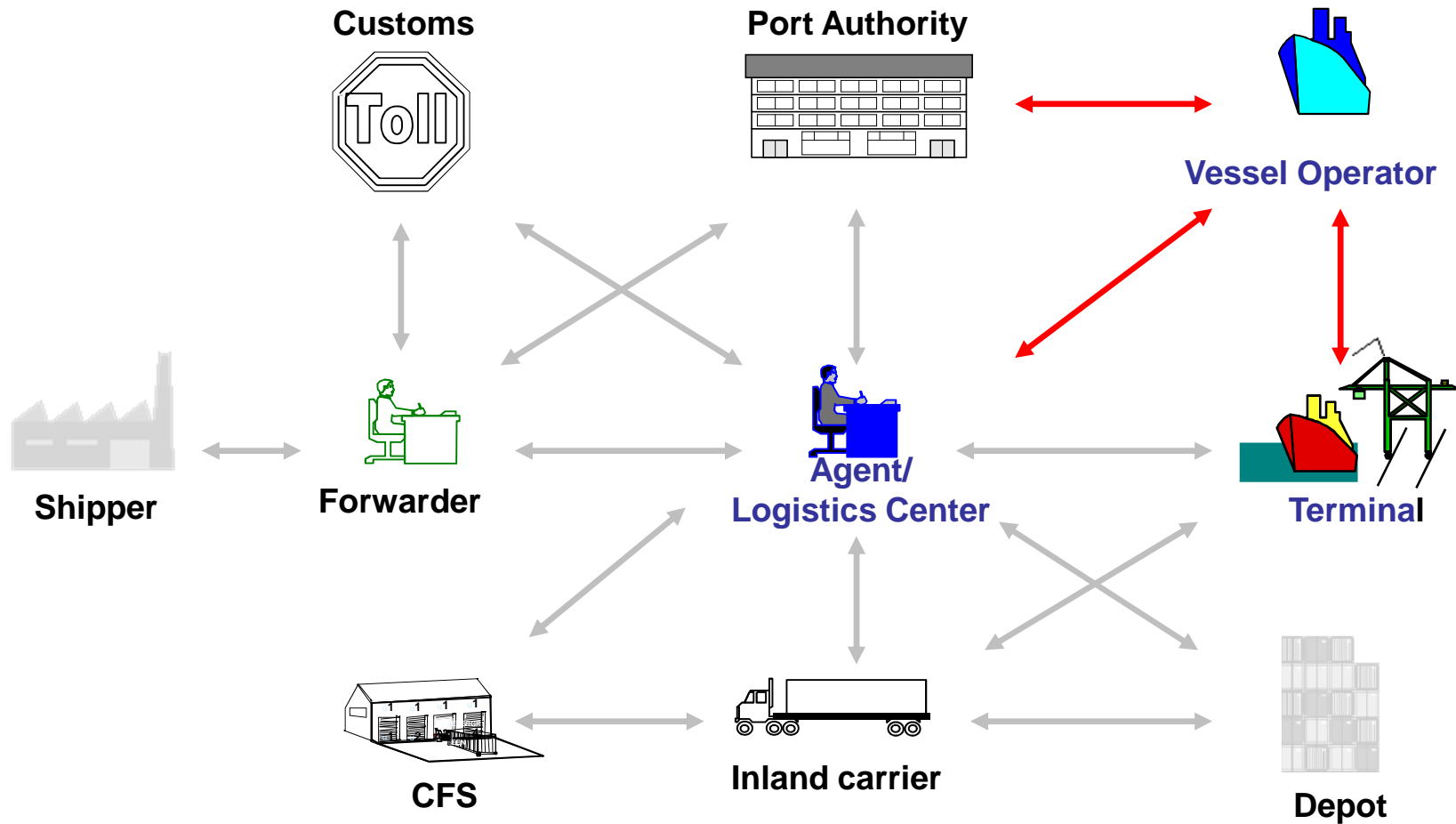
- **Export cycle**
- **Import cycle**

Export Cycle

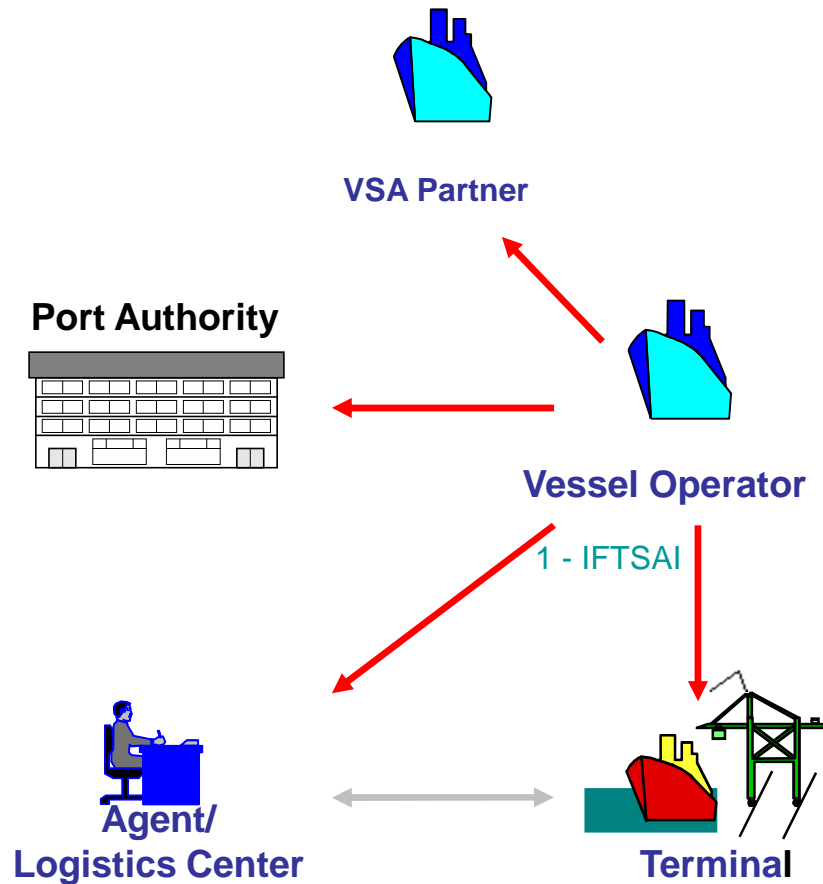


- ❏ **Vessel schedule information**
- ❏ **Booking of cargo**
- ❏ **Transport of cargo**
- ❏ **Empty container to CFS**
- ❏ **Full container to Terminal**
- ❏ **Vessel planning**
- ❏ **Full container from Terminal**

Vessel schedule information



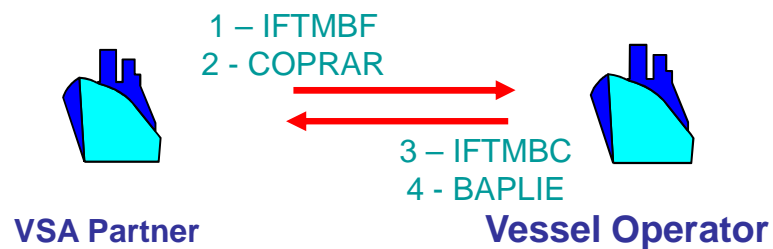
Vessel schedule information



- 1. Vessel operator sends the vessel information **IFTSAI**

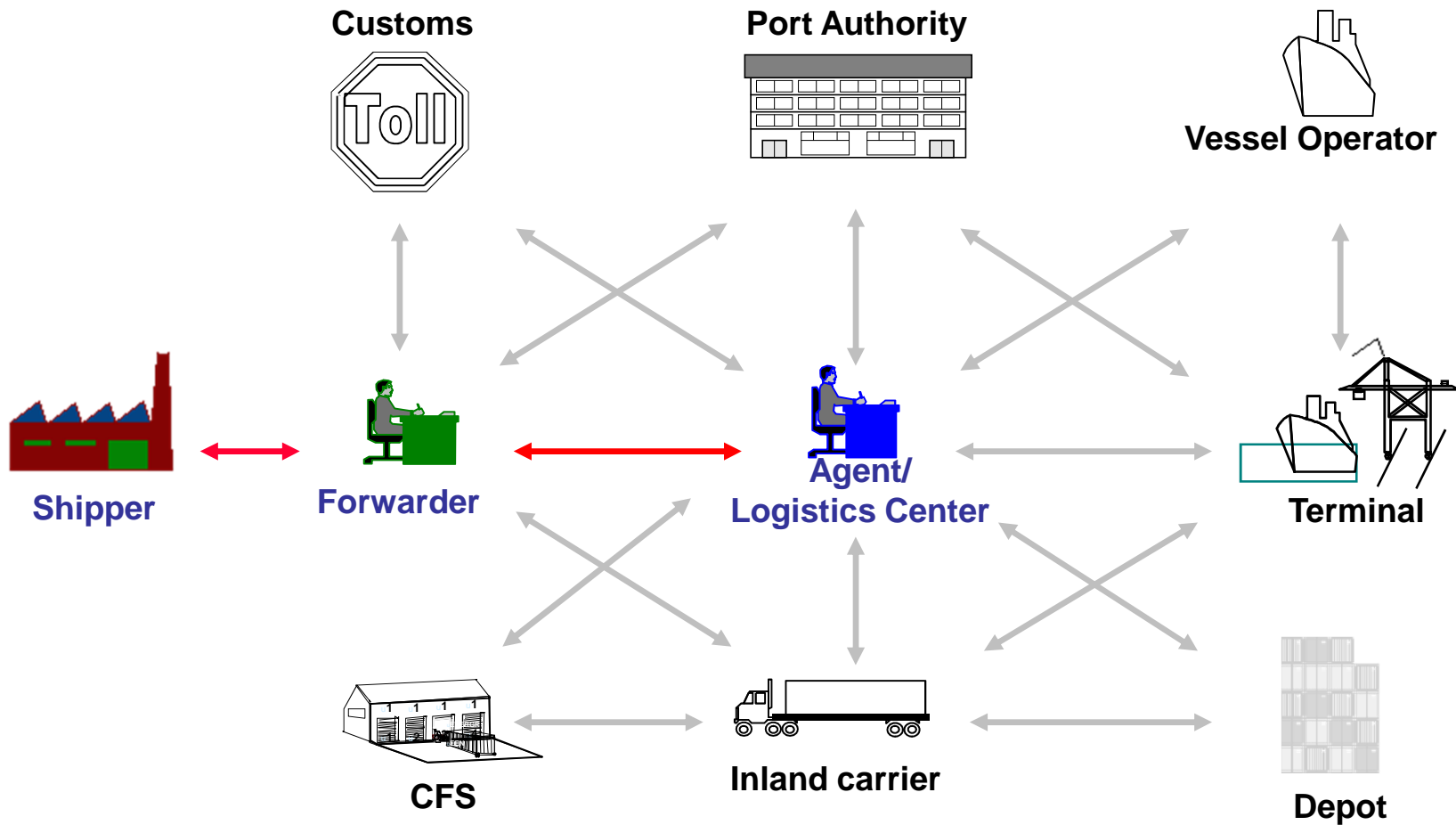
→ Call & Schedule information must be available in target system (e.g. terminal) before booking announcement can start

Vessel Operator - VSA Partner

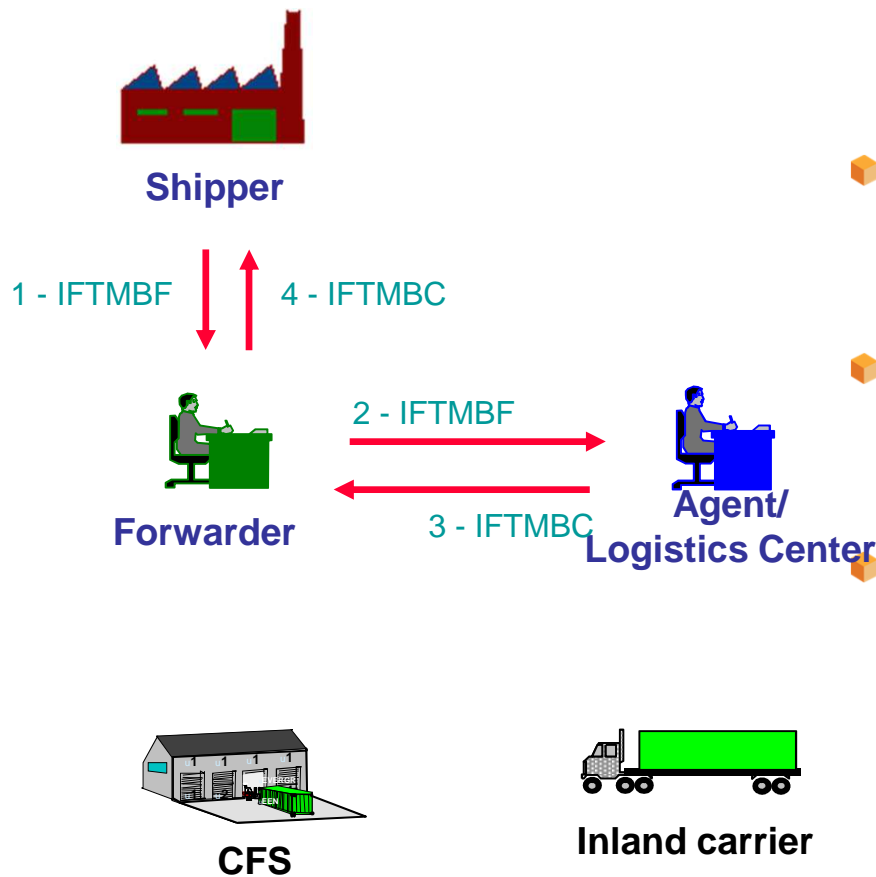


- 1. Booking of DG container on the vessel **IFTMBF**
- 2. Advice intended loadings on the vessel **COPRAR**
- 3. Booking confirmation of DG container **IFTMBC**
- 4. After sailing – actual container s **BAPLIE**

Booking of cargo

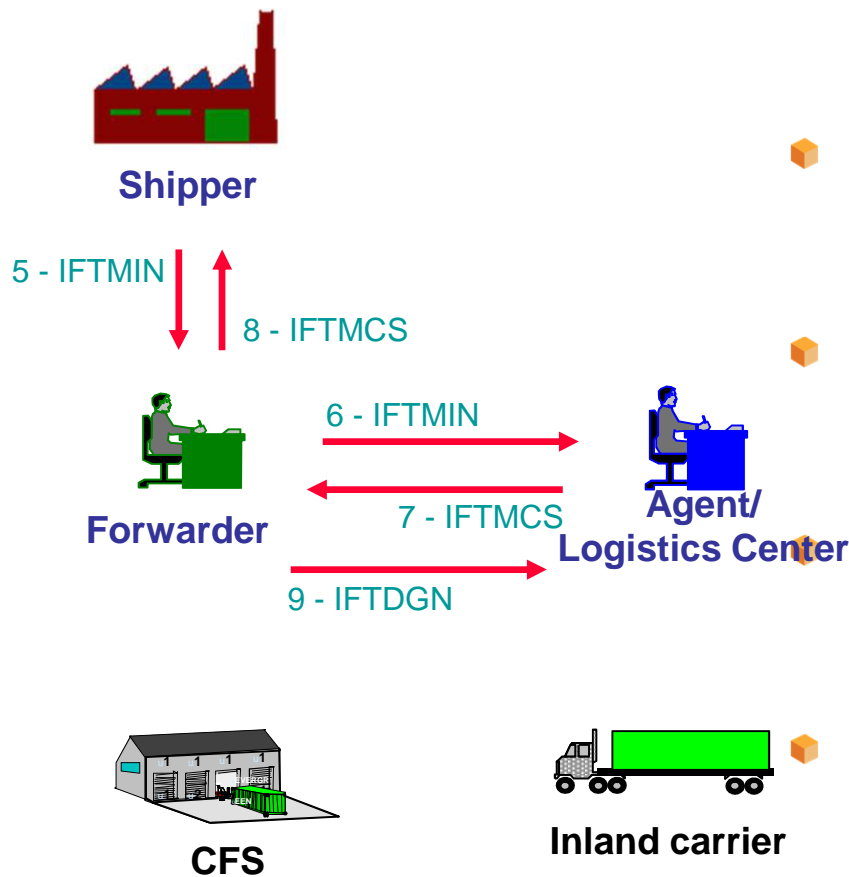


Booking of cargo



- 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**

Booking of cargo - continued



5. Shipper sends shipping instructions to Forwarder **IFTMIN**

6. Forwarder sends shipping instructions to Agent **IFTMIN**

7. Agent sends instruction contract to Forwarder **IFTMCS**

8. Forwarder sends contract status to Shipper **IFTMCS**

9. Forwarder sends dangerous goods notification to Agent

IFTDGN

S M D G

Transport of cargo

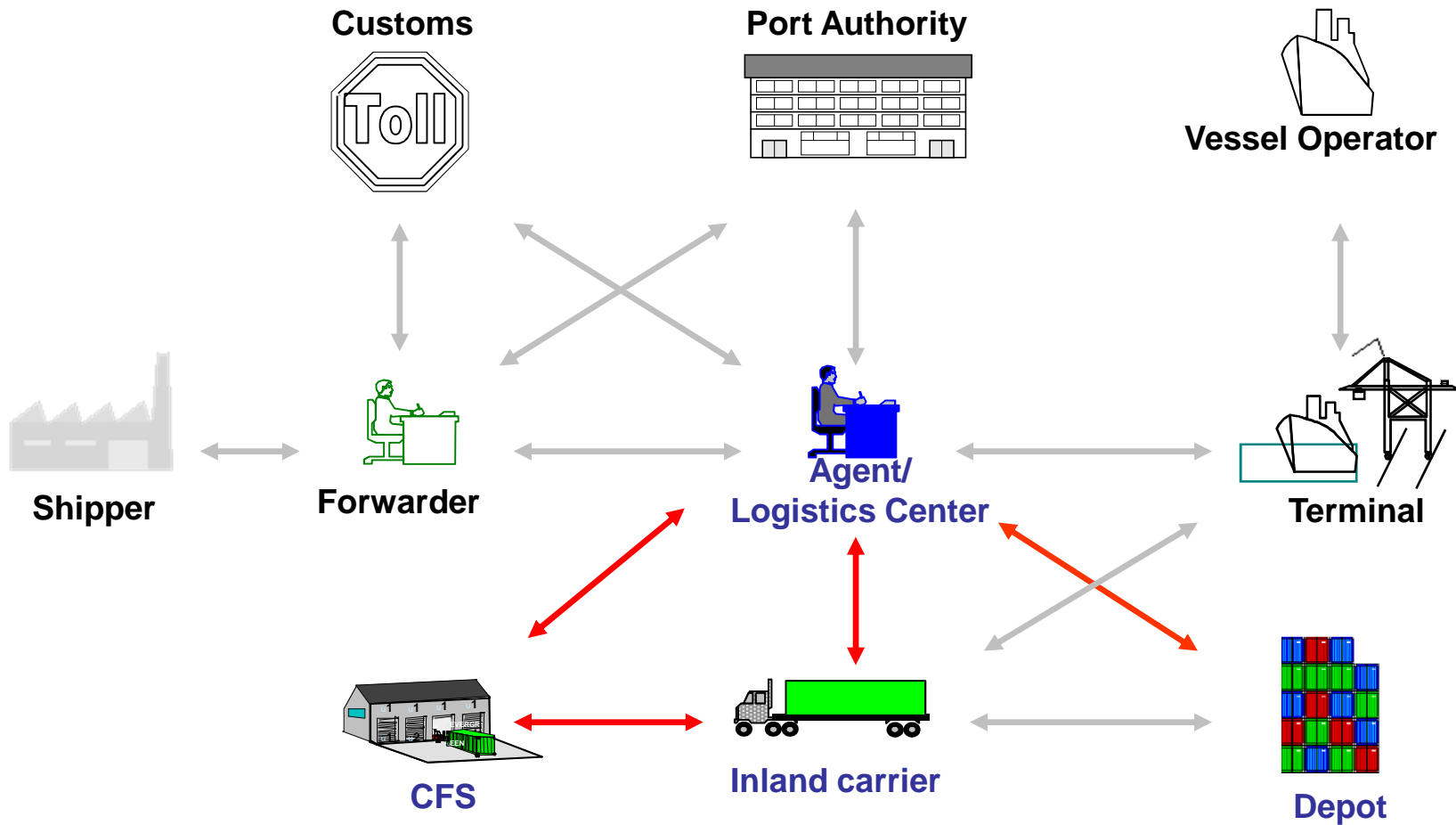


- Forwarder arranges transport to CFS (Merchant H.)
- Agent arranges transport to CFS (Carrier H.)

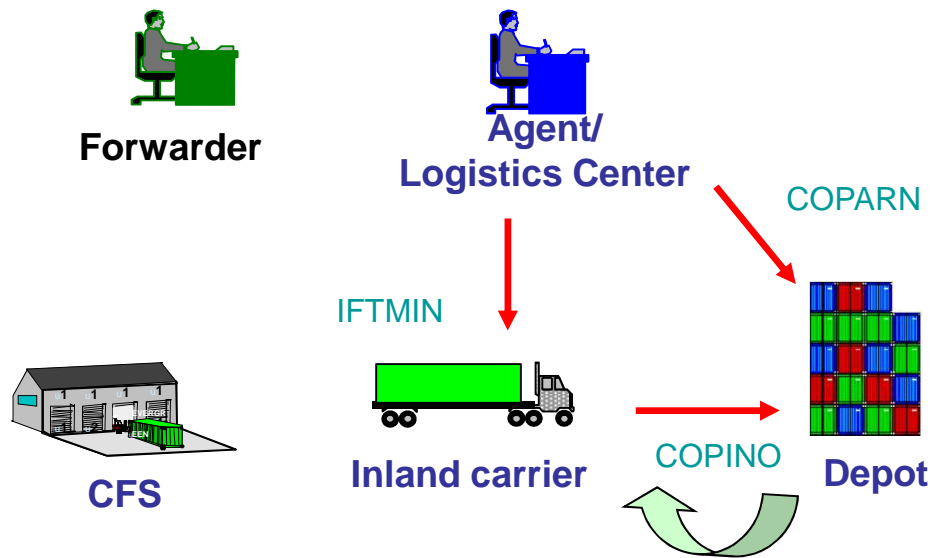
IFTMIN

→ Inland carrier brings goods from Shipper to CFS

Empty container to CFS

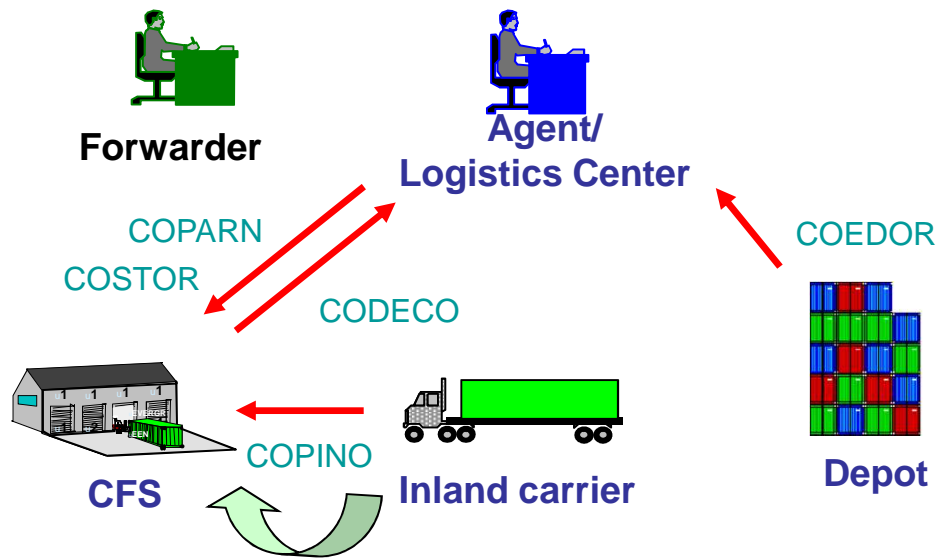


Empty container to CFS - cont.



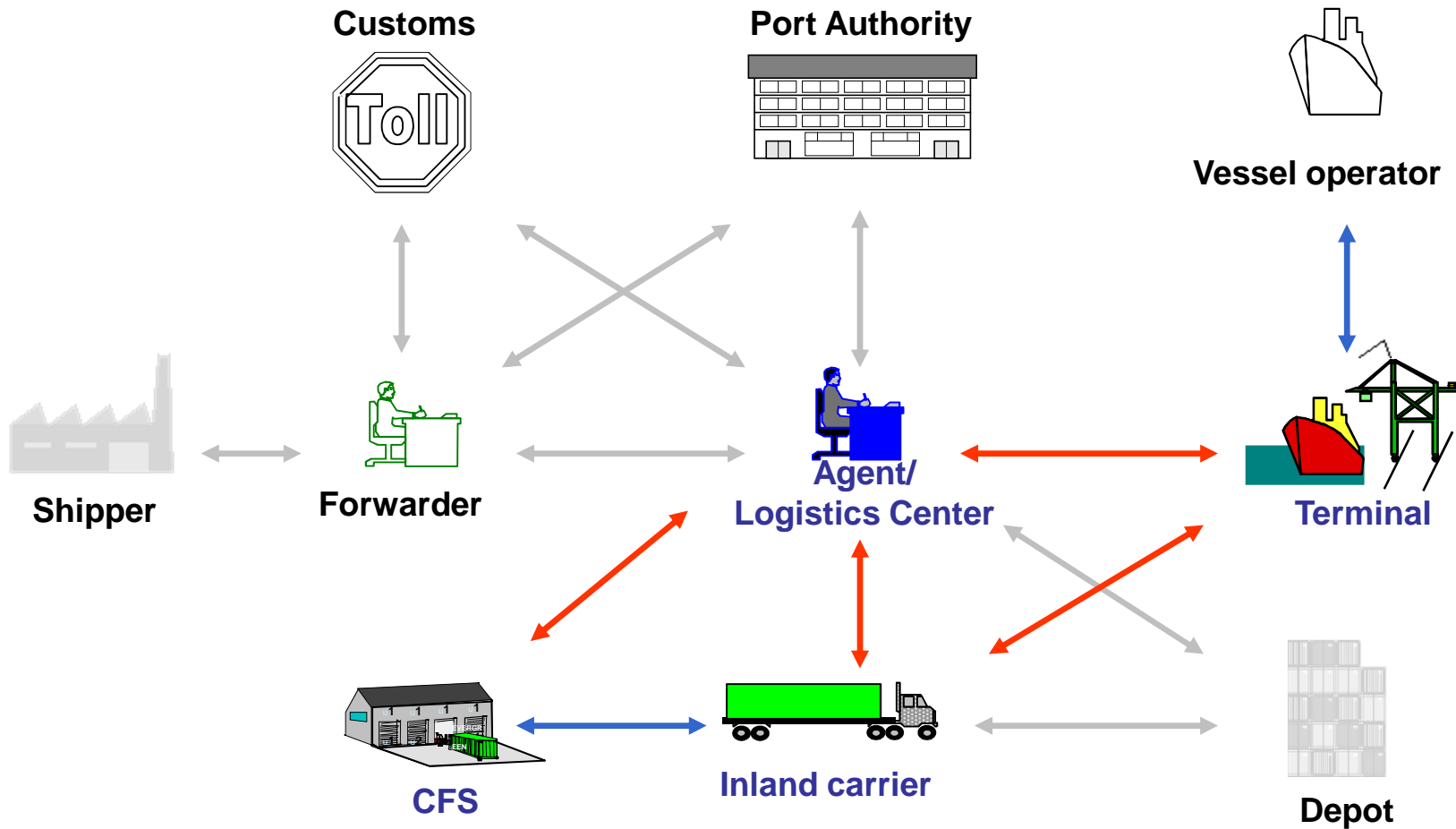
- 1. Liner agent announces release to Depot **COPARN**
- 2. Agent arranges transport to/from Depot **IFTMIN**
- 3. Inland carrier pre advises pick-up to Depot **COPINO**
→ Inland carrier retrieves empty container from Depot
- 4. Depot reports Gate Out move to Agent **CODECO**

Empty container to CFS - cont.

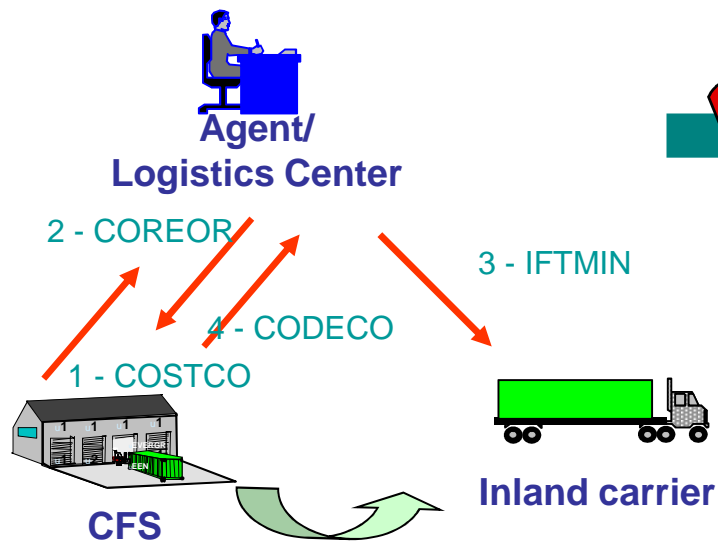


- ◆ 5. Liner agent announces stuffing to CFS **COSTOR**
- ◆ 5. Liner agent announces arrival to CFS **COPARN**
- ◆ 6. Inland carrier pre advises arrival to CFS **COPINO**
→ Inland carrier delivers empty container to CFS
- ◆ 7. CFS reports Gate In move to Agent **CODECO**
- ◆ 8. A stock report is send to Agent/Log.Center **COEDOR**

Full container to Terminal

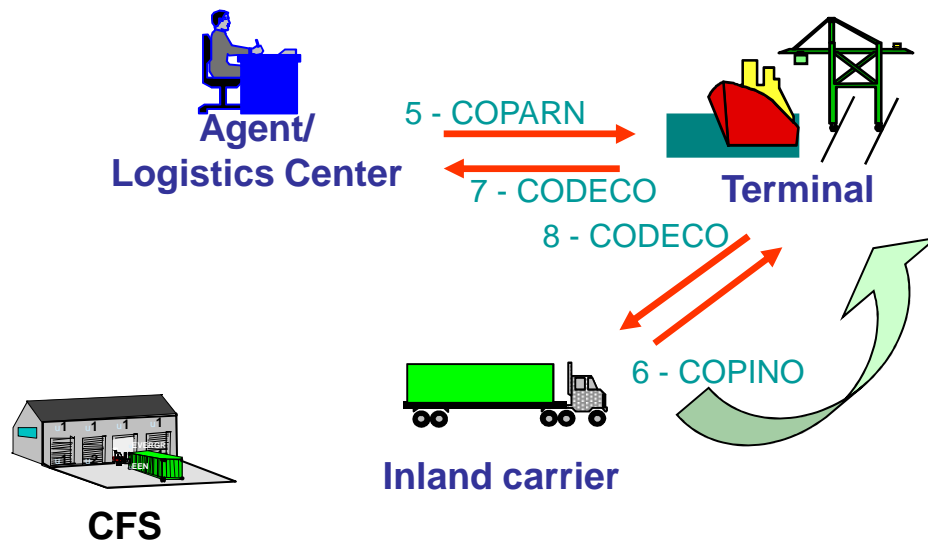


Full container to Terminal



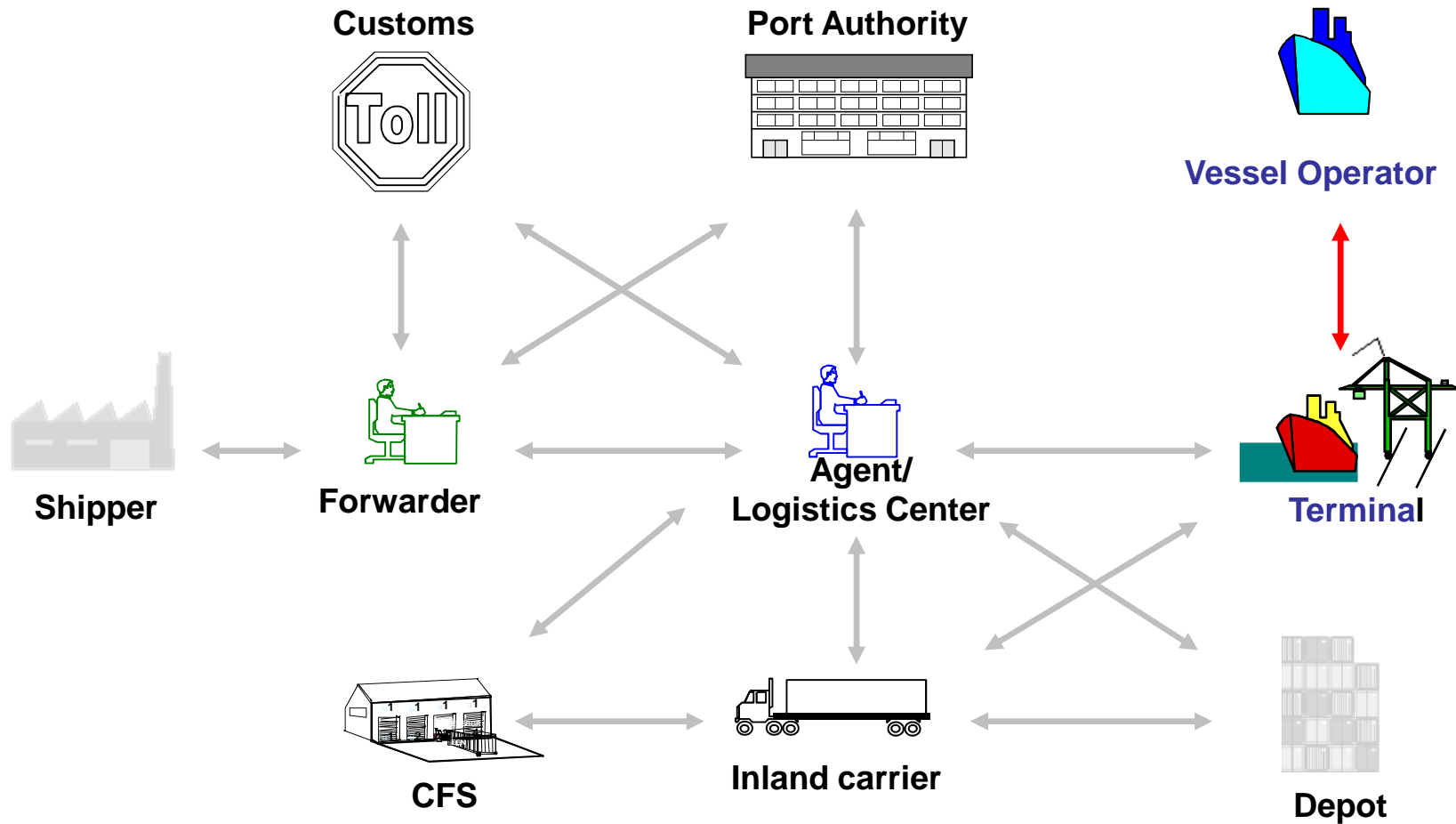
- 1. CFS reports Pack details to Agent **COSTCO**
- 2. Agent releases full container from CFS. **COREOR**
- 3. Agent arranges transport to Terminal **IFTMIN**
→ Inland carrier gets container from CFS/Shipper
- 4. CFS reports gate out move to Agent **CODECO**

Full container to Terminal

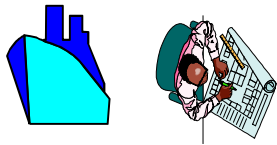


- 5. Liner agent announces arrival to Terminal **COPARN**
- 6. Inland carrier pre advises arrival to Terminal **COPINO**
→ Inland carrier delivers full container to Terminal
- 7. Terminal reports Gate In move to Agent **CODECO**
- 8. Terminal reports Gate In move to Inland Carrier **CODECO**

Vessel planning information

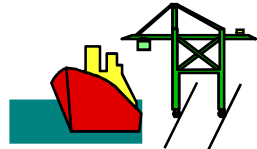


Vessel information to terminal



Vessel Operator

1 - IFTSAI
2 - BAPLIE
3 - MOVINS



Terminal

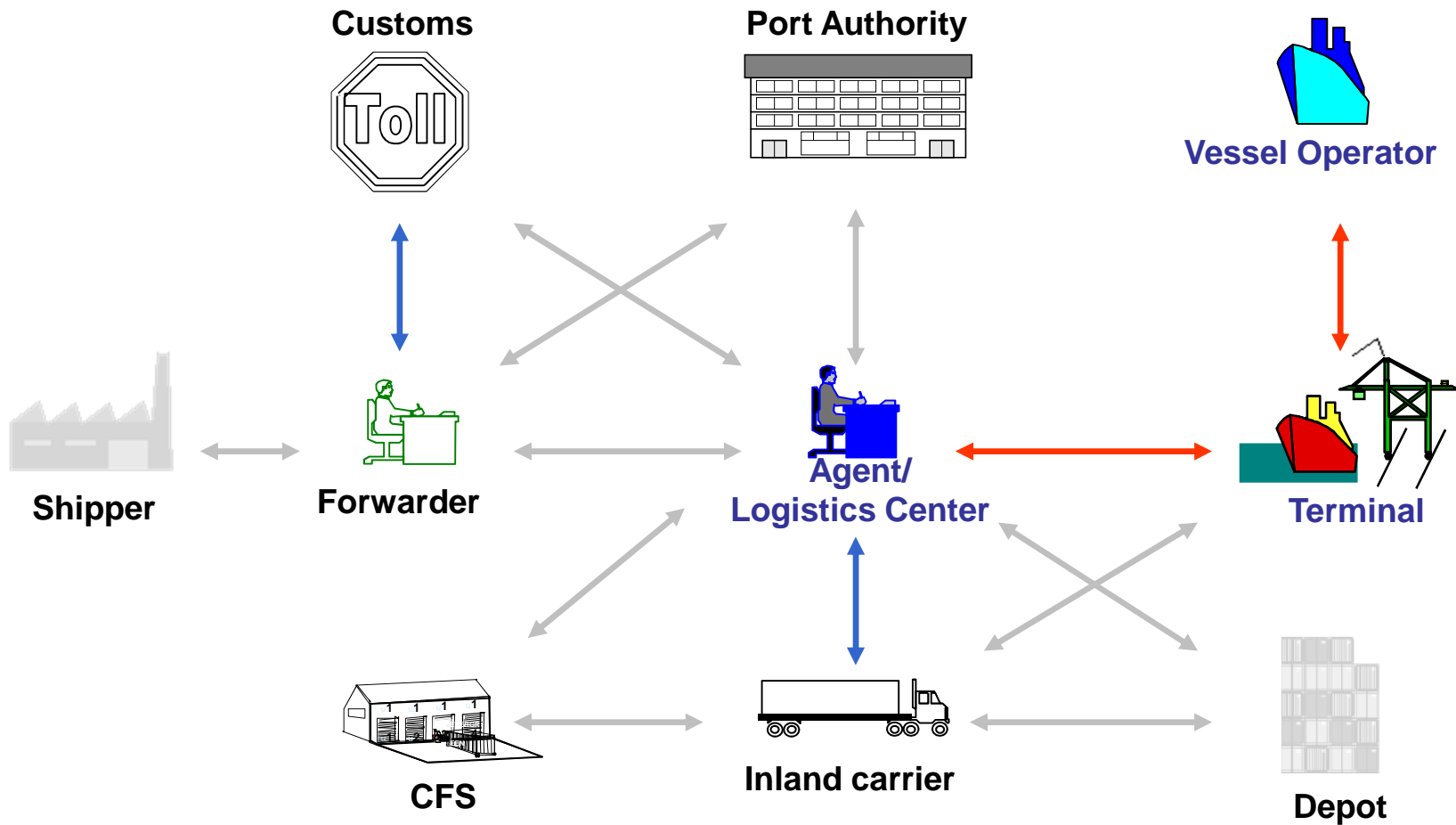
2 - BAPLIE



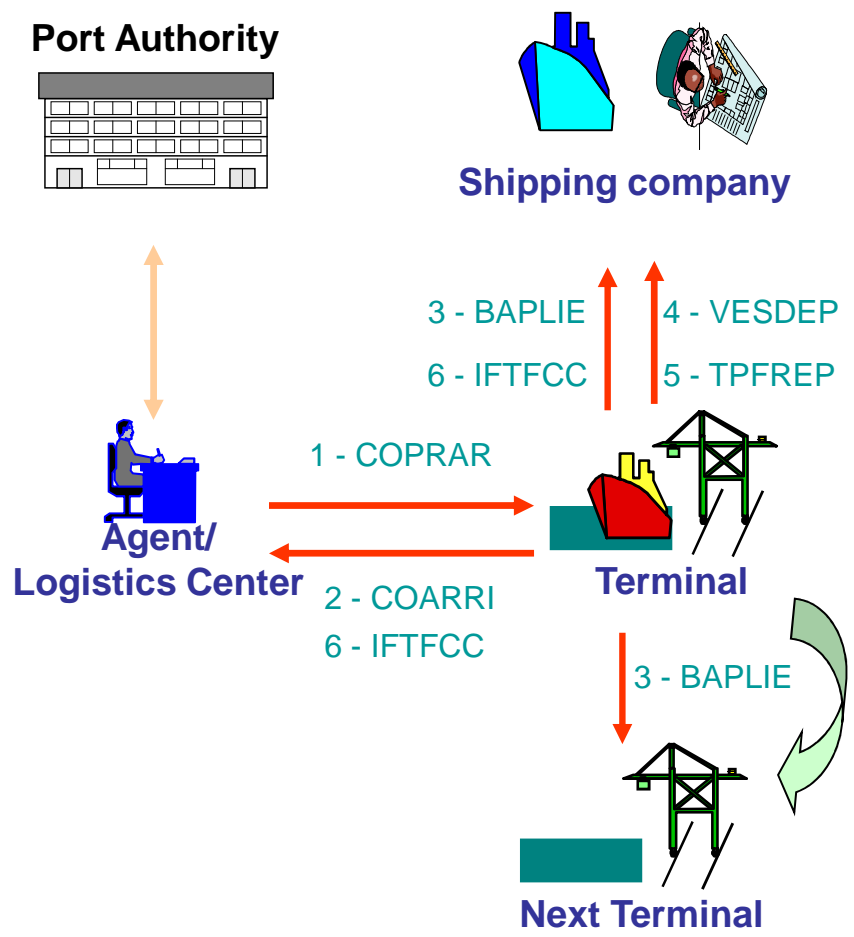
Previous Terminal

- 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



Full container from terminal



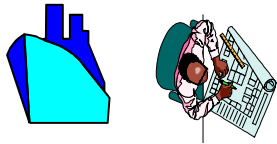
- 1. A Loading Order is sent by the Agent **COPRAR**
- 2. The Loading Report is sent to the Agent **COARRI**
- 3. A new bayplan is send to the Next Port **BAPLIE**
→ Vessel leaves the terminal
- 4. A vessel departure is sent to Tonnage Centre **VESDEP**
- 5. also the Terminal Performance Report **TPFREP**
- 6. Terminal sends Invoice to the Agent or Shipping Line **INVOIC**

A decorative graphic at the top of the slide features two wavy lines of binary code (0s and 1s) in orange and grey. On the right side, there is a 3D illustration of a yellow shipping container.

Import Cycle

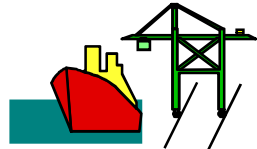
- ❏ **Vessel schedule information**
- ❏ **Full container to terminal (discharge vessel)**
- ❏ **Full container from terminal (gate out)**

Vessel information

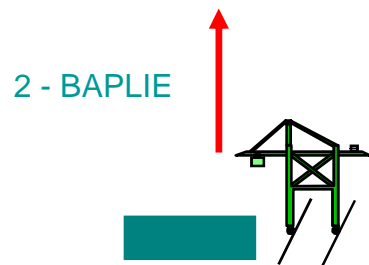


Vessel operator

1 - IFTSAI
2 - BAPLIE



Terminal

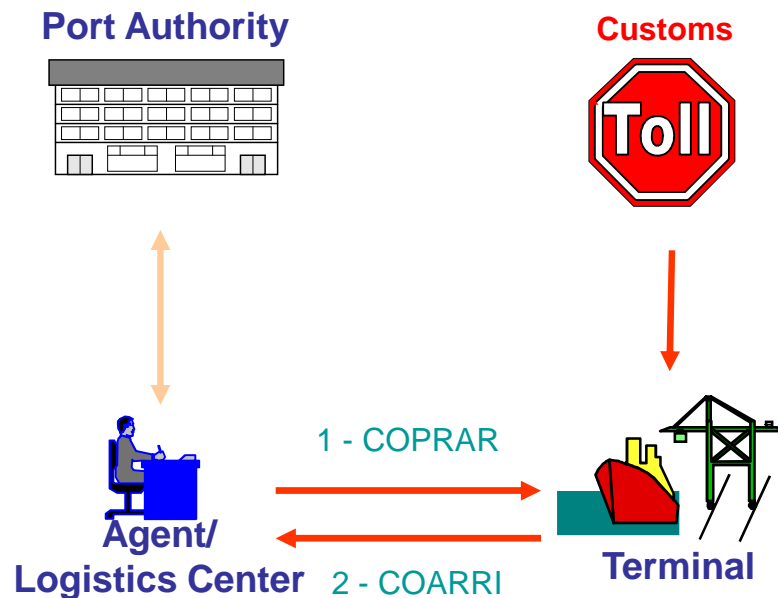


Previous Terminal

1. Vessel operator sends the vessel information **IFTSAI**

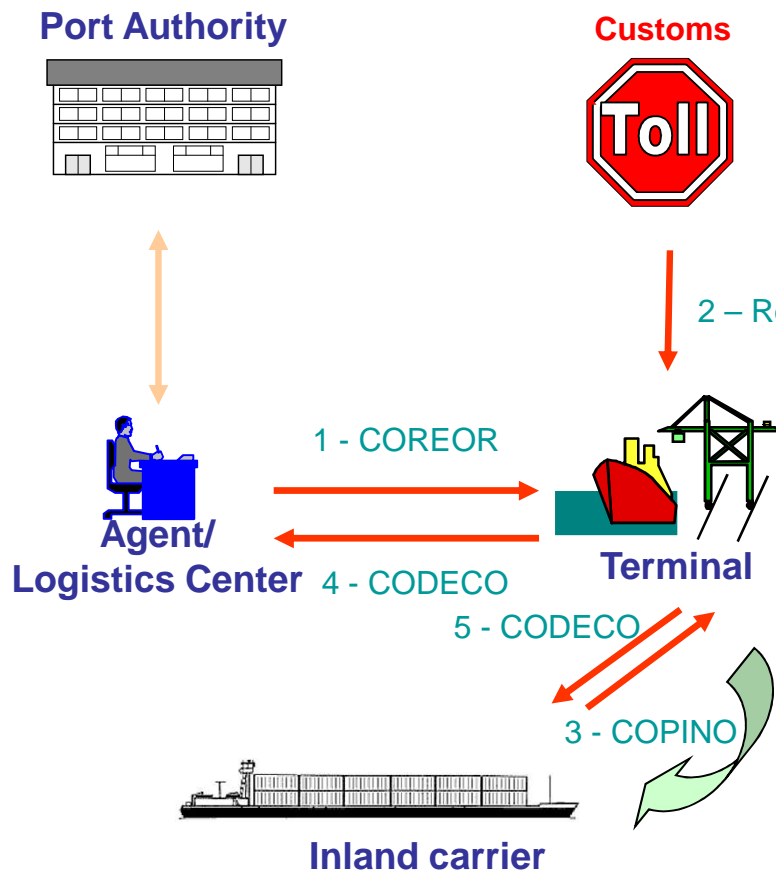
2. Previous port / sends the bayplan **BAPLIE**

Full container to terminal



- 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 **COREOR**
- 2. Customs releases the container **Proprietary**
- 3. Inland carrier pre advises arrival to Terminal **COPINO**
→ Inland carrier picks up full container from Terminal
- 4. The Gate Out Report is sent to the Agent **CODECO**
- 5. A Load Report is sent to the Barge Cy **CODECO**

Empty container to depot



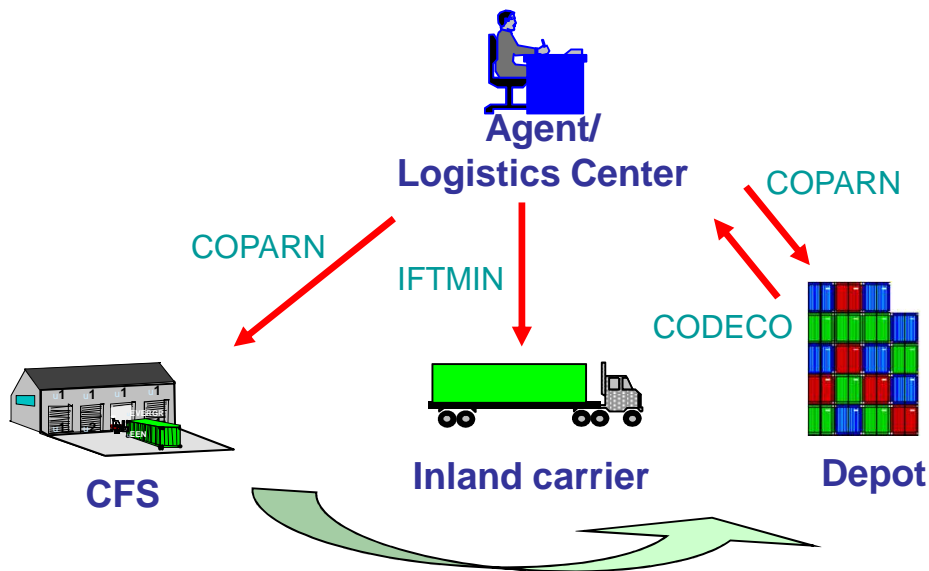
- 1. Agent (LC) releases empty container at CFS. **COPARN**

- 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**



Standard container messages



■ UN/EDIFACT messages for the Maritime industry

- ◆ Developed and Promoted by SMDG
- ◆ Multi modal messages
- ◆ www.smdg.org
- ◆ www.unece.org/etrades/download/downloadindex.htm
- ◆ <http://www.unece.org/trade/untdid/directory.htm>



SMDG

- ◆ **Ship planning Message Design Group**
- ◆ **User group for Shipping Lines and Container Terminals**
- ◆ **Since 1987**
- ◆ **Website: www.smdg.org**
- ◆ **Message user guides**

SMDG - meeting



- Meeting 2x a year
- 35-60 participants from all over the world
- Major 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)**

SMDG - landside messages

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- **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**