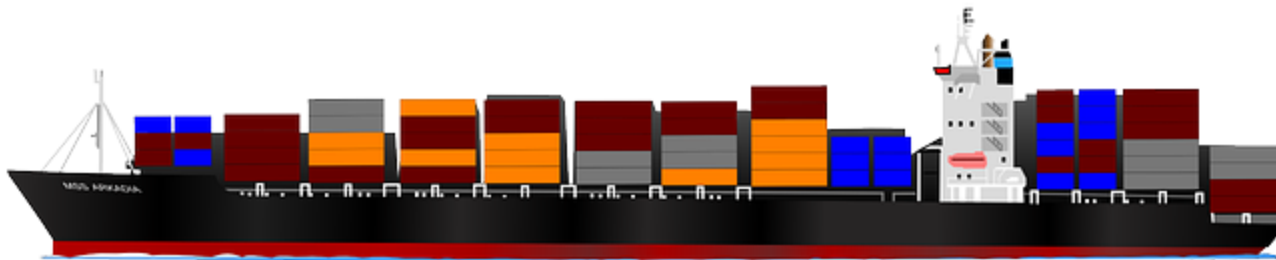# Welcome to SMDG

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SMDG is a non-profit foundation, run by and on behalf of companies and organizations from the maritime industry, like container terminals, ocean carriers and related companies and organizations

SMDG develops, maintains and promotes
the use of EDI messages for the maritime industry

70th SMDG Meeting in Saint Petersburg

The SMDG plenary meetings are held twice yearly in April and October.
Interim meetings are held by the working groups via conference calls.

SMDG stakeholders

Terminal Operator

Vessel Operator

Container Operators

+ Software Providers +

Since 1987 SMDG develops and promotes UN/EDIFACT EDI-messages for the Maritime Industry and is an official Pan European User Group, recognised by the UN/CEFACT body

Message structures essential to the use of electronic commerce in the transport sector have been agreed and approved by the relevant United Nations and local authorities, have been implemented by various communities around the world over the past 20+ years.

SMDG documentation can be downloaded by any interested party free-of-charge from the SMDG website: **www.smdg.org**

SMDG

USER GROUP FOR SHIPPING LINES AND CONTAINER TERMINALS

SMDG

SMDG bodies

UN/CEFACT	UNECE	UN/CEFACT maintains and publishes the official UN/Edifact directory. CEFACT Forum f2f meetings are held twice per year.	The UN/CEFACT Forum decides about change requests from authorized bodies, such as the SMDG, across all industries. They publish directory updates twice per year. They maintain the UN/LOCODE directory.

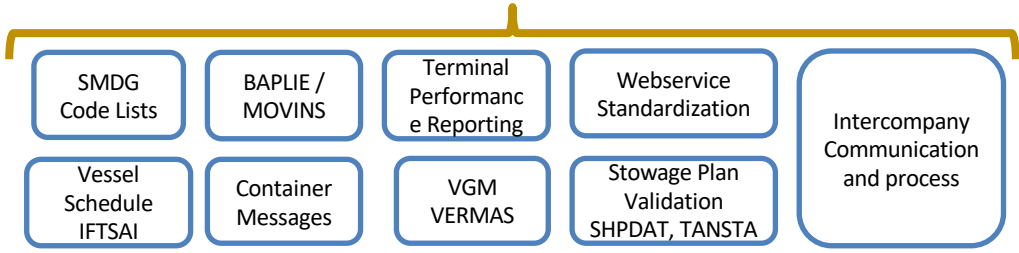|		
SMDG Leader	New since Oct.2016: Chairman **Bruis van Driel**, APMT Terminals Secretary **Arthur Touzot**, ex CMACGM, now independent consultant	Chairman and Secretary are preparing and organizing the Plenary meetings: Location, agenda, minutes, website. They provide general guidelines for the SMDG. Provide SMDG representation are legal bodies and manage the budget.

SMDG Plenary	Plenary f2f meetings are held twice per year, hosted by different member companies	The Plenary nominates Chairmen and members for the workgroups. The chairmen will present results and proposals from their workgroup and request approval. Then they will submit the change request (DMR) to UN/CEFACT. Also any topics of interest to members can be presented. Guests are welcome, but no commercial interest shall be pursued.

SMDG Workgroups	Workgroups meet f2f during plenary sessions and interim via e-meeting	

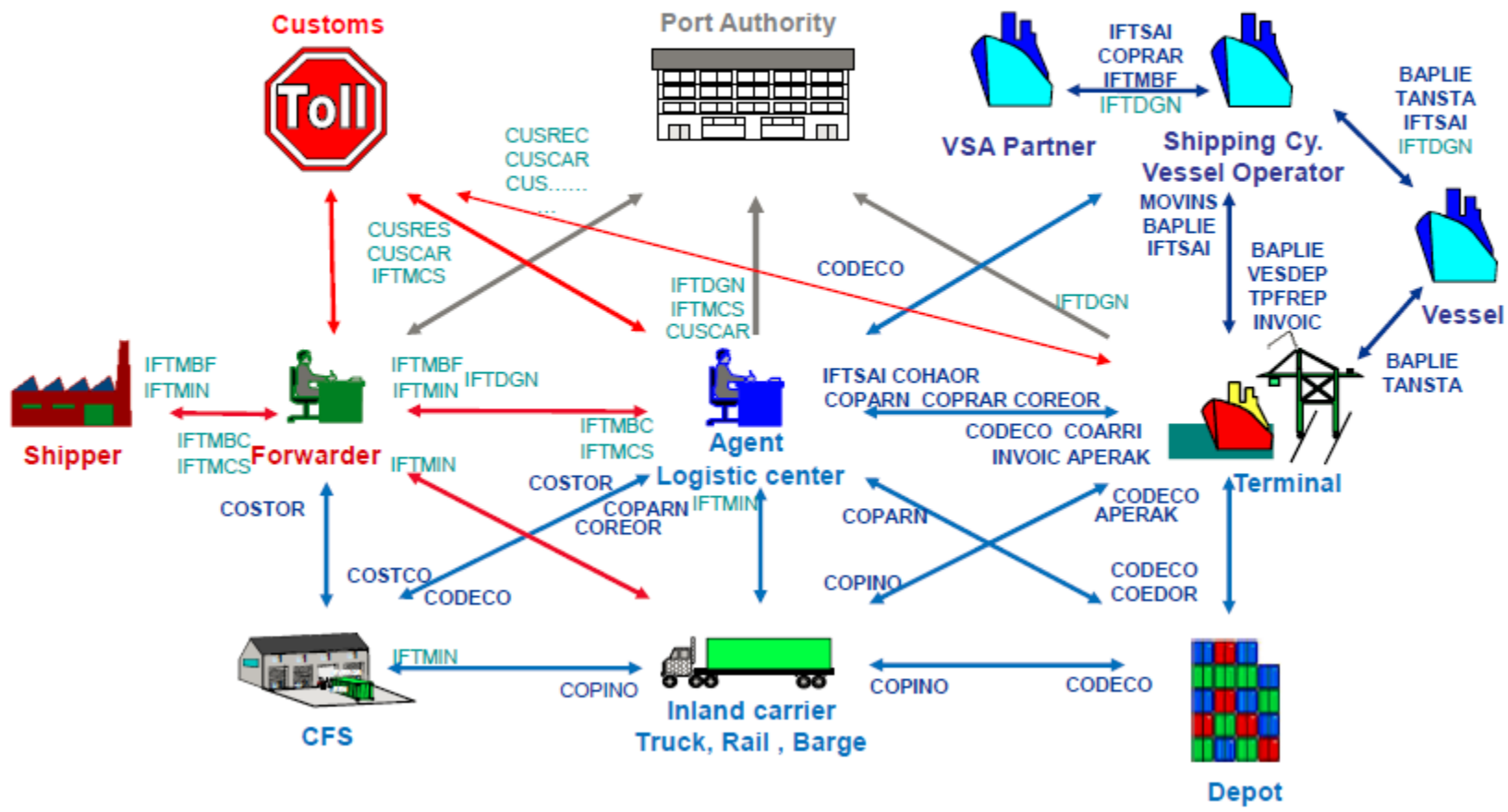|				
SMDG Code Lists	BAPLIE / MOVINS	Terminal Performance Reporting	Webservice Standardization	Intercompany Communication and process
Vessel Schedule IFTSAI	Container Messages	VGM VERMAS	Stowage Plan Validation SHPDAT, TANSTA	

April 2018

SMDG is responsible for the development of the following UN/EDIFACT messages

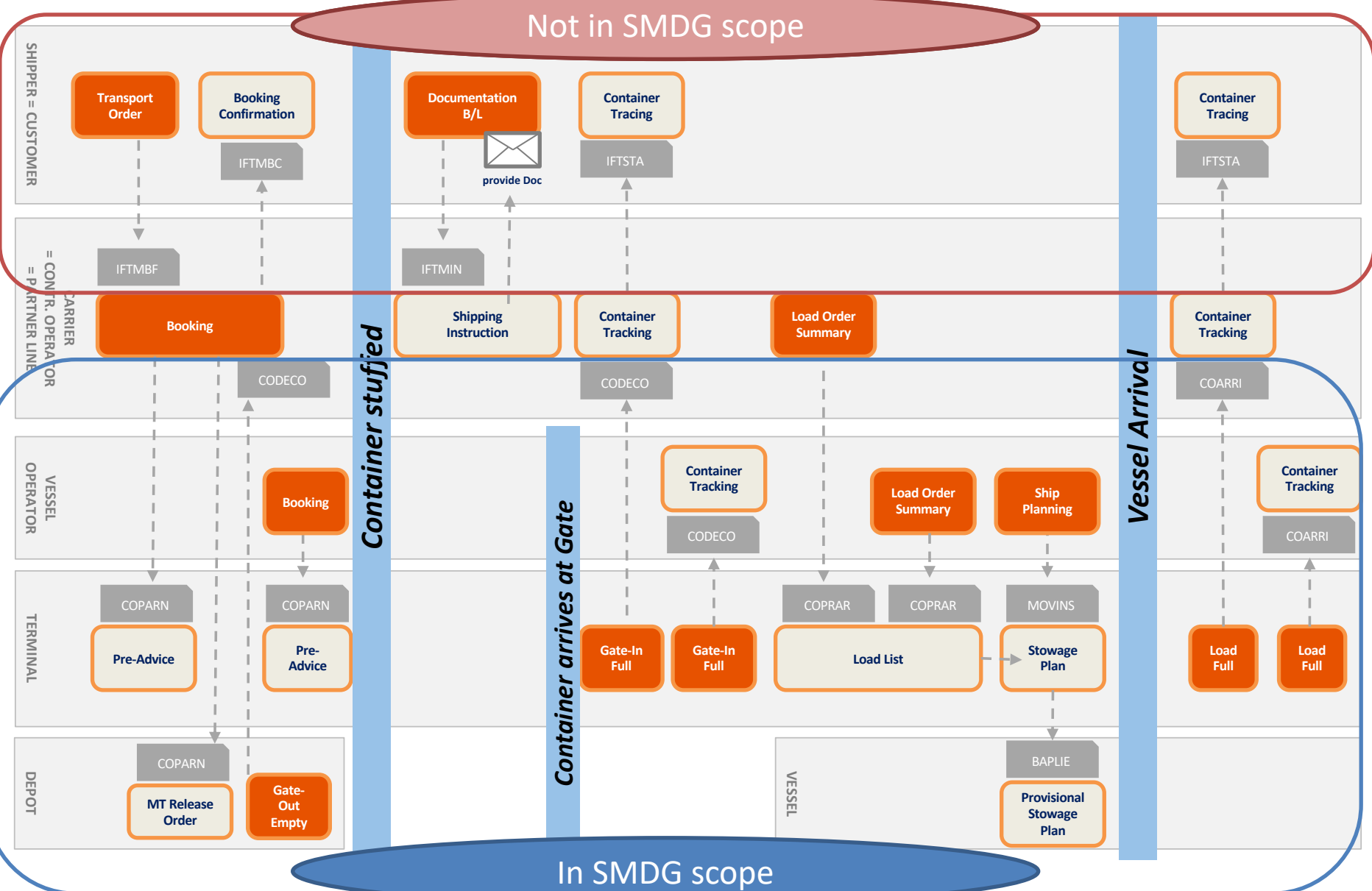|	
BAPLIE	Bayplan Message - position of containers on a ship
MOVINS	Move Instruction Message (for Stowage)
TANSTA	Tank Status Message
TPFREP	Terminal Performance Report
VESDEP	Vessel Departure Message
COPRAR	Container Discharge and Loading List
COARRI	Container Discharge and Loading Confirmation
CODECO	Container Delivery Confirmation (Gate Moves)
COPARN	Container Pre-Announcement and Release Notice
COPINO	Container Pick-Up Notification
COREOR	Container Release Order
INVOIC	Freight Cost and other Charges (e.g. invoice from a terminal)
IFTSAI	Vessel Schedule
IFTSTA	Status Message
IFTMBF	Booking Firm (only for DG Bookings between shipping lines)
SHPDAT	Ship Technical Data Message (under construction)
VERMAS	Verified Gross Mass (new in 2015)

Container Information Flow

Typical use of messages from booking to loading

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Not in SMDG scope

In SMDG scope

SHIPPER = CUSTOMER

Transport Order	Booking Confirmation		Documentation B/L	Container Tracing			Container Tracing
	IFTMBC		✉ provide Doc	IFTSTA			IFTSTA

CARRIER = CONTR. OPERATOR = PARTNER LINE

IFTMBF

IFTMIN

Booking		Shipping Instruction	Container Tracking		Load Order Summary		Container Tracking
CODECO		CODECO					COARRI

Container stuffed

Container arrives at Gate

Vessel Arrival

VESSEL OPERATOR

	Booking		Container Tracking		Load Order Summary	Ship Planning		Container Tracking
			CODECO		COPRAR	COPRAR	MOVINS	COARRI

TERMINAL

COPARN	COPARN								
Pre-Advice	Pre-Advice		Gate-In Full	Gate-In Full	Load List	Stowage Plan		Load Full	Load Full

DEPOT / **VESSEL**

COPARN

MT Release Order	Gate-Out Empty

BAPLIE

Provisional Stowage Plan

The way to standardisation

```
┌──────────┐                                    ┌─────────────────────────┐
│  Start   │                                    │  Submit official DMRs to│
└────┬─────┘                                    │  UN/CEFACT Secretary    │
     │                                          └───────────┬─────────────┘
     ▼                                                      │
┌────────────────────────────────┐                         │
│ Prepare draft DMRs for the      │                         │
│ message structure and           │                         │
│ codes/qualifiers                │                         ▼
└────┬───────────────────────────┘          Assessed by Methodology & Technology PDA
     │                                          • EDIFACT: Syntax Focal Point
     ▼                                          • ebXML: Library Maintenance Focal Point
┌────────────────────────────────┐
│ Propose to SMDG Plenary         │
└────┬───────────────────────────┘
     │
     ▼
  Assessed by SMDG    — Rejected
     │ Approved
     ▼                          ┌──────────────────────┐   ┌────────────────────────┐
┌────────────────────────────┐  │ Added into the UNTDID│   │ Not added into the UNTDID│
│ Propose to T&L Domain Group│  └──────────┬───────────┘   └────────────────────────┘
└────┬───────────────────────┘   Approved  │                  Rejected
     │                                      ▼
     ▼                              ┌──────────┐
  Assessed by T&L Domain Group      │   End    │
   Rejected        Approved         └──────────┘
```

Rejected

Approved

Rejected

Approved

Rejected

Current standardisation projects

- **Webservice Standardization**
  For the first time, SMDG is stepping into a different technology than UN/Edifact:

  - Provide standards for the description of Input Request and Output Response,
    based on the UN data models CCL and MMT.

  - Provide basic principles for Webservice usage and implementation /
    design guideline. Make recommendations on best practices.

  - Provide reference implementation of some pilot Webservices, based on the proposed standards. Also
    a manual describing the underlying business process.
    Make this publicly available.

Current standardisation projects

- **TPFREP (Terminal Performance Report)**
  Long wish list piled up since last upgrade in 2011. New version 4.1 is under development. Changes are expected to be approved by UN/CEFACT for D.18° directory.

- **IFTSAI Vessel Schedule**
  Enhancements for reporting from Barge operator to terminal, for reporting connecting vessels, for additional cut-off dates etc. under development

- **VGM and VERMAS**

VERMAS was developed as a completely new message type in 2016, for reporting of Verified Gross Mass as per IMO / SOLAS convention. It has become the world standard in short time. No enhancement request on the table that would justify a new version.

- **IFTMBF for exchange of DG bookings between shipping lines**

SMDG has assumed responsibility for this special variant of the IFTMBF and published the MIG on our website. New version 1.4 under development, covering many items on the wishlist.

- **MOVINS (Stowage Move Instruction)**

Major redesign, in line with the new BAPLIE 3.1 - MOVINS and BAPLIE go hand in hand in the stowage planning process

- **TANSTA (Tank Status Message)**

Redesign is required by shipping lines and software vendors.

- **Repair Estimate**

from the container repair shop to the container operator.

Redesign of the DESTIM and WESTIM messages.

- **ConRo vessels**

Support the special data transmission needs regarding vessels for both RoRo and Containers to be loaded.

SMDG Code lists

The code lists are maintained and published by the SMDG and are widely recognized

· Master Liner codes =

vessel operator codes

· Terminal codes =

more detailed level than port
UN/LOCODE. Recognized as «child
code list» under the UN/LOCODE.

· Smaller code lists developed along
with BAPLIE 3 e.g. Handling Codes

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v201509 (September 2015)

SMDG Master Liner Codes Lis

SMDG RECOMMENDS TO USE 3 CHARACTER CODES ONLY!!!

Line	Code	last change	valid from	valid before
Hamburg-Sud	HSD		2003-09-01	
Hanjin Shipping	HJS		2003-09-01	
Hanjin Shipping	HSC	2015-01-21	2003-09-01	2015-01-01
Hapag Lloyd	HLC		2003-09-01	
Hatsu Marine	HTM		2003-09-01	
Hay Yang Shipping Co.	HYS		2003-09-01	

Example: **LOC+11+RULED:139:6+PLP:72:306**

LOC C517.3225			LOC C519.3223
UN-Locode	**Company Name**	**Terminal Facility**	**Terminal Code**
DEHAM	Buss	SCHUPPEN 81	81
DEHAM	HHLA	HHLA Altenwerder	CTA
DEHAM	HHLA	HHLA Burchardkai	CTB
DEHAM	EUROGATE	EUROGATE Container Terminal Hamburg	EGH
DEHAM	LZU	LZU Leercontainerzentrum Unikai GmbH Buc	LZU
DEHAM	C. Steinweg	Am Kamerunkai 5 Sud-West Terminal	SWT
DEHAM	HHLA	HHLA Tollerort	CTT
DEHAM	Unikai	Unikai - UCT	UCT

SMDG Recommendations

The recommendations for standardization requirements that are not otherwise covered are widely recognized:

1. **Tier numbering =** How to define stow positions for vessels with more than 9 tiers on deck that are not covered by ISO9711

2. **Containers with non-ISO ID =** How to handle a container number without alpha-prefix

➔ New recommendation under development:

Best practices for the use of typical messages between a carrier and a terminal, along with their version.

This can be referred to from a contract between a carrier and a terminal (as EDI appendix)

Liaison with standardisation and other organisations

UN/CEFACT
Good cooperation in many standardisation initiatives

UNECE
UN-Locode directory

GEFEG
Future validation portal

PCS
Various PCS using our messages

PROTECT publishes the IFTDGN, WASDIS and BERMAN messages

ISO9711 stow position and ISO6346 container size/type. Cooperation could be closer

INTTRA would development MIGs for IFTMBF and IFTMIN enhanced for VGM reporting

BIC
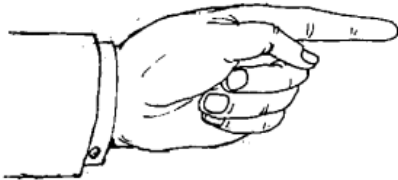publishes a code list for inland depots and repair shops

ANSI X.12
could be more intense

EXIS provides a code list for reporting Dangerous Goods

WORLD SHIPPING COUNCIL
PARTNERS IN TRADE

SMDG
USER GROUP FOR SHIPPING LINES AND CONTAINER TERMINALS

Join the community and set the standards !

Contact us at *www.smdg.org*
or at *secretariat@smdg.org*
or come to our meetings!