

Agenda





- Introduction
- Using Terminal Codes
- New TCL features
- Current status and open tasks







- Why SMDG Terminal Codes?
 - Appropriate international standard code list is missing or not sufficient
 - The SMDG is officially recognised by UN/CEFACT as Child Code List Agency
 - SMDG Terminal Codes are child codes (extensions) of UN/LOCODE
 - Already used by various players from the maritime industry (carriers, terminals, TradeLens, DCSA, etc.)
 - Suitable for various electronic formats and technologies (EDIFACT, ANSI X.12, XML, Web API, etc.)



- Scope of the SMDG Terminal Code List (TCL)
 - Contains codes for *container handling* terminal facilities that are called by seagoing cargo vessels in maritime transport.
 - Does not contain inland terminals and depots (these are handled by BIC).
 - Contains codes for the facilities of a terminal, not for individual berths at the pier.





- Areas of application
 - Indicate the load/discharge location of a container if a vessel calls at multiple terminals within a port (e.g. in BAPLIE, MOVINS, COPRAR, COPARN)
 - Identification of terminal in reports (e.g. in TPFREP, CODECO, COARRI, IFTSAI)
 - Vessel tracking
 - Container tracking
 - ...and many more.



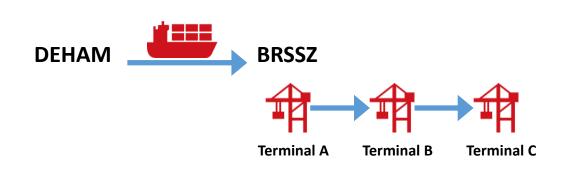


Using Terminal Codes

Use case



• Voyage from Hamburg (DEHAM) to Santos (BRSSZ), vessel calls multiple terminals in BRSSZ





- Problem: The port UN/LOCODE on its own is insufficient to identify the discharge terminal
- Solution: Use SMDG Terminal Codes in addition to the port UN/LOCODE

SMDG		D G SMDG Terminal Code List (TCL)				
	_	_				
WWW.SI	mdg.org		Click here to view the SMDG Terminal Facilities on the world map			
UNLOCODE ,T	Alternative UNLOCODE:	Terminal Code	Terminal Facility Name	Terminal Company Name	Latitude (DMS)	Longitude (DMS)
BRSSZ	ONLOCOBL		BRASIL TERMINAL PORTUARIO S.A. SANTOS	BRASIL TERMINAL PORTUARIO S.A. SANTOS	S 23°55'19"	W 046°21'10"
BRSSZ		ECOS	ECOPORTO SANTOS	ECOPORTO SANTOS	S 23°55'40"	W 046°20'07"
BRSSZ		EMBRA	EMBRAPORT	EMBRAPORT EMPRESA BRASILEIRA	S 23°55'18"	W 046°18'56"
BRSSZ		LIBSS	LIBRA TERMINAIS SA	LIBRA TERMINAIS SA	S 23°58'18"	W 046°17'46"
BRSSZ		RODRI	RODRIMAR SA TRANSP EQUIP INDUSTRIAL	RODRIMAR SA TRANSP EQUIP INDUSTRIAL	S 23°55'35"	W 046°20'28"
BRSSZ		SSA	SANTOS BRASIL SA	SANTOS BRASIL SA	S 23°57'45"	W 046°17'36"

Terminal Codes in EDIFACT messages



- UN/LOCODEs and SMDG Terminal Codes are typically used in LOC segments
- Example: Discharge at Terminal "Santos Brasil SA" (SSA) in Santos (BRSSZ)

```
LOC+11+BRSSZ+SSA:TER:306' (D.95B)
LOC+11+BRSSZ+SSA:TERMINALS:306' (D.00B and later)
```

- Element C517.3225 contains the port UN/LOCODE.
- Element C519.3223 contains the Terminal Code.
- Code 306 in element C519.3055 stands for SMDG.
- The usage of SMDG-related codes in elements 1131 and 3055 is explained in <u>SMDG Recommendation #07</u>.

	LOC PLACE/LOCATION IDENTIFICATION		
	Function: To identify a place or a location locations.	and/or	related
010	3227 LOCATION FUNCTION CODE QUALIFIER	М	1 an3
020	C517 LOCATION IDENTIFICATION 3225 Location name code	c c	1 an25
	1131 Code list identification code	c	an17
	3055 Code list responsible agency code	č	
	3224 Location name	C	an25
030	C519 RELATED LOCATION ONE IDENTIFICATION	C	1
	3223 First related location name code	C	an25
	1131 Code list identification code	C	an17
	3055 Code list responsible agency code	C	
	3222 First related location name	C	an70
040	C553 RELATED LOCATION TWO IDENTIFICATION	C	1
	3233 Second related location name code	C	an25
	1131 Code list identification code	C	an17
	3055 Code list responsible agency code	C	
	3232 Second related location name	C	an70
050	5479 RELATION CODE	c	1 an3

Terminal Codes and UN/LOCODEs



- A terminal code on its own is not unique. It is only unique in conjunction with its port UN/LOCODE.
- Example APM Terminals: 11 terminals with the code "APMT"

UNLOCODE	Alternative	Terminal	Terminal Facility Name	Terminal Company Name	Latitude	Longitude
ONLOCODE	UNLOCODEs -T	Code 📲	Terrimal Facility Ivalite	Terminal company Name	(DMS)	(DMS)
CRMOB		APMT	APM TERMINALS MOIN	APM TERMINALS MOIN	N 10°00'33"	W 083°00'15"
DKAAR		APMT	APM TERMINALS AARHUS	APM TERMINALS	N 56°09'15"	E 010°14'29"
GEPTI		APMT	APM TERMINALS POTI	APM TERMINALS POTI SEA PORT	N 42°09'08"	E 041°39'12"
INPPV	INPAV	APMT	APM TERMINALS PIPAVAV	APM TERMINALS (GUJARAT PIPAVAV PORT LTD.)	N 20°55'13"	E 071°30'39"
MAPTM		APMT	APM TERMINALS TANGIER	APM TERMINALS TANGIER	N 35°53'24"	W 005°29'48"
MXLZC		APMT	PM TERMINALS LAZARO CARDENAS TERMINAL DE CONTENEDORES II APM TERMINALS LAZARO CARDENAS S.A. DE C.V. N 1		N 17°58'28"	W 102°10'21"
NGPHC	NGONN	APMT	WEST AFRICA CONTAINER TERMINAL (ONNE PORT COMPLEX)	APM TERMINALS	N 04°42'15"	E 007°09'20"
OMSLL		APMT	APM TERMINALS SALALAH	APM TERMINALS	N 16°56'29"	E 053°59'43"
USLAX		APMT	APM TERMINALS LOS ANGELES PIER 400	APM TERMINALS	N 33°43'53"	W 118°14'55"
USMOB		APMT	APM TERMINALS MOBILE	APM TERMINALS MOBILE	N 30°40'05"	W 088°02'02"
USNYC	USEWR	APMT	APM TERMINALS ELIZABETH	APM TERMINALS ELIZABETH	N 40°39'36"	W 074°08'56"

 Thus, a SMDG Terminal Code is only meaningful in conjunction with its corresponding port UN/LOCODE.





- TCL codes are child codes of UN/LOCODE
- Therefore, the TCL only contains official UN/LOCODEs
- The TCL is aligned with **UN/ECE** Recommendation 16

"Facilities which deliver services in a location identified with a UN/LOCODE can be identified by a code different from the UN/LOCODE, which is considered as a child code of the UN/LOCODE.

These child codes can be built either by adding characters to the UN/LOCODE of a location or created as an autonomous, structured code which provides a link to the UN/LOCODE itself" (Revision 4, 2020 Edition)

- Only UN/LOCODEs that are ports are eligible for the TCL
- These are UN/LOCODEs with the function 1 (=port)





Example: Shanghai



1.6 Column "Function"						
This column contains a 8-digit function classifier code for the location, where:						
0	A value "0" in the first position specifies that the functional use of a location is not known and is to be specified.					
1	Specifies that the location is a Port, as defined in UN/ECE Recommendation 16.					
2	Specifies that the location is a Rail terminal.					
3	Specifies that the location is a Road terminal.					
4	Specifies that the location is an Airport.					
5	Specifies that the location is a Postal exchange office.					
6	Value reserved for multimodal functions, ICDs etc.					
7	Value reserved for fixed transport functions (e.g. oil platform).					
В	Specifies that the location is Border crossing.					

• Two UN/LOCODEs are eligible for the TCL: CNSGH and CNSHG. Which code to use?





- Both may be used: as main/primary and alternative/secondary UN/LOCODE
- Reasons to allow for an alternative UN/LOCODE in the TCL
 - 1. A UN/LOCODE exists for the city and another for the port. Example Shanghai: CNSGH for the city and alternative code CNSHG for the port.
 - 2. A UN/LOCODE exists for the city and another for the terminal. Example Istanbul: TRIST for the city and alternative codes TRKMX, TRMAD, TRMPT for the terminals.
 - 3. A terminal is located in a small town, located close to a metropolis. Example USNYC for the metropolis and alternative codes USEWR and USUYU for the small towns.

UNLOCODE ,T	Alternative UNLOCODEs	Terminal Code	Terminal Facility Name	Terminal Company Name	Latitude (DMS)	Longitude (DMS)
USNYC	USEWR	APMT	APM TERMINALS ELIZABETH	APM TERMINALS ELIZABETH		W 074°08'56"
USNYC		GTC	GCT BAYONNE	GLOBAL CONTAINER TERMINALS	N 40°40'21"	W 074°04'57"
USNYC	USUYU	NYCT	GCT NEW YORK	GLOBAL CONTAINER TERMINALS	N 40°38'27"	W 074°11'21"
USNYC		MAHER	MAHER CONTAINER TERMINAL	MAHER TERMINALS, LLC	N 40°40'59"	W 074°09'14"
USNYC	USEWR	PNCT	PORT NEWARK CONTAINER TERMINAL	PORTS AMERICA	N 40°41'03"	W 074°09'02"

SMDG and UN/CEFACT recommend to use the primary UN/LOCODE



• As per the new Recommendation 16 (Revision 4, 2020 Edition), separate UN/LOCODEs are no longer assigned to port or terminal facilities

"A location with several functions should only have one UN/LOCODE code assigned. Any subset of a location such as airports, rail stations or container terminals should be identified with the appropriate function; a separate UN/LOCODE should not be assigned" (Revision 4, 2020 Edition)





New TCL features

The TCL on the world map





• Standard Google Maps interface, click here to view the map

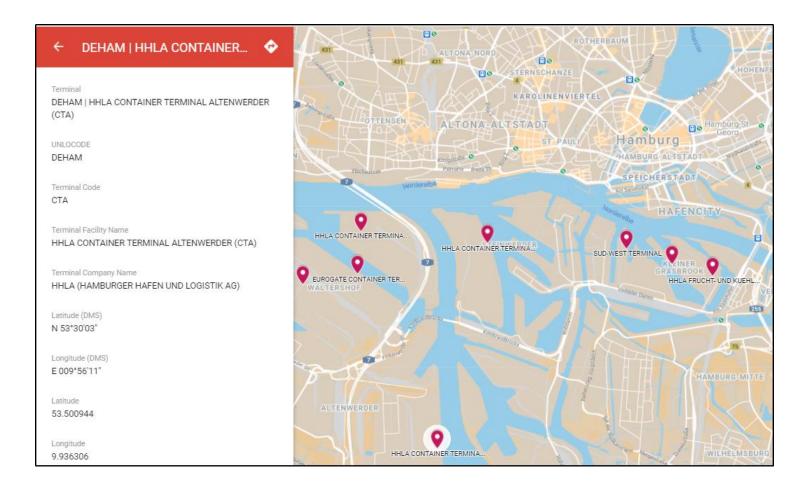


The TCL on the world map





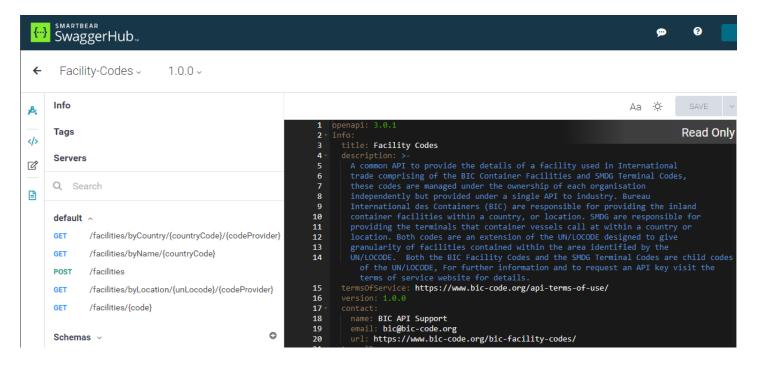
• Terminal details are shown in the left pane when a terminal is selected



API to query the TCL



- BIC implemented a common API to provide BIC Container Facility and SMDG Terminal Facility details
- The API is maintained by BIC; for more information, please refer to https://www.bic-code.org/api-information-page/







Current status and open tasks

Current status



- Ongoing data quality control
 - Verify existing entries (terminal name/company, GPS coordinates, website, address)
 - Remove obsolete and duplicate entries
 - Difficult to verify some entries: no website/address/contacts, ambiguous names, etc.
 - All code requests are required to contain GPS coordinates of a reference point on the terminal close to the pier (degrees-minutes-seconds!)
 - All code requests are required to contain a terminal contact to verify the proposed code and all other details (if the applicant is not the terminal itself).
- Significant data quality improvement since SMDG #74 (Singapore) in 2019.

Date	Total entries	With coordinates	With website	With address
Sep 2019	891	351 (39.4%)	131 (14.7%)	45 (5.1%)
Jan 2021	846	846 (100.0%)	704 (83.2%)	398 (47.0%)

Information content in the TCL





- Same information is provided in the Excel, API and world map (exception: expired facilities appear only in the Excel version)
- The TCL is updated several times per year

2	5 M		G	SMDG Terminal Code List (TCL)						
3				v20210101						
4	www.sn	ndg.org		Click here to view the SMDG Terminal Facilities on the world map						
5										
	UNLOCODE	Alternative	Terminal	Terminal Facility Name	Tourisel Common None	Latitude	Longitude	Last shares	Valid from	Valid until
6	ONLOCODI	UNLOCOD ~	Code ▼	Terminal Facility Name	Terminal Company Name	(DMS)	(DMS)	Last change	valid from _	valid until
408	IQUQR		BGT	BASRA GATEWAY TERMINAL	INTERNATIONAL CONTAINER TERMINAL SERVICES, INC. (ICTSI)	N 30°03'54"	E 047°55'42"		2018-05-25	2020-09-30
409	IQUQR		BGTE	BASRA GATEWAY TERMINAL EAST	INTERNATIONAL CONTAINER TERMINAL SERVICES, INC. (ICTSI)	N 30°03'46"	E 047°56'00"		2020-09-01	
410	IQUQR		BGTW	BASRA GATEWAY TERMINAL WEST	INTERNATIONAL CONTAINER TERMINAL SERVICES, INC. (ICTSI)	N 30°03'35"	E 047°55'38"		2020-09-01	
411	ISREY		SUNDA	KLEPPSBAKKI	FAXAPORTS	N 64°09'01"	W 021°51'15"		2018-09-24	
412	ITAOI		ACT	ADRIATIC CONTAINER TERMINAL	ADRIATIC CONTAINER TERMINAL ANCONA	N 43°37'19"	E 013°29'53"	2020-07-01	2016-04-07	
413	ITAOI	•	ASE	ADRIATIC SERVICES ENTERPRISE ANCONA	ADRIATIC SERVICES ENTERPRISE SRL	N 43°37'16"	E 013°29'45"		2015-06-12	

2		
2		
5		
4		
5		
Terminal Website	Terminal Address	Remarks
6		<u> </u>
408 http://www.ictsiirag.com/default.aspx		Split into two separate entries for the west (existing) and east (new) terminal.
409 http://www.ictsiiraq.com/default.aspx	North Port, Umm Qasr, Basra, Iraq	Berths 25,26,27.
410 http://www.ictsiiraq.com/default.aspx	North Port, Umm Qasr, Basra, Iraq	Berths 19,20,21.
411 https://faxaports.is/	Tryggvagata 17, 101 Reykjavík, Iceland	
412 https://www.actml.it/it/act-home/	Nuova Darsena, 60125 Ancona, Italy	Pier 23 (new dock)
413 https://www.aseterminal.com/		Pier 25

Improving TCL data





How to get involved?

- Everyone in the community is welcome to contribute (terminals, carriers, etc.)
- Apply for new terminal codes if missing in the TCL
 - The request form (Excel) is located at https://smdg.org/documents/smdg-code-list/
 - Fill in the request form and email it to <u>coderequest@smdg.org</u>
- Help to improve data quality by informing us about incorrect/outdated entries
- Use the TCL on the world map as visual aid to locate terminals

Useful links





- Useful links
 - SMDG Terminal Code List
 https://smdg.org/documents/smdg-code-list/smdg-terminal-code-list/
 - Application form for a new SMDG Terminal Code https://smdg.org/documents/smdg-code-list/
 - SMDG Terminal Facilities on the world map https://www.google.com/maps/d/viewer?mid=1nbJI9NkpAayVpSJqy13qJ2xhatclKQJK
 - Usage of Code Lists in EDIFACT Messages maintained by SMDG (Recommendation 7)
 https://smdg.org/documents/smdg-recommendations/
 - SMDG EDIFACT Mapping Implementation Guidelines (MIGs)
 https://smdg.org/documents/edifact-migs-message-implementation-guidelines/
 - API to query the SMDG TCL (provided by BIC)
 https://www.bic-code.org/api-information-page/
 - UN/ECE Recommendation 16 for UN/LOCODEs
 https://unece.org/trade/publications/recommendation-ndeg16-united-nations-code-trade-and-transport-locations





Thank You!