



**60<sup>th</sup> SMDG Meeting in Bilbao**  
**TPFREP new Message version 4.0**

## Information in the TPFREP



## TPFREP - EDIFACT SMDG Message

- The TPFREP Terminal Performance Reporting message 3.0 was developed by SMDG several years ago based on D.00B directory.
- It is sent from the Terminal to each Container Operator after vessel departure from a port.
- Purpose is to transmit terminal productivity data and equipment movement summary, related to the complete vessel.
- The message contains following information items:
  - Vessel timesheet
  - Crane timesheets  
Crane Delays and delay reasons
  - Number of Moves per Crane
  - Number of boxes load / discharge / restow  
broken down by Container operator, full/MT, 20'/40'
  - Number of hatch cover moves
- Based on this information the gross / net productivity by vessel and by crane can be calculated.

## Benefits for the Terminal

- Provide only one standard message to all container operators, versus many individual formats as before.
- To create and send the message electronically saves time and money compared to creating individual reports manually and sending by email.
- For contract negotiations, both partners have the same data source available.

## Benefits for the Shipping Line

- ▶ All TDR in a central database allows structured analyses, e.g. over time series
- ▶ Consistency, easy to compare different terminals.
- ▶ Save manual workload for Port Ops
- ▶ Timeliness
- ▶ Accuracy

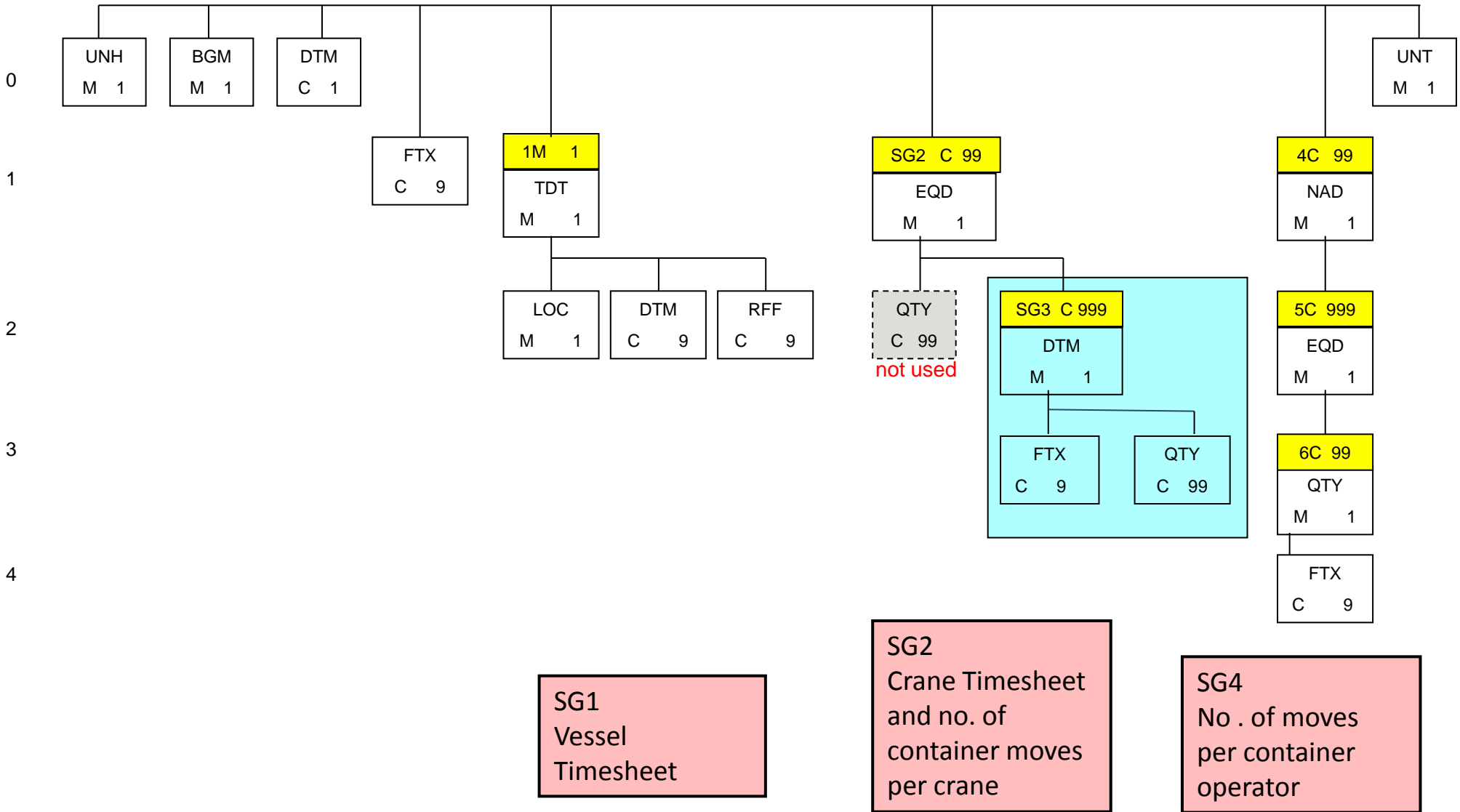
## TPFREP Implementation at Hapag-Lloyd

- TPFREP 3.0 first production rollout was August 2008
- Two reporting channels are offered to the terminals:
  - Preferred option: Send EDIFACT message TPFREP.
  - Alternative: Send standardized Excel template, developed by Hapag-Lloyd, with the same data content as the TPFREP.
- As per October 2012, there are
  - 67** terminals reporting the TPFREP 3.0 message, *plus*
  - 167** terminals reporting the Excel template - we keep pushing these towards EDI.

## Experiences

- Hapag has been the first shipping line that implemented this message world wide
- The Excel template causes more handling errors than the EDI message.
- The SMDG version 3.0 includes segment group /segments with new code/qualifiers in addition to the official UN/EDIFACT directory.
- Some terminals were hesitating to implement version 3.0, which was not officially authorized by UN/CEFACT.
- Therefore the TPFREP Subgroup of the SMDG developed a new version **TPFREP 4.0**  
>> **It was published on SMDG website in October 2012** <<  
Summary of Changes :
  - Improved message structure.
  - All temporary qualifiers and codes replaced by codes officially approved by UN/CEFACT.
  - Out of Gauge and Temperature Controlled cargo can be reported separately.
  - Breakbulk cargo per Operator can be reported.

# New TPFREP 4.0 based on D.11B



## New users

- **Hambug-Süd and CMA CGM** have started to implement the TPFREP message in their organization.  
With more shipping lines using the TPFREP, the acceptance of the message will further improve.

## New requirements

- Separate reporting of **DG** containers
- Separate Reporting of **Twin Lifts**
- Additional Date/Time items for vessel timesheet in the message header.

## Next Steps

- Enhance the Excel reporting format with the additional data elements from version 4.0 (Reefer, Breakbulk/OOG)
- The working group will discuss the new requirements, find solutions, possibly include further requirements from the actual usage of version 4.0 and eventually develop a message version 4.1



# Report example: Time Series Analysis

## Terminal Productivity (OP0011)

Technical Name: \_op0011\_r\_terminal\_productivity

Selected Filters:  
 Terminal Locationcode: HKHKG, HONG KONG  
 Terminal Matchcode: MODERN061  
 Operative SSY: EUC / Europe - Asia Loop C  
 Sailing Date: Year Month from Jul 2011 to Sep 2011

Sorted By Column Berthed

COMPASS  
 Data from Oct 6, 2011 16:05 UTC

## Terminal Productivity (OP0011)

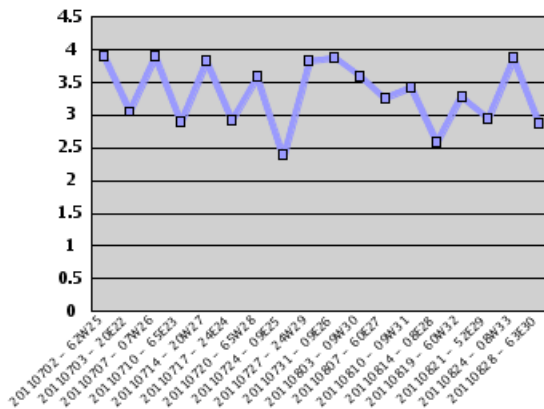
Hapag-Lloyd  
 Created on October 7, 2011

Vessel Code	Voyage Number	Berthed	Late / Early (hrs)	Sailed	Avg Cranes per hour	Berthed Hours	Crane Gross Moves per hour	Gross Working Time	Hatch Cover Moves	Net Working Time	Restow Moves	Total Container Moves	Total Moves	Vessel Gross Moves per hour
<a href="#">OLB</a>	62W25	2011-07-01 12:10	65.2	2011-07-02 00:18	3.9	12.1	27.9	36.7	40	34.8	0	984	1,024	84.4
<a href="#">BRX</a>	20E22	2011-07-03 14:00	10.0	2011-07-03 23:42	3.1	9.7	25.0	24.8	20	23.7	0	599	619	63.8
<a href="#">OLU</a>	07W26	2011-07-07 07:38	36.6	2011-07-07 20:14	3.9	12.6	28.5	40.6	64	37.8	18	1,093	1,157	91.8
<a href="#">OHB</a>	65E23	2011-07-10 12:40	8.7	2011-07-10 22:35	2.9	9.9	29.0	26.8	40	24.9	15	736	776	78.3
<a href="#">BRX</a>	20W27	2011-07-14 03:25	32.4	2011-07-14 16:06	3.8	12.7	29.9	38.4	64	35.5	10	1,084	1,148	90.5
<a href="#">OSN</a>	24E24	2011-07-17 11:56	7.9	2011-07-17 22:05	2.9	10.2	28.2	25.7	32	24.1	113	693	725	71.4
<a href="#">OHB</a>	65W28	2011-07-20 08:25	13.4	2011-07-20 19:36	3.6	11.2	30.6	32.4	44	30.1	0	947	991	88.6
<a href="#">OWA</a>	09E25	2011-07-24 04:15	0.3	2011-07-24 12:42	2.4	8.5	8.5	75.6	44	73.5	0	595	639	75.6
<a href="#">OSN</a>	24W29	2011-07-27 07:31	12.5	2011-07-27 19:07	3.8	11.6	27.5	31.1	52	28.7	0	803	855	73.7
<a href="#">OSL</a>	09E26	2011-07-31 03:20	-0.7	2011-07-31 13:15	3.9	9.9	29.2	33.4	80	30.0	42	894	974	98.2
<a href="#">OWA</a>	09W30	2011-08-02 18:10	-0.8	2011-08-03 07:06	3.6	12.9	26.0	41.1	60	38.4	8	1,010	1,070	82.7
<a href="#">ORT</a>	60E27	2011-08-07 07:41	3.7	2011-08-07 18:36	3.3	10.9	29.7	23.5	68	20.7	0	630	698	63.9
<a href="#">OSL</a>	09W31	2011-08-09 17:59	-1.0	2011-08-10 07:07	3.4	13.1	26.2	39.4	60	36.9	2	974	1,034	78.7

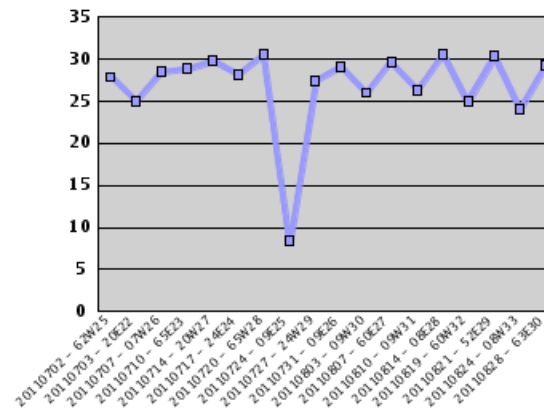
# Report example: Time Series Analysis

Graphics make the analysis very easy to pin point changes and target action. In the previous format this was not possible.

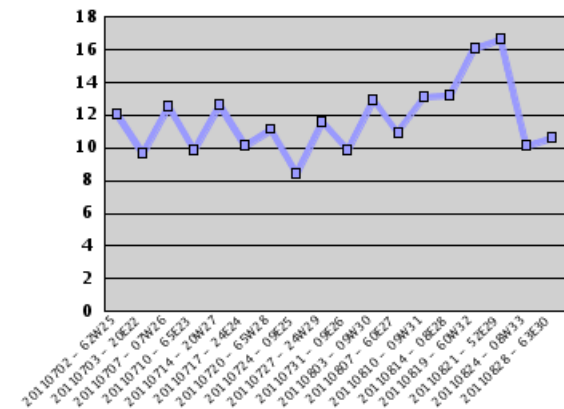
Avg Cranes per hour



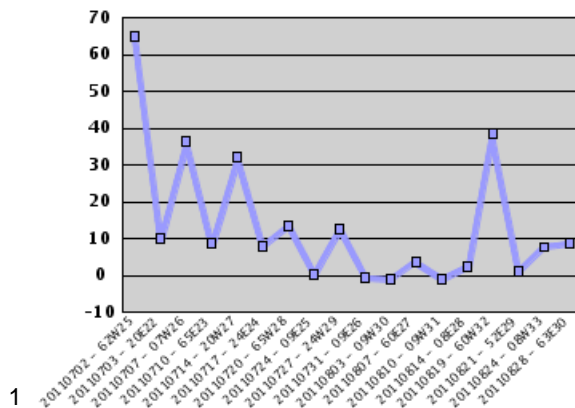
Crane Gross Moves per hour



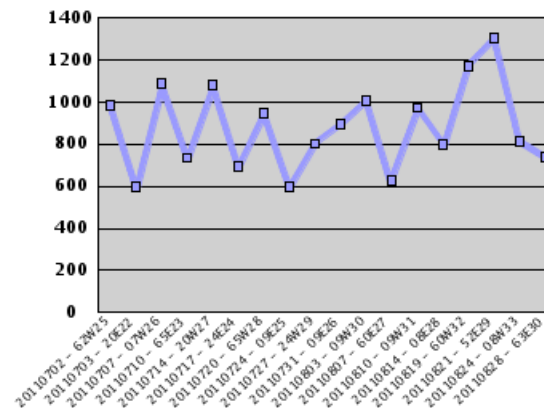
Berthed Hours



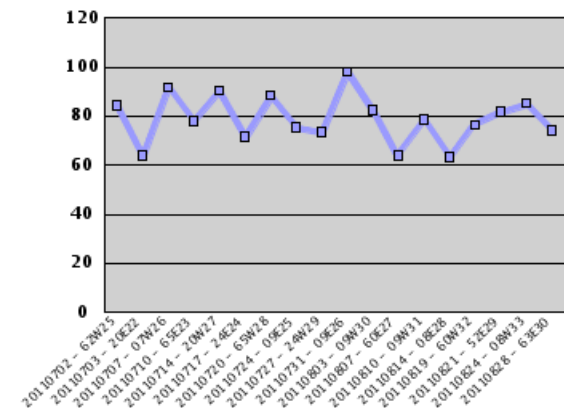
Late / Early (hrs)



Total Container Moves



Vessel Gross Moves per hour



# Report example: Summary

## Multiple Terminals / 3 months summary

	A	B	C	D	E	F	G	H	I	J
1	<b>Terminal Volume Summary (OP0012)</b>									
2	Sailing Date: Month from Jul 2011 to Sep 2011									
3	Terminal Subregion: AAN / OCEANIA									
4	Terminal Area Code	Terminal Location Code	Ship System Group Code	Discharged Total	Loaded Total	Restow Discharge and Reload	Container Moves	Total TEU	Hatch Cover Moves	Total Moves
5	AANAU	AUADL	EOG	5.898	5.889	167	11.954	15.004	0	11.954
6			IRO	3.527	3.419	54	7.000	9.316	0	7.000
7			ONG	2.859	3.051	7	5.917	8.225	0	5.917
8		AUBNE	IRO	16.392	20.541	492	37.425	59.430	1.060	38.485
9			IRS	11.781	7.888	123	19.792	28.493	412	20.204
10		AUFRE	EOG	1.286	1.134	136	2.556	3.614	71	2.627
11			IRA	417	541	0	958	1.395	19	977
12			IRO	2.451	2.678	61	5.190	7.936	104	5.294
13		AUMEL	EOG	9.318	9.938	289	19.545	30.346	800	20.345
14			IRO	43.043	40.592	421	84.067	127.443	2.268	86.335
15			ONG	16.515	12.597	74	29.186	44.620	909	30.095
16		AUSYD	EOG	7.186	5.994	256	13.436	18.693	408	13.844
17			IRA	782	751	52	1.585	2.480	36	1.621
18			IRO	33.850	34.792	692	69.340	107.916	1.689	71.029
19			IRS	5.216	3.962	20	9.198	12.174	180	9.378
20			ONG	14.915	13.082	504	28.501	44.236	678	29.179
21	AANNZ	NZAKL	IRA	1.936	3.041	4	4.981	7.229	0	4.981
22			IRS	39.764	21.196	504	61.464	86.554	1.495	62.959
23			ONG	15.608	18.080	249	33.937	48.702	863	34.800
24		NZNPE	IRS	5.947	6.435	97	12.479	17.894	588	13.067
25			ONG	2.186	2.877	51	5.114	7.542	214	5.328
26		NZPOE	IRS	170	366	0	536	790	0	536
27			ONG	127	197	0	324	383	0	324
28		NZTRG	IRA	2.377	1.240	42	3.659	5.134	54	3.713
29			IRS	8.473	20.407	75	28.955	41.450	1.018	29.973
30			ONG	14.671	10.654	59	25.384	37.863	846	26.230
31		NZWLG	IRS	219	179	104	502	732	224	726
32	AANPI	FJSUV	ONG	624	396	0	1.020	1.305	12	1.032
33		PFPT	ONG	1.006	1.315	8	2.329	3.016	56	2.385

Thank You

Thank you very much

