63rd session of the UNECE Working Party on Inland Water Transport INTEGRATION OF INLAND WATER TRANSPORT IN MULTIMODAL TRANSPORT AND LOGISTICS CHAINS

Geneva, 6 Nov. 2019

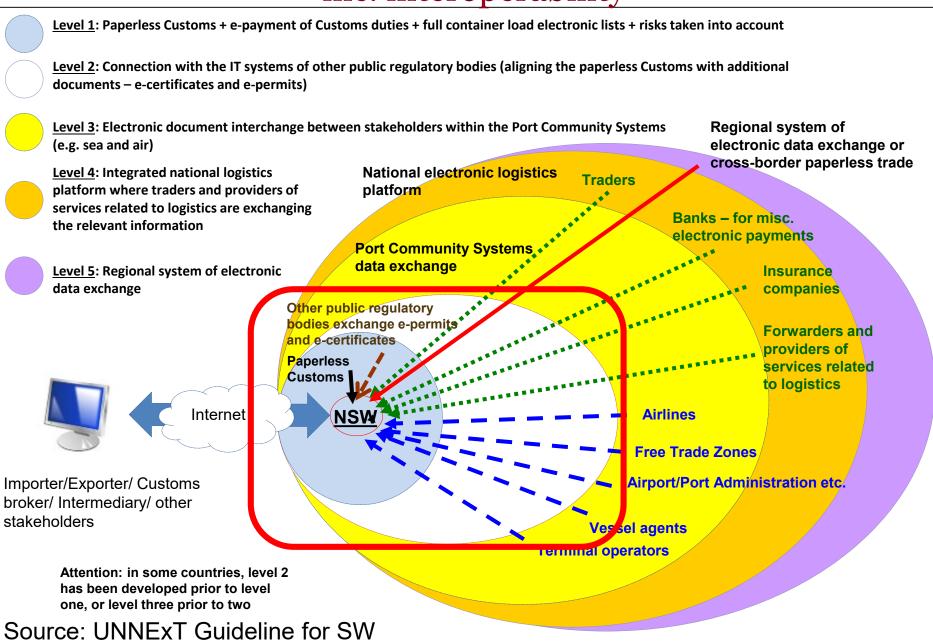
A Standard Set of Data and Transport Documents in the context of Single Window and Data Pipeline

Mario Apostolov, Regional Adviser,
UNECE Economic Cooperation and Trade Division,
mario.apostolov@unece.org



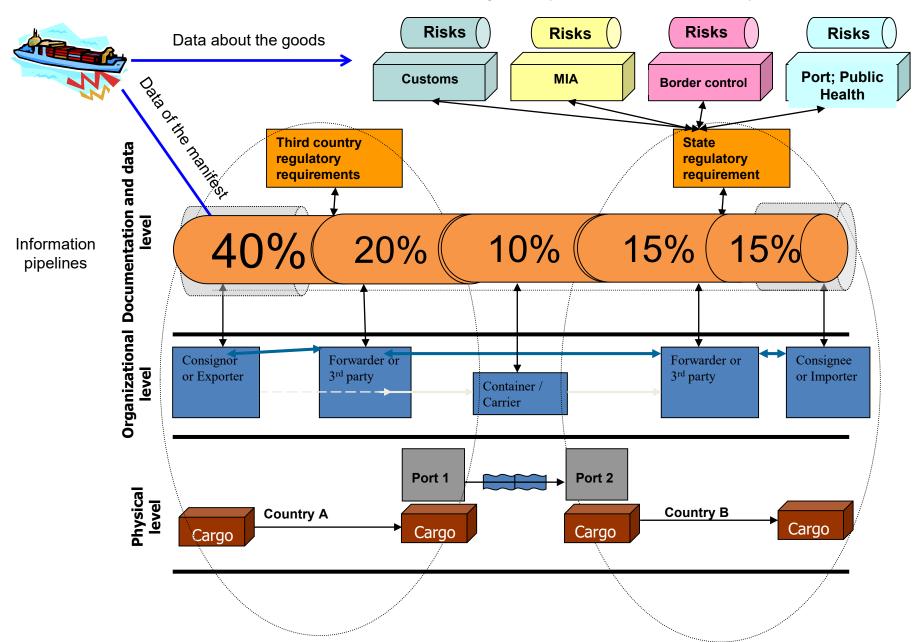
- Traders fill in appr. 40 documents to 40 different agencies with often repeated data
- The aim of trade facilitation is to reduce red tape
- Reusing the available information
- The information on trade flows comes from business (incl. transport)
- →An idea to create a set of transport documents or a common data set for multimodal exchange, considering the Viking Corridor (Odessa – Klaipeda: Ukraine-Belarus-Lithuania)
- Prepare a standardised data set aligned with the UN/CEFACT Multimodal Transport Reference Data Model (MMT RDM) and the European Union Customs Data Model (EUCDM).

Single Window planning algorithm inc. interoperability



Related concepts: data pipeline

Future Customs and International trade systems (David Hesketh and others)





Seamless multimodal supply chain

	Shipper, forwarder						
Shipment – preparat							
Bill of Lading IMO/FAL forms		Bill of Lading eCMR, etc.		eCMR eTIR, TIR carnet	Transport operator		
Invoice,	pa	ckage list, certificate	of	origin	Freight forwarder		
	Community System	A Shared					
Trip 1: sea		Trip 2: inland water transport		Trip 3: road	Skipper, driver		
Ship	t Cor	Ship		Truck			
Sea	Port	Country 1, 2		Country 2	Regulatory agency		



Seamless multimodal supply chain

	Supply							Shipper, forwarder			
	Shipment – prepara										
	Bill of Lading IMO/FAL forms		BoL, eCMR	CIN SMG	•		eCMR eTIR, TIR carnet	Transport operator			
	Invoice	e, p	package list, certificate of origin					Freight forwarder			
		System	<u> </u>								
	Trip 1: sea	Community System	Trip 2: inland water	Trip 3: rail			Trip 4: road	Skipper, driver			
	Ship	Port Co	Ship				Truck				
Sea Country 1, 2				L, 2	·		Country 2	Regulatory agency			

2	c				
NCO	0	UNTDED	Dill of Latin		
No	UNTD	DEFINITION	Bill of lading		
	ED		operate procurations process recommendations		
001	1001	Code specifying the	The section of the contract of	Invoice	Customs documents:
		name of a document	Mariestande	11140100	
		such as 352 for	MO/FAL		Export declaration (EX-1);
		Proforma invoice,	(in in another the type it is taken from (in the type) it is taken from (in the type) it is taken from (in the type)		· · · · · · · · · · · · · · · · · · ·
		380 for Commercial	forms		Transit declaration (T-1);
071,	3336	invoice. Name of the party	The state of the s		 Accompanying administrative
239 -	3330	consigning goods as		Chasification	
245		stipulated in the		Specification;	documents
(add		transport contract by	Denies Designation	•	TID Cornet
ress		the party ordering	CIM, CIM/SMGS		•TIR Carnet;
072	3337	transport	CIIVI, CIIVI/SIVIGS		ATA carnet;
072	333/	To identify the party consigning goods as	and CMCC	7	•
		stipulated in the	and SMGS	7	 Finantial guarantee (for transit);
		transport contract by		Packing list;	
		the party ordering	consignment notes		
	3446	transport			
	3440	To identify a number assigned to a party			
		by a tax authority.			_
		,			
N/A	N/A	N/A			Other regulatory agency
N/A	N/A	N/A	Wagon list		Other regulatory agency
N/A	N/A	N/A	Wagon list		Other regulatory agency certificates:
N/A	N/A	N/A	Wagon list		certificates:
			Wagon list	Proforma invoice	certificates:
	N/A	The number of	Wagon list	Proforma invoice	certificates:
			Wagon list	Proforma invoice	certificates: • Certificate of Origin; • Certificate of compliance;
		The number of loading lists,	Wagon list	Proforma invoice	certificates:
		The number of loading lists, manifests or similar			certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate;
		The number of loading lists, manifests or similar			certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; e; Veterinary certificate;
013	1166	The number of loading lists, manifests or similar documents	Wagon list CMR		certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; e; Veterinary certificate;
013	1166	The number of loading lists, manifests or similar documents			certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; •;Veterinary certificate; • Hygiene certificate;
013	1166	The number of loading lists, manifests or similar documents Count of the total number of goods items within a	JCMR The second	uality certificat	certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; e; Veterinary certificate;
013	1166	The number of loading lists, manifests or similar documents Count of the total number of goods	JCMR The second	uality certificat	certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; •;Veterinary certificate; • Hygiene certificate; • Fire safety certificate;
013	1166	The number of loading lists, manifests or similar documents Count of the total number of goods items within a			certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
013	1166	The number of loading lists, manifests or similar documents Count of the total number of goods items within a	JCMR The second	uality certificat	certificates: • Certificate of Origin; • Certificate of compliance; • Carantine certificate; •;Veterinary certificate; • Hygiene certificate; • Fire safety certificate;
013	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment.	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
013	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment.	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
013	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment. Count of total number of packages referred	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
013	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment. Count of total number of packages referred to as one	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
013	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment. Count of total number of packages referred	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary
228	7240	The number of loading lists, manifests or similar documents Count of the total number of goods items within a consignment. Count of total number of packages referred to as one consignment	JCMR The second	uality certificat	certificates: Certificate of Origin; Certificate of compliance; Carantine certificate; Ce;Veterinary certificate; Hygiene certificate; Fire safety certificate; Sanitary and phytosanitary

Multimodal corridor approach

General transport documents:

- SMGS, CIM/SMGS or CIM Consignment Note;
- CIM / SMGS Wagon List (Appendix 7.2 to point 20)
- Container List (Appendix 7.4 to point 20)
- Handover sheet (Appendix 3 to SI to SMGS) https://www.cit-rail.org
- CMR, (eCMR);
- Air waybill (eAir waybill);
- Bill of Lading B/L (e B/L)) and

Additional accompanying documents and

- Invoice:
- Specification;
- Packing list;
- Proforma invoice:
- Certificate of Quality.
- Shipping order (export

Customs Documes

- Export Declar
- Transit De
- Admir

OGA

- Certil are of Safety or Compliance;
- Quarantine Certificate;
- Veterinary Certificate;
- Hygienic Certificate;
- Fire Safety Certificate;
- Sanitary and Phytosanitary Certificates.

Align data in these documents with unico data in these documents with unico data in these procedure and in the second and the lien data in these documents with unitarnodel



UN/CEFACT eCMR

multimodal transport semantic data model (MMTDM) (subset of Buy-Ship-Pay DM)

Multimodal transport (MMT) basic message structure

eCMR message model

XML syntax of eCMR schema

UN/CEFACT Cross- industry Invoice (CII)

Supply chain semantic data model (Buy-ship-pay) (subset of Buy-Ship-Pay DM)

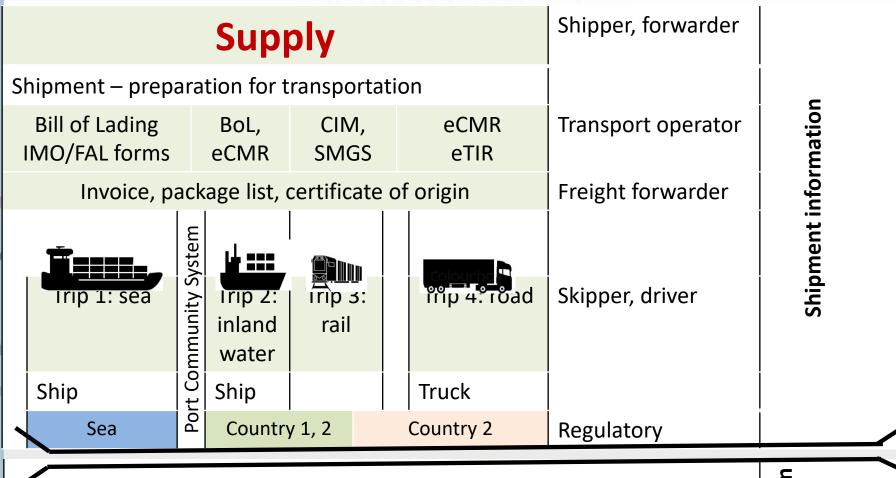
basic message structure in the supply chain (Buy-Ship-Pay)

Invoice message model

XML syntax of invoice schema

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Seamless multimodal supply chain



Export and import declarations, transit documents

Information for goods control



New FAL forms, effective from 1 January 2018

- IMO General Declaration (FAL form 1)
- Cargo Declaration (FAL form 2)
- Ship's Stores Declaration (FAL form 3)
- Crew's Effects Declaration (FAL form 4)
- Crew List (FAL form 5)
- Passenger List (FAL form 6)
- Dangerous Goods (FAL form 7)



Ε

FACILITATION COMMITTEE 37th session Agenda Item 5 and 7 (part) FAL 37/WP.6/Add.1 8 September 2011 Original: ENGLISH

DISCLAIMER

As at its date of issue, this document, in whole or in part, is subject to consideration by the IMO organ to which it has been submitted. Accordingly, its contents are subject to approval and amendment of a substantive and drafting nature, which may be agreed after that date.

ELECTRONIC MEANS FOR THE CLEARANCE OF SHIPS

Report of the Working Group

Attached are annexes 1 to 3" to the report of the Working Group on Electronic Means for the Clearance of Ships (FAL 37/WP.6). TRADE FACILITATION GUIDE

GENERAL DECLARATION

(IMO FAL Form 1)



018



- <u>IMO G</u>
- Cargo
- Ship's
- Crew's
- Crew L
- Passer
- Dange

G	1.1 Name and type of ship			1.2 IMO number					
<u> </u>	1.3 Call sign			1.4 Voyage number					
	Port of arrival/departure			Date and time of arrival/departure					
<u>S</u>	State of ship State of ship State of ship		6. Last port of call/Next port of call						
<u>'s</u>	7. Certificate of registry (Port; date; number)		8. N	lame and c	onta	ct details of ship's agent			
	9. Gross tonnage 10. Net tonnage								

11. Brief particulars of voyage (previous and subsequent ports of call; underline where remaining cargo will be

12. Brief description of the cargo

discharged)

13. Number of crew 14. Number of passengers 15. Remarks Attached documents (indicate number of copies) 16. Cargo Declaration 17. Ship's Stores Declaration 18. Crew List 19. Passenger List 20. The ship's requirements in terms of waste and residue reception facilities 21. Crew's Effects Declaration (only 22. Maritime Declaration of on arrival) Health (only on arrival)

Data Element matrix for FAL Forms 1 through 7

And Recommended Exisiting message Implementation Guidelines (MIG)										renomic for Europe
(Comments from Japan)										
Data element	ISO7372 (UNTDED) 2005	TDID (05B)	Form 1	Form 2	Form 3	Form 4	Form 5	Form 6	Form 7	
Vessel name	8212 (Transport Means. Identifier.Text)	8212 in TDT	X	X	X	Х	Х	X	Х	
Vessel type	8179 (Transport Means. Type.Code)	8179 in TDT	Χ	Χ	Χ	Χ	Χ	Χ		
IMO number	8213 (Transport Means. Identifier)	8213/1131/305 5 in TDT	X	X	X	X	X	X	Х	
Call sign	8213 (Transport Means. Identifier)	1153/1154 in RFF	Х	Х			Х	X	Х	
Flag state	8453 (Transport Means. Registration Nationality.Identifier)	8453 in TDT	Х	X	Х		Х	X	Х	
Registry	1001 (Document. Type.Code)	1001 in DOC	Χ							
Registry date	2001 (Date. Date.Date Time)	2305/2380/237 9 in DTM	Х							
Registry number	1004 (Document. Identifier)	1001/1004 in DOC	Х							
Registry location	3411 (Document. Issue Location.Identifier)	3227/3225/322 4 in LOC	Х							
Gross tonnage	6300 (Transport Means. Gross Weight.Measure)	6311/6313/641 1/ 6314 in MEA	Х							
Net tonnage	6302 (Transport Means. Net Weight.Measure)	6311/6313/641 1/ 6314 in MEA	Х							
Name of master	3036 (Party. Name.Text) You may wish to put here 3408 "Name of the Master of the vessel	3035/3036 in NAD	Х						Х	
Name of agent	3036 (Party. Name.Text)	3035/3036 in NAD	Х						Х	
Contact for agent	3412 (Contact. Name.Text)	3035/3036 in NAD	Х							
Description of cargo	7004 (Consignment. Summary Description.Text)		Х							
Previous ports of call	3224 (Location. Name.Text)	3227/3225/322 4 in TDT	Х							
Subsequent ports of call	3224 (Location. Name.Text)	3227/3225/322 4 in TDT	Х							
Number of crew	6106 (Crew. Quantity)	6063/6060 in QTY	Х		Х					



UN/CEFACT Multimodal Transport Reference Data Model

The advantage of using the UN/CEFACT MMTRDM is that:
The MMT model already includes more than 90% of the information used for B2A and B2B interoperability
The MMTRDM is aligned to the WCO Data Model

- The model is supported by a neutral organization with a well-documented management, in which thematic experts can submit proposals to change specifications with the support of 3 national representatives.
- From the logistics point of view, at least 50-70% of the information is available from the beginning in the supply chain



Legal aspects of data sharing for multimodal transport

Government agencies and trading partners previously accepted paper forms, so regulatory frameworks corresponded to these requirements. The regulatory framework needs to be reviewed.

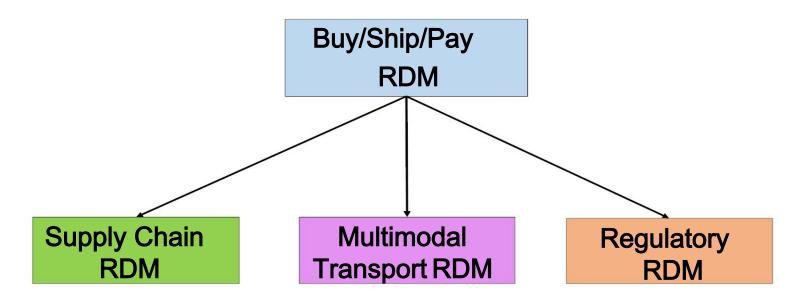
Some points on using datasets in a legal perspective:

- Should be benefit for all stakeholders;
- Availability, accuracy and completeness of data should be asured;
- Possibility for multi-purpose use, similar to the use of documents, data sets should be admissible in courts;
- Possibility for seamless use of data across transport modes, provided the existence of a relevant agreement between countries;
- Involve international organizations managing certificates and other forms from which data are taken

Benefits of UN/CEFACT Semantic Models

- The support for information sharing, such as enabled by data pipelines, with the timely capture of quality data from original data sources ensuring supply chain visibility
- Reduction of administrative burden by efficient reuse of data shared within the BUY SHIP PAYdomain model
- Standardized data exchange structures, based on common Master data exchange structure and independent of exchange syntax
- Common basis for implementing in chosen data exchange syntax(es)

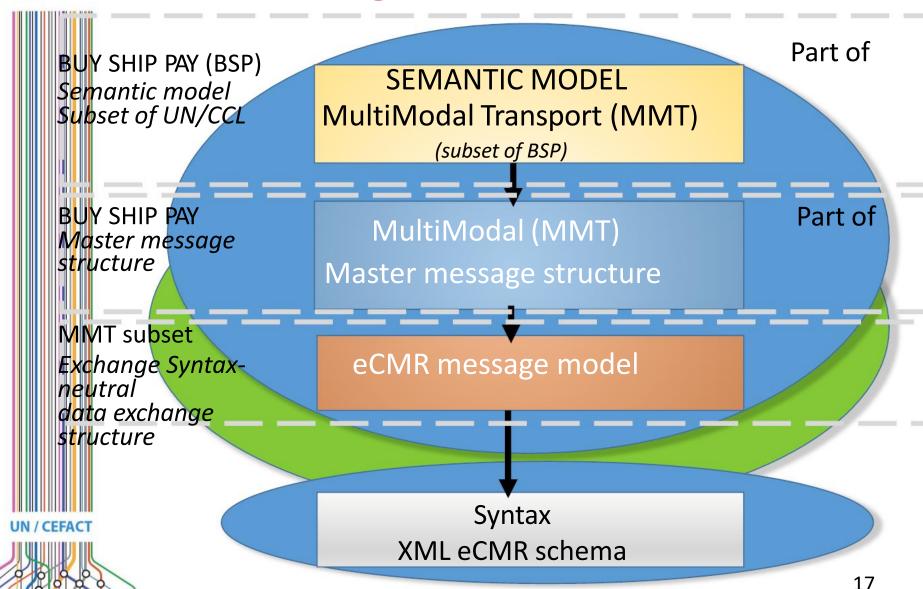
UN/CEFACT International Supply Chain Reference Data Model Family



13



Example: UN/CEFACT electronic Road Consignment Note (eCMR)



mario.apostolov@unece.org