

Interoperability for data and document exchange in multimodal transport aligned to UN standards.

UN project to respond to the COVID-19 crisis

ECE segment: multimodal data exchange harmonization using UN (UN/CEFACT) standards and Multimodal Transport Reference Data Model

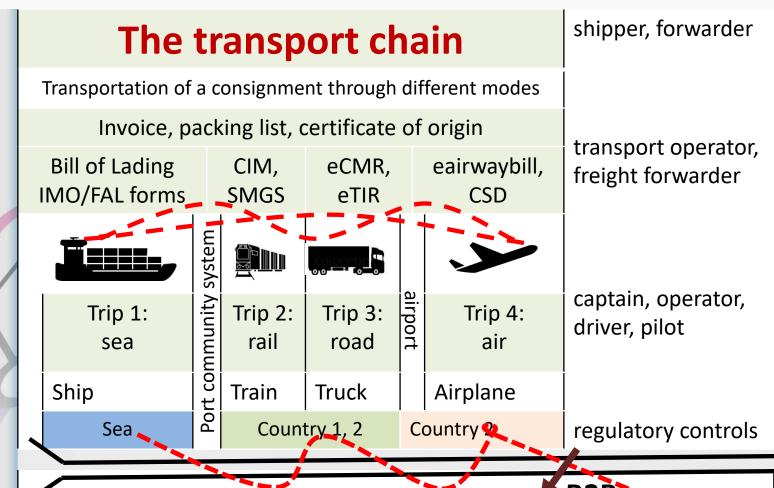
Upgrading existing and developing data exchange standards for key documents accompanying cargo in different modes of transport

Based on
UN/CEFACT
Multimodal
Transport Reference
Data Model

Pilot applications: e.g. in a digital multimodal transport corridor or documents (FIATA B/L, air cargo, IWT)

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Seamless multimodal supply chain



Consignment information

To be fed into regulatory Single Window and other systems processing export and import declarations, transit documents

Information for goods control

Ready standards or standards under preparation	Key documents accompanying goods (B2B)
1. Standardized data exchanges (executive guide; business requirement specification; business name structure; subset; CCL structure; XLS guideline structure; XSD schema; UML diagram; HTML index, using as a model the e-CMR standard) www.unece.org/uncefact/mainstandards.html , already prepared for the following documents:	3. Standardized data exchanges to support cross-modal cargo transfers
eCMR Cross Industry Invoice Cross Industry Delivery Cross Industry Catalogue Cross Industry Quotation Cross Industry Remittance Advice Cross Industry Scheduling Cross Industry Ordering Process Material Safety Data Sheet Details (MSDS) Contract Financial Execution Management Market Research Information Verified Gross Mass (VERMAS) documents International Forwarding and Transfer documents Smart container information A number of agricultural certificates, accounting and other documents These standards you can find at www.unece.org/trade/uncefact/mainstandards.html	 Inland water transport contract document: IWT "Bill of Lading"; CMNI consignment note; etc. Maritime waybill. CIM/SMGS and SMGS Consignment Note; CIM/SMGS Wagon List (+ Commercial Act, etc.) eCERT (sanitary-phytosanitary certificates and basis for other certificates): aligned to the Buy-Ship-Pay Reference Data Model
2. Standardized data exchanges published in October 2020, making information already in the MMT-RDM more easily discoverable	4. Air cargo and dangerous goods documents:
 Provisional booking Firm booking Booking confirmation Shipping instructions Waybill Status report Status request Packing list RASFF (Rapid Alert for Security of Food and Feed) (published at www.unttc.org and www.unece.org/trade/uncefact/mainstandards.html) 	 airwaybill, dangerous goods declaration, and consignment security declaration FIATA multimodal Bill of Lading +
Common foundation for all multimodal standards & reference data models – Stake documents and legal frameworks. EU's	holder agencies retain control over their



Matrix: data mapping for CIM/SMGS, eCMR, eTIR, eFIATA BL, AWB...

1 2	2 3	4 5 6 7	Α	C	D	E	F	G		K	
116	2 3	1	Level		ммт	eCMR Road Consignment No	Maritime BoL	CIM-SMGS Rail Consignment Not	Inland Waterway BoL	FIATA BoL	Air Waybi
	+	17	′5 2	Carrier Acceptance Location	Х	X	X	X	X	Х	Х
	+	18	0 2	Consignee Receipt Location	X	X	X		X	X	X
	+	18	2	Loading Baseport Location	X					X	~
	+	18	7 2	Unloading Baseport Location	X					X	
	+	19	0 2	Final Destination Location	X		X	X			X
	+	19	14 2	Transport Contract Document	X		X		X		X
	+	19	7 2	Handling Instructions	X	X		X			X
	+	20	5 2	Loading Instructions	X	X					X
	_	20	7 2	Included Consignment Item	X	X	X	X	X	X	X
		. 20	8 3	ID				X			X
		. 20	9 3	Sequence Number	Х	X	X	X			X
		. 21	0 3	Goods Type Code	Х	X	X	X	X	X	X
		. 21	1 3	Declared Value For Carriage Amount	Х					Х	X
		. 21	2 3	Insurance Value Amount	Х					X	X
		. 21	3 3	Invoice Amount	Х	X		X			X
		. 21	4 3	Gross Weight	Х	X	X	X	X	X	X X
		. 21	5 3	Gross Volume	X	X	X		X	X	X
		. 21	6 3	Information	Х		X		Х		Ŷ
		. 21	7 3	Tariff Quantity	Х	Х					Ŷ
		. 21	8 3	Trade Line Item Quantity				X			X
		. 21	9 3	Global ID	X	Х					X
		+ 22	0 3	Cargo Nature Identification	Х	X				X	х
		- 22	3	Transport Dangerous Goods	X	Х	X	X	X	X	X
		T · 22	4 4	UNDG ID	Х	X	X	X	X	X	X
		. 22	.5 4	Regulation Code	X	Х	X	X	X		X
		. 22	6 4	Regulation Name				X			X
		. 22	7 4	Technical Name	х	Х		X			X
		. 22		Information	Х		X	X	Х		X
		. 22		EMS ID	X		X	X	X		
		. 23		TREM ID	X			X			

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Similar mapping matrix and a data set can and will be developed for Dangerous Goods Declarations in the five transport modes



Thanks! Further Information

Standards and reports available on UNTTC.org project and UN/CEFACT pages.

On the project web site (<u>unttc.org</u>), we upload information on the standards and tools at https://unttc.org/stream/electronic-trade-and-transport-documents-and-data

A streamlined web presentation of the UN/CEFACT standards can be found at https://unece.org/trade/uncefact/standards

Information on the UN/CEFACT projects:

https://uncefact.unece.org/display/uncefactpublic/Transport+Modal+Views+of+MMT

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