

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

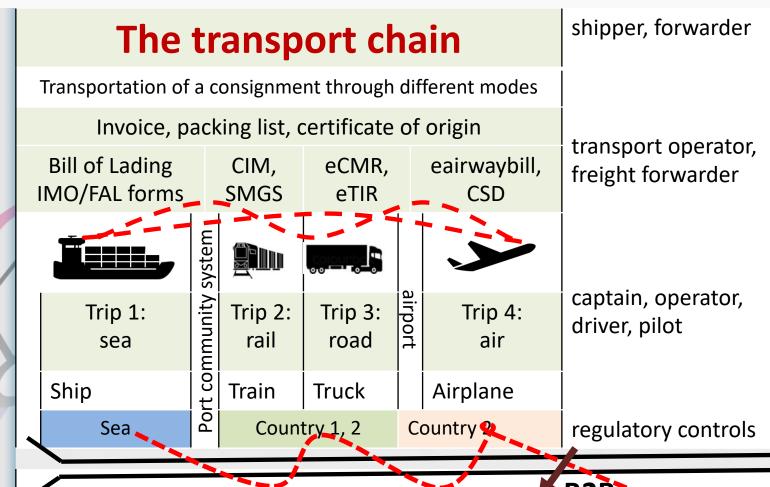
Upgrading existing and developing data exchange standards for key documents accompanying cargo in different modes of transport

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)

Mario Apostolov, Regional Advisor Economic Cooperation and Trade Division, UNECE

Seamless multimodal supply chain



Consignment information

To be fed into regulatory Single Window and other systems processing

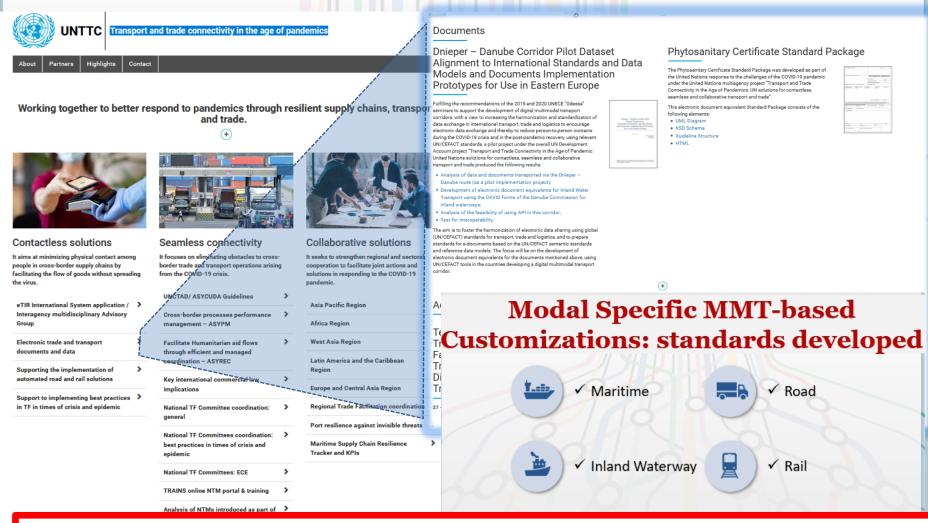
systems processing export and import declarations, transit documents

Information for goods control

Ready standards or standards under preparation	Key documents accompanying goods (B2B)
Standardized data exchanges (executive guide; business requirement specification; business name structure; subset; CCL structure; XLS guideline	3. Standardized data exchanges to support
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	cross-modal cargo transfers
following documents:	
eCMR Cross Industry Invoice	 Inland water transport contract
Cross Industry Delivery	document: IWT "Bill of Lading"; CMNI
 Cross Industry Catalogue Cross Industry Quotation 	consignment note; etc.
Cross Industry Remittance Advice	·
Cross Industry Scheduling Cross Industry Coderior Process	Maritime waybill.
 Cross Industry Ordering Process Material Safety Data Sheet Details (MSDS) 	 CIM/SMGS and SMGS Consignment Note;
Contract Financial Execution Management	 CIM/SMGS Wagon List (+ Commercial
 Market Research Information Verified Gross Mass (VERMAS) documents 	Act, etc.)
International Forwarding and Transfer documents	
 Smart container information A number of agricultural certificates, accounting and other documents 	eCERT (sanitary-phytosanitary
These standards you can find at <u>www.unece.org/trade/uncefact/mainstandards.html</u>	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
alleady in the minit-rom more easily discoverable	documents:
Provisional booking Firm booking	airwaybill,
Booking confirmation	 dangerous goods declaration, and
Shipping instructionsWaybill	
Status report	 consignment security declaration
Status request Packing list	
RASFF (Rapid Alert for Security of Food and Feed)	FIATA multimodal Bill of Lading +
(published at <u>www.unttc.org</u> and www.unece.org/trade/uncefact/mainstandards.html)	1 17 (17 (Trialtiffoddi Bill of Edding
Common foundation for all multimodal data & e-docs based on UN/CEFACT	
standards & reference data models – Stakeholder agencies retain control over their	
documents and legal frameworks. EU's eFTI Regulation uses MMT RDM	

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Digitalization of air cargo transport information as part of interoperability for multimodal data UNDA project: unttc.org web site



information about the standards and tools:

https://unttc.org/stream/electronic-trade-and-transport-documents-and-data

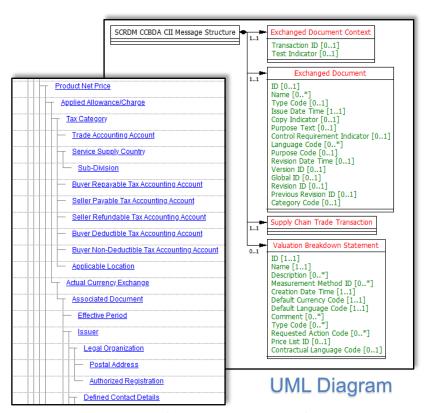
UN/CEFACT Streamlined Standards

Transport and Logistics

Multi-Modal Transport Reference Data Model (MMT-RDM)

- White Paper on RDM English Prench Russian
- RDM Guidelines
- BRS
- Executive Guide on RDM English Perench Russian Perench Russian Perench Russian Perench Russian Perench Russian Russi
- Structure Report / Data Elements
- XSD Schema
- UML Diagram 🗓
- HTML index





Message structure (on HTML index)

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For example:

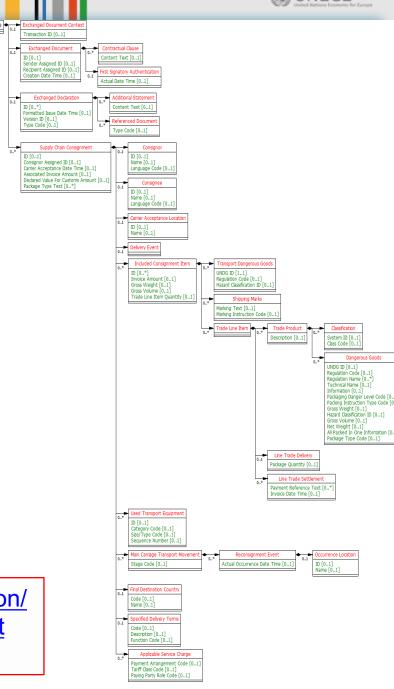
the CIM-SMGS railway consignment note referenced to the UN/CEFACT Multi-Modal Transport Reference Data Model, according to the prepared XML schema for CIM-SMGS

Subsets for the CIM-SMGS consignment note and the consignment note under UNECE's work on the Unified Railway Law (URL) developed

MS Excel and UML diagram, XSDs and html publication prepared

Standards for CIM/SMGS wagon list finalized

https://service.unece.org/trade/uncefact/publication/ Transport and Logistics/CIM-SMGS Consignment Note/HTML/001.htm





Traders

Logistics companies

National regulatory agencies

Sectoral organizations (UNECE, ICAO, IMO, CIT, OSJD, IRU, IATA, etc.) Regional organizations (EU, EAEU, TRACECA, GUAM, BSEC)

UN/CEFACT data reference models and standards (for multimodal transport)



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UN/CEFACT data reference models and standards (for multimodal transport)





Pilot case – Dnieper-Danube (sea, railway, road, inland waterways)



Objectives of the project

- 52h
- 1. Multimodal interoperability
- 2. Compatibility of data exchange on cargo transported by railway (E. Asia W. Europe)



- Legal framework: negotiations agreements
- Technology neutral solution EDI, XML, JSON API for blockchain
- Call to all stakeholders to collaborate/use standards
- Move from documents to data exchange



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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