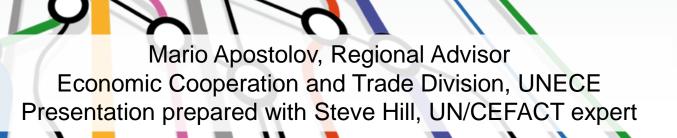
TRADE||||||||||||

Digitalization of air cargo transport information as part of interoperability for multimodal data and document exchange, using UN/CEFACT standards and Multimodal Transport Reference Data Model

UNDA project in response to COVID-19 crisis

ICAO seminar, 25 Aug. 2021





Modal Specific MMT DRM-based Customizations



✓ Maritime



✓ Road



✓ Inland Waterway



✓ Rail



Air

- ✓ Draft standards developed (AWB, DGD, CSD)
- Artefacts for Bureau approval



unttc.org web site



Transport and trade connectivity in the age of pandemics

Working together to better respond to pandemics through resilient supply chains, transport fulling the recommendations of the ZIV and ZIVZ UNEXL. USBS and trade.





Contactless solutions

It aims at minimizing physical contact among people in cross-border supply chains by facilitating the flow of goods without spreading

eTIR International System application / Interagency multidisciplinary Advisory

Electronic trade and transport documents and data

Supporting the implementation of automated road and rail solutions

Support to implementing best practices in TF in times of crisis and epidemic



Seamless connectivity

It focuses on eliminating obstacles to crossborder trade and transport operations arising from the CQVID-19 crisis.

UNCTAD/ ASYCUDA Guidelines

Cross-border processes performance management - ASYPM

Facilitate Humanitarian aid flows through efficient and managed ordination - ASYREC

Key international commercial law implications

National TF Committee coordination:

National TF Committees coordination: best practices in times of crisis and

National TF Committees: ECE

TRAINS online NTM portal & training

Analysis of NTMs introduced as part of the broader COVID-19 containment



Collaborative solutions

It seeks to strengthen regional and sectora cooperation to facilitate joint actions and solutions in responding to the COVID-19

Asia Pacific Region

Africa Region

West Asia Region

Latin America and the Caribbean

Europe and Central Asia Region

Regional Trade Facilitation coordination

Port resilience against invisible threats

Maritime Supply Chain Resilience Tracker and KPIs

Documents

Dnieper - Danube Corridor Pilot Dataset Alignment to International Standards and Data Models and Documents Implementation Prototypes for Use in Eastern Europe

Fulfilling the recommendations of the 2019 and 2020 UNECE "Odessa" ridors, with a view to increasing the harmonization and standardization of data exchange in international transport, trade and logistics to encourage electronic data exchange and thereby to reduce person-to-person contacts during the COVID-19 crisis and in the post-pandemic recovery using relevant UN/CEFACT standards, a pilot project under the overall UN Development Account project "Transport and Trade Connectivity in the Age of Pandemic: United Nations solutions for contactless, seamless and collaborative ransport and trade produced the following results:

- Analysis of data and documents transported via the Dnieper Danube route (as a pilot implementation project):
- Development of electronic document equivalents for Inland Water Transport using the DAVID forms of the Danube Commission for inland waterways:
- Analysis of the feasibility of using API in this corridor

Test for interoperability.

he aim is to foster the harmonization of electronic data sharing using global (UN/CEFACT) standards for transport, trade and logistics, and to prepare standards for e-documents based on the UN/CEFACT semantic standards and reference data models. The focus will be on the development of electronic document equivalents for the documents mentioned above, using UN/CEFACT tools in the countries developing a digital multimodal transport

Phytosanitary Certificate Standard Package

The Phytosanitary Certificate Standard Package was developed as part of the United Nations response to the challenges of the COVID-19 pandemic under the United Nations multiagency project "Transport and Trade Connectivity in the Age of Pandemics: UN solutions for contactless. seamless and collaborative transport and trade".

This electronic document equivalent Standard Package consists of the following elements:

- . UML Diagram XSD Schema
- . Guideline Structure
- · HTML



Activities

Tenth International Seminar on Trade and Transport Facilitation: Multimodal Transport Data Exchange, Digital Transport Corridors, and Trade Facilitation

27 - 29 Apr 2020





United Nations Economic Commission for Europe

News



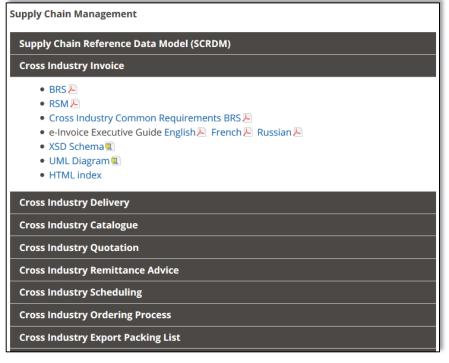
Road freight in ASEAN: New COVID-19 Response and

Third Technical Cooperation Workshop for the Western Balkans: Single Window and Data Sharing in the Western Balkans

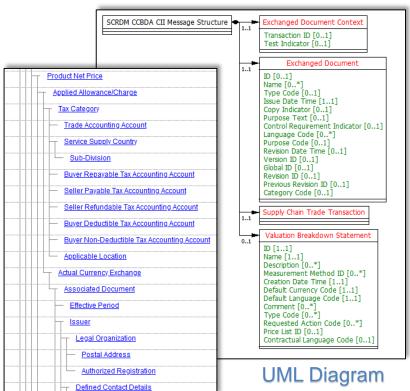
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27 - 28 Oct 2020

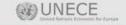
UN/CEFACT Streamlined Standards



<u>UN/CEFACT Streamlined Standards page</u>



Message structure (on HTML index)







Project outline

Documents/dataset mappings to MMT RDM:

- 1. Air Waybill (AWB)
- 2. Dangerous Goods Declaration (DGD)
- 3. Consignment Security Declaration (CSD)

Plan:

Two phases

- 1. Standards Drafts Done
- 2. Implementations In progress

Now:

- Draft Standards Reviewed by Experts
- Baselined and Artefacts Produced
- Ready for Bureau Approval (pre-publishing)

1. Standards:

Follows UN/CEFACT MMT RDM

- Business Requirements Specifications (BRS)
- Core Component Library (CCL) Structure
- Dataset alignment with other 'document' objects
- XLS guideline structure
- XSD schema
- UML diagrams
- HTML index
- JSON-LD schema (future development across UN/CEFACT)

2. Pilots:

In collaboration with ICAO



- Identify/outreach to candidate 'corridors'
- Engage . Educate . Assist with deployments

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AirCore Mappings

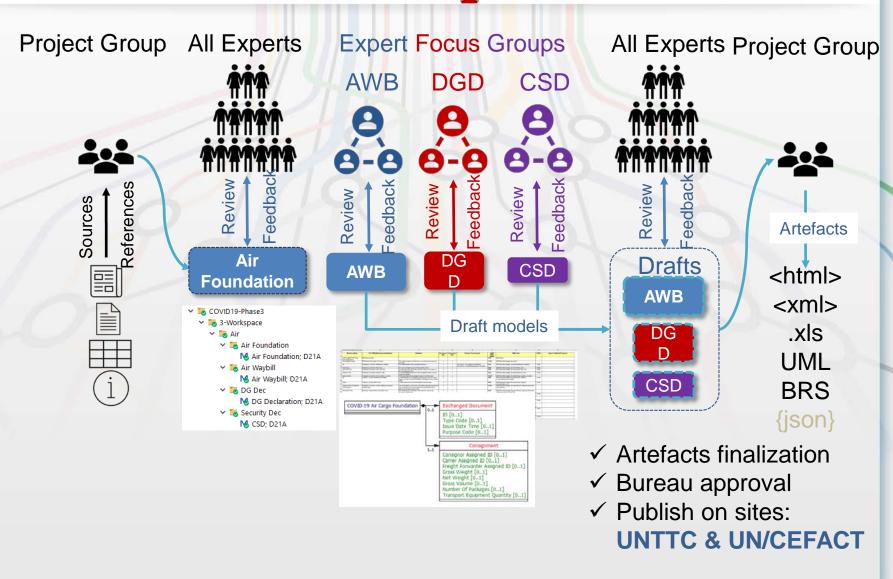
AWB

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100	OGD			CSD
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			Air Waybill	Consignment Security Declaration
		Maria de la companya	issued by	Regulated Entity Category (RA, KC or AO) and Unique Consignment Identifier
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Standards Development Process





Dangerous Goods Declaration

DGD

- Air DGD one of several DG projects underway
 - UNECE Transport Div: Road/Rail/Inland Waterway
 - Maritime IMO
- Data Model mainly supported requirements
- One of the more complex & specialized models
- Some data elements specific to Air transport
- Several new elements e.g. Radioactive
- Air DG applies Road requirements for Truck Flights
- Possible future mapping between DG models



Consignment Security Declaration

CSD

- Declared security status of a consignment
- New:
 - Document type for UN/CEFACT
 - Security status, screening types, exemptions
- Reuse of elements from Data Pipeline (PDES)
- Requirements specified via ICAO:
 - Annex 17 of the Chicago Convention
 - Aviation Security Manual Doc 8973 [restricted]
- Data can be included within AWB
- CSD not yet used for other modes of transport
- Potential for Road use for Truck Flights

Mapping data in docs accompanying goods in different modes of transport (data matrix)

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1	2 3	4 5 6	7	Α	С	D	Е	F	G	J	K	Air
			1	Level	Business Name	MMT	eCMR Road Consignment No	Maritime BoL	CIM-SMGS Rail Consignment Not	Inland Waterway BoL	FIATA BoL	Wayb
	+		175	2	Carrier Acceptance Location	Х	X	Х	X	X	Х	Х
	+		180	2	Consignee Receipt Location	Х	X	X		X	Х	X
	+		184	2	Loading Baseport Location	X					X	^
	+		187	2	Unloading Baseport Location	Х					Х	
	+		190	2	Final Destination Location	Х		X	X			X
	+		194	2	Transport Contract Document	X		X		X		X
	+		197	2	Handling Instructions	X	X		X			X
	+		205	2	Loading Instructions	X	X					X
	-		207	2	Included Consignment Item	X	X	X	X	X	X	X
			208	3	ID				X			X
			209	3	Sequence Number	X	X	X	X			X
			210	3	Goods Type Code	X	X	X	X	X	X	X
			211	3	Declared Value For Carriage Amount	X					X	X
			212	3	Insurance Value Amount	X					X	X
			213	3	Invoice Amount	X	X		X			X X
			214	3	Gross Weight	X	X	X	X	X	X	X
			215	3	Gross Volume	X	X	X		X	X	X
			216	3	Information	X		X		X		X
			217	3	Tariff Quantity	X	X					X
			218	3	Trade Line Item Quantity				X			X
		·	219	3	Global ID	X	X					
		+	220	3	Cargo Nature Identification	X	X				X	X
		Ę.	223	3	Transport Dangerous Goods	X	X	X	X	X	X	X
			224	4	UNDG ID	X	X	X	X	X	X	X
			225	4	Regulation Code	X	X	X	X	X		X
			226	4	Regulation Name				X			X
			227	4	Technical Name	X	X		X			X
			228	4	Information	X		X	X	X		X
			229	4	EMS ID	Х		Х	X	X		
			230	4	TREM ID	Х			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



Further Information

All documents are and will be made available on <u>UNTTC.org</u> and UN/CEFACT Project 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

Please join the work

Implementation of the standards and the UNDA project for rebuilding better after the pandemic:

Invitation to implement the standards and develop and implement pilot projects

UN/CEFACT: experts are welcome to join the work of UN/CEFACT after registration:

- https://uncefact.unece.org/display/uncefactpublic/UNCEFACT+Exper t+Registration
- All deliverables of UN/CEFACT are available free of charge on the website: https://unece.org/trade/uncefact
- All UN Member States are welcome to participate in the approval process

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