

11th International Seminar on Trade and Transport Facilitation

27 May 2021

UN/CEFACT Standards for Air Cargo Transportation

Air Cargo Digitalization in COVID-19 Times: Multimodal Perspectives

Steve Hill

UN/CEFACT Expert





UNTTC

Transport & Trade Connectivity in the age of pandemics

- UN New York launched **COVID-19 initiative to encourage exchange of digitised electronic data** rather than paper documents in transport contract related data exchanges
- **UNECE and UN/CEFACT joint contribution:**
 - Cross-modal project to develop modal guides on reuse of the UN/CEFACT MMT Reference Data Model to support digitised data exchanges between transport modes
 - **7 Heads of Delegation** Supported the Project
(Germany, Spain, Greece, Russia, Italy, US and Ukraine)



Modal Specific MMT-based Customisations



✓ Maritime



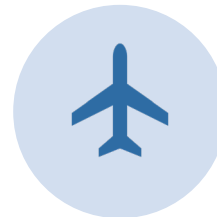
✓ Road



✓ Inland Waterway



✓ Rail



Air (currently in flight!)



Project outline

Documents/dataset mappings to MMT RDM:

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

Plan:

Two phases

1. Develop the standards – 15 July 2021
2. Pilot implementations – 01 September 2021

Now:

- Project team assembly – experts welcome
- Data sources identified
- Data mapping & modelling

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

2. Pilots:

In collaboration with ICAO



- Identify/outreach to candidate countries/areas
- Engage . Educate . Assist – with deployments





AWB

Air

DGD

SHIPPER'S DECLARATION FOR DANGEROUS GOODS						(Provide at least two copies to the airline.)	
Shipper 				Air Waybill No. Page of Pages Shipper's Reference No. (optional)			
Consignee 				WARNING Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder, or an IATA cargo agent.			
<i>Two completed and signed copies of this Declaration should be handed to the operator</i> TRANSPORT DETAILS This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i>				Airport of Departure:			
PASSENGER AND CARGO AIRCRAFT		CARGO AIRCRAFT ONLY		Shipment Type: <i>(delete non-applicable)</i>			
Airport of Destination:				NON-RADIOACTIVE		RADIOACTIVE	
NATURE AND QUANTITY OF DANGEROUS GOODS							
Dangerous Goods Identification							
UN or ID No.	Proper Shipping Name	Class or Division	Packing Group	Subsidiary Risk	Quantity and Type of Packing	Packing Inst.	Authorization
ADDITIONAL HANDLING INFORMATION: "Prior arrangements as required by IATA Dangerous Goods Regulations 1.3.3.1 have been made." Prepared according to ICAO/IATA.							
24hr. Emergency Contact No.							
I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national government regulations.					Name/Title of Signatory Place and Date Signature (see WARNING above)		
MATERIAL INTENDED FOR USE OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.							

[illegible]

CSD

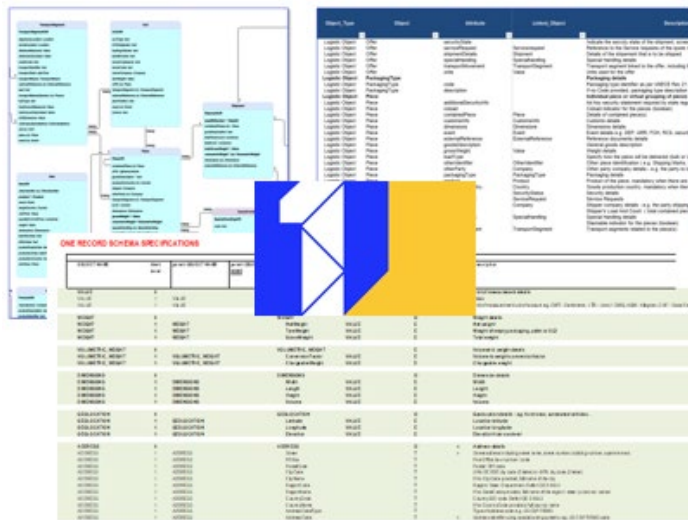
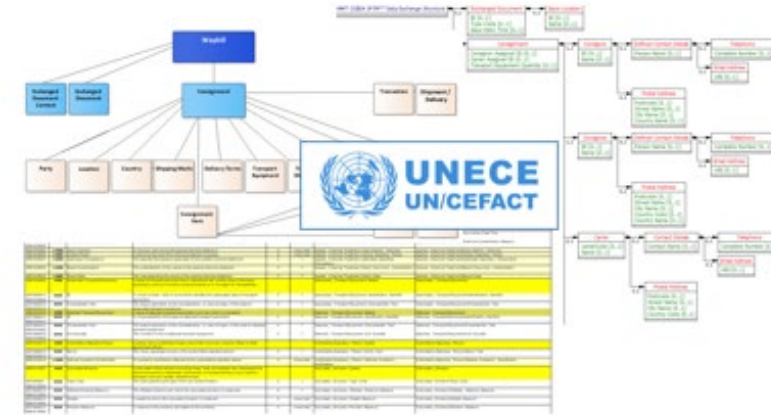
Consignment Security Declaration (CSD)			
Regulated Entity Category (KC, RA or RC) and Identifier (of the regulated party issuing the security status)		Unique Consignment Identifier (if AWB format is nnn-nnnnnnnn)	
Contents of Consignment			
<input type="checkbox"/> Consolidation			
Origin		Destination	
		Transfer/Transit points (if known)	
Security Status	Reasons for issuing security status		
	Received from (codes)	Screening Method (codes)	Grounds for Exemption (codes)
Other Screening Method(s) (if applicable)			
I confirm that I have reviewed all available documentation and have determined that none of the cargo being offered in this consignment or consolidation either originated in, transferred from or transited through any point in Yemen, Syria, Somalia or Egypt			
Security Status Issued by		Security Status Issued on	
Name of Person or Warranty ID		Date (ddmmmyy)	
Regulated Entity Category (KC, RA or RC) and Identifier (of any regulated party who has accepted the security status given to a consignment by another regulated party)		Time (hhmm)	
Additional Security Information			



Air Waybill Approach

Airfreight supports multiple IATA standards for B2B & some B2G:

- Cargo-IMP: legacy, bespoke EDI
- Cargo-XML: current, UN/CEFACT aligned
- ONE Record: piloting, JSON-LD backwardly compatible



Mapping UN/CEFACT subset with IATA ONE Record

Enhanced data model e.g. piece level

MMT (BOL) <> Air Waybill (AWB) baseline,
others to be considered e.g. House Waybill





Further Information

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

Information on the UN/CEFACT projects:

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

To participate or find out more please contact:

Michael Dill – Project Leader

