International Forwarding and Transport Messages Project

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Project Brief

• UN New York launched **COVID-19 initiative to encourage exchange of digitised electronic data** rather than paper documents in transport contract related data exchanges

• Many operators still have a document-centric approach to data exchange including **wide use of the IFT*** family of UN/EDIFACT UNSMs

• Business Requirements Specifications (BRS) done

• Profiles for many classic transport document types done -> next step to publish further profiles on the UN/CEFACT website after UN/CEFACT Bureau notification (see UNTTC.ORG website)

• Current phase: **Air Mode** and **Dangerous Goods**
UNDA multiagency project in response to the COVID-19 crisis. ECE segment: multimodal data exchange harmonization using UN (UN/CEFACT) standards and reference data models

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)

Key partners: UN organizations custodians of transport documents: UNECE, ICAO, IMO, etc., and work with key non-UN partners.
Different experts and organisations can develop and maintain different profiles of MMT,
- with different lifecycle and update frequency
- with their own privacy policies
- on the level of UN/CEFACT and/or their organisations
- independently from each other
- with individual and different Intellectual Property Rights
- even by further customising profiles
- targeting various exchange methods and formats
- keeping their data model independent but linking them through mapping
- Aligned to UN Layout Keys paper documents and UN/EDIFACT
Domain impacts of transport information

Interoperable transport information

Rotterdam (NL)
- House waybill 1
- CMR 1
- Truck Manifest 1

Antwerp (BE)
- UNICE (2)
- AWR 1

Luxembourg
- ICAO (1)
- DGT 1
- UNICE (5)
- AWR 2, includes CSD
- CMR 2

Chicago O’Hare
- Shipper, forwarder transport operator
- Dangerous transport
- Security declaration

Singapore
- Issued by carrier
- Issued by sender goods
- Handling agent, driver
- Public authority

Road 1
- GHAE Export
- GHAE Load

Road 2
- GHAE Load

# Flights
- GHAE EU-Out
- GHAE Declaration

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UN Family and regulatory domains

International conventions and regulations

- UN Regional Commissions
- IMO
- UNCTAD
- UNECE
- Others (e.g. FAO, CITES)
- ICAC

- WCO
- OTIF

- ADR
- ADN
- AWB
- DGD
- CSD
- CMR
- IMO
- FAL
- CIM
- RID
- ...
For example: EU regulatory supply chain data space

- European Electronic Freight Transport Information (eFTI)
- European Maritime Single Window environment (EMSWe)
- European Customs Data Model (EUCDM)

Solution:
- Data overlap needs harmonisation and alignment
- Use Data Models such as CEN-CEFACT-MMT and CO Data Model
Mapping of conventions and regulations to RDMs

ADR
ADN
AWB
DGD
CSD
CMR
IMO
FAL
CIM
RID
...

Reference Data Models
UN/CEFACT-MMT
WCO Data Model
Profiles combined – gap analysis – which data can be forwarded from one mode to the other?

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<th>CIM-SMGS Consignment Note under URL</th>
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MMT RDM profiles – Various Transport Modes

- **Base (BSP to MMT RDM)**
  - Buy/Ship/Pay (BSP) RDM
  - MMT RDM

- **Customization (Transport Modalities)**
  - eCMR
  - Maritime BoL
  - Inland waterway BoL
  - CIM/SMGS
  - FIATA BoL

**Transport and Logistics**

- Multi-Modal Transport Reference Data Model (MMT-RDM)
  - White Paper on RDM
  - RDM Guidelines
  - BR5
  - Executive Guide on RDM
  - Structure Report / Data Elements
  - XSD Schema
  - UML Diagram
  - HTML index

- **Road Consignment Note (eCMR)**
- **Maritime Bill of Lading**
- **Inland Waterway Bill**
- **Rail CIM-SMGS (URL)**
- **Rail SMGS**
- **Rail Wagon List**
- **Air Waybill**