

Partnerships and synergies to support implementation projects and methodology for using UN digitalization standards

Mario Apostolov,
UNECE Regional Adviser
mario.apostolov@un.org



Pilot reports on the website

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

Partnerships and synergies to support pilot projects and implementation of the UN digitalization methodology: use of the UN/CEFACT standards and MMT RDM



Governments will create an enabling environment to realize the vision (for the UN/CEFACT standards):

2024

- Governments and business will take part in digitalizing B2B supply chain data exchange based on UN/CEFACT standards

2025

- Operators will participate in pilot projects using the UN/CEFACT standards: port community systems and others

2026

- Economic operators use electronic data exchange on documents accompanying goods using UN/CEFACT standards;
- Customs authorities and economic operators may use eCMR with the use of the UN/CEFACT standards;
- Economic operators participate in pilot projects for operational supply chain data exchange.

2027

- Economic operators and authorities to use rail data exchange based on the Unified Railway Law and UN/CEFACT
- Economic operators may use digital air cargo documents with application of the UN/CEFACT standards;
- Economic operators in all countries may use the operational supply chain data exchange.

2028

- New action plan to be agreed
- The SPECA Governments will convene meetings of experts to elaborate on the implementation details.
- The implementation of this Roadmap will have a strong capacity-building component,
- SPECA Governments recognize the value added of implementing the Roadmap - work with UNECE to mobilize funds.

To do list for incorporating UN/CEFACT standards in digitalization projects along a supply chain / corridor

Problem: fragmentation of digitalization projects, regimes, syntaxes

- **From the start of any digitalization project along the TCC:**
 - **focus on multimodality and**
 - **use of global (UN/CEFACT) standards;**
- **Select mode(s) of transport and list of documents,**
- **Collect business requirements;**
- **Map to the MMT RDM;**
- **Develop pilot projects**

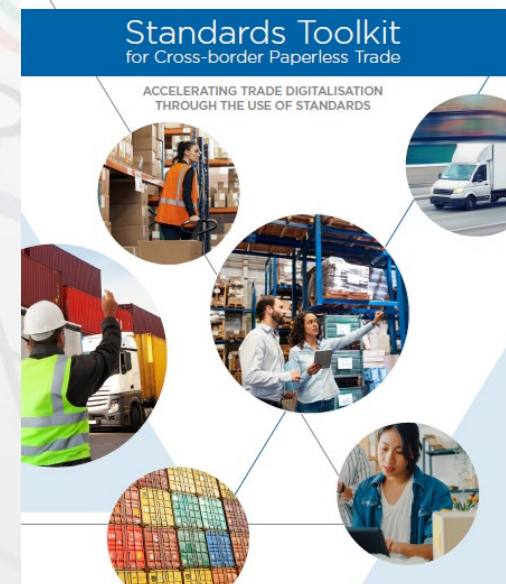
Pilot algorithm to test e-docs accompanying goods

To test an e-version of document accompanying goods (consignment note, bill of lading) to be exchanged between operators (B2B) then sent to Customs/regulatory

- Stakeholders officially agree to participate in the pilot project (MoU)
- Prepare a prototype of the Multimodal Transport Reference Data Model (MMT RDM) following UN/CEFACT naming rules, definitions, data structures, XSD schemas.
- Map data to the UN/CEFACT standards & MMT RDM. If existing, align to standard of relevant sectorial organization (e.g., IATA Airwaybill). Working events of stakeholders
- Test prototype: (1) consignor/carrier fills in prototype and initiates e-doc exchange by sending it to the receiving country/agency; (2) receiving country/agency acknowledges document's arrival, and that it can open it; (3) receiving party verifies for errors. If any, sends error message; (4) If all is fine: receiving party issues a message validating receipt.
- Explore a cross-border agreement to use the results / equivalent of electronic/paper documents with electronic transferrable records (data sets) .
- Possible second phase:
 - countries/operators integrate exchange into their IT systems and test sending data/messages to Customs/regulatory agencies and business partners.
- Possible third phase: multimodal corridor exchange
 - prepare harmonized multimodal data exchange
 - combine with exchange of summary Customs declarations, invoices, etc.

Possible other pilot projects and partnerships

- CIM/SMGS consignment note & other docs
- Info exchange among Caspian ports (IMO/FAL documents)
- FIATA multimodal bill of lading
- UN/EDIFACT – XML converter
- ICAO/air cargo pilot projects
- Other corridors
- Conversion railway – road (SMGS – eCMR)
 railway – sea (SMGS – IMO/FAL)



In 2024, create a technical specification for the SMGS electronic consignment note using UN/CEFACT and MMT RDM standards

- OSJD/RZhD and UN/CEFACT experts cooperate to create a technical specification for the SMGS consignment note
- Use it for pilot projects

Comments to the UN/CEFACT experts suggestions for adjusting the SMGS consignment note dataset in XML format (12.02.2024)

On p. 1:

UNH+N2+IFTMIN:D:97A:UN:OSJD' contains the following data:

- IFTMIN – message type identifier,

Which value should be indicated in Guideline/Version/Name (*BSP Master. Details/BSP Master. Exchanged Document_Context/Exchanged Document_Context. Guideline_Specified. Document_Context_Parameter/Document_Context_Parameter. Specified. Document_Version/Document_Version. Name. Text*) in electronic message developed in XML format? In JSON format?

UN/CEFACT Experts: IFTMIN

- D97A – message type version and release number,

Which value should be indicated in Guideline/Version/ID (*BSP Master. Details/BSP Master. Exchanged Document_Context/Exchanged Document_Context. Guideline_Specified. Document_Context_Parameter/Document_Context_Parameter. Specified. Document_Version/Document_Version. Identification. Identifier*) in electronic message developed in XML format? In JSON format?

UN/CEFACT Experts: D97A

- OSJD – association assigned code.

Which value should be indicated in Guideline/ID (*BSP Master. Details/BSP Master. Exchanged Document_Context/Exchanged Document_Context. Guideline_Specified. Document_Context_Parameter/Document_Context_Parameter. Identification. Identifier*) in electronic message developed in XML format? In JSON format?

UN/CEFACT Experts: The identifier of the organization responsible for designing and maintaining the message type, which is issued by OSJD.

Which value should be indicated in Guideline/ID/ Identification Scheme Agency. Identifier (*BSP Master. Details/BSP Master. Exchanged Document_*

Thanks!

Further Information

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

On the project web site (unttc.org), 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>

Mario Apostolov, Regional Advisor
UNECE Economic Cooperation and Trade Division:
mario.apostolov@un.org,
Tel. +41 22 9171134 or +41 79 2790936