18th session of the SPECA Working Group on Trade

Sue Probert
UN/CEFACT Chair

Global Supply Chain Data Exchange Standards for harmonised digitisation of trade and transport data flows.
About UN/CEFACT

Objectives
- Simple, transparent and effective processes for global business
- Efficient and automated exchange of information
- Targeted support to SDGs 8, 12, and 17

Key tools
- 50 global trade facilitation recommendations
- 950 e-Business standards and guidelines

Means
- Public-Private Partnership
- Over 1600 volunteer experts working on 30 active projects
- Bi-annual Forums and annual Plenary sessions
- Regular Bureau calls
Global Supply Chain Holistic Multimodal links

• Most dematerialization projects are only looking at one sectoral view
  • The international supply chain is very complex
  • Almost all sectoral views are just one part of a global supply chain

• A holistic view and approach are needed
  • Information will not be related purely to goods or purely to transport or purely to regulatory
  • There are clear links between the information in each part of the global supply chain

• UN/CEFACT deliverables all take this holistic approach
  • Cross Industry
  • MultiModal
  • Cross-border Agencies
UN/CEFACT Reference Data Model Family

**Buy/Ship/Pay RDM**

**Supply Chain RDM (SCRDM)**
- Order
- Despatch/Receipt Advice
- Receipt Advice
- Invoice
- Remittance Advice
- Travel & Tourism
- Experience Scenario

**Multimodal Transport RDM (MMT)**
- Shipping Instructions
- Consignment Notes
- Bill of Lading
- Container Gate In/Out
- IoT Smart Container
- Manifest

**Cross-Border Management RDM**
- Export Declaration
- Import Declaration
- Certificate of Origin
- SPS Certificate
- CITES Permit

**Sustainability & Circular Economy SDCE RDM**
- Event Traceability
- Product Transparency
- Circular Product Data Protocol
- Textile & Leather Tracking

---

Copyright UNECE
UN/CEFACT Global Supply Chain eBusiness Standards

• Based on UN/CEFACT international supply chain reference data model
• Cross-industry and Multi Modal/Intermodal
• Result of contributions from 100s of supply chain experts over more than 20 years
• Business Process Analyses and Data Exchange Message structures - latest published versions May 2023
• Publication formats to support the development of globally harmonised data exchange scenarios with particular focus on cross-modal transport corridors
• Aligned to international regulations and conventions where applicable e.g WCO Data Model (EUCDM) and IMO FAL Reference Model
• Supports EU eFTI and EMSWe regulations
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:
  • UN/CEFACT Cross-modal project to develop modal data exchange guides as subsets 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)
  • Project completed all ODP steps successfully and published on UN/CEFACT website plus links to UNTTC website
Modal Specific but Aligned UNTTC MMT-based Customisations

- Maritime
- Road
- Rail
- Inland Waterway
- Air
## Inter Modal Matrix with MMT as Reference Model (Auto-generated)

<table>
<thead>
<tr>
<th>BN</th>
<th>FIATA B/L</th>
<th>CIM-SMGS C belly</th>
<th>EFTI DESC Chip</th>
<th>ESMT</th>
<th>Air Waybill</th>
<th>Air CSD</th>
<th>Air DG</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>3</td>
<td>MMT COSA HTM** Data Exchange Structure</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>4</td>
<td>Exchanged Document</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>11</td>
<td>Name</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>12</td>
<td>ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>13</td>
<td>Type Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>14</td>
<td>Issue Date Time</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>15</td>
<td>Remark</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>16</td>
<td>Original Issued Quantity</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>17</td>
<td>Copy Issued Quantity</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>18</td>
<td>Purpose Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>19</td>
<td>Sender Assigned ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>20</td>
<td>Recipient Assigned ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>21</td>
<td>Version ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>22</td>
<td>Note</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>23</td>
<td>Subject Text</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>24</td>
<td>Content Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>25</td>
<td>Content Text</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>26</td>
<td>Subject Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>27</td>
<td>Reference Document</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>28</td>
<td>Type Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>29</td>
<td>Issue Location</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>30</td>
<td>ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>31</td>
<td>Name</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>32</td>
<td>Country Code</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>33</td>
<td>Contractual Clause</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>34</td>
<td>ID</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>35</td>
<td>Content Text</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>36</td>
<td>Air Waybill Consignor Signatory Authentication</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>37</td>
<td>Actual Date Time</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
Benefits of mapping mode specific data exchange structures to MMT

- MMT is a neutral free-for-use UN global standard developed over more than 20 years by 1000s of cross-domain volunteer experts
- Non-competitive semantic harmonisation to streamline intermodal operations
- Alignment with the WCO data model which shares a multimodal approach to streamline digital cross-border procedures and which is conceptually aligned with the UN/CEFACT global supply chain reference data model
- Alignment with EU eFTI and EU EMSWe regulations whose legal basis is being built on a foundation based on MMT
- Alignment with DCSA and FIATA negotiable maritime eB/Ls which are aligned to MMT
- Alignment with MMT-based eCMR consignment note
- Underpinning semantic interoperability whilst recognising the importance of the relevant governmental and modal regulations/conventions
Single Windows Document Families – European Union Perspective

UN/CEFACT Buy/Ship/Pay Reference Data Models

- Trade
  - EU CII
  - EU Traces NT

- Materials Management
  - UN/CEFACT SPS eCerts, Pref CoO etc.

- Transport
  - EU eFTI/EU eMSW

- Payment
  - EU Customs Data Model EUCDM)

- Insurance
  - Customs WCO Data Model

Partner Cross-Border Agencies

Copyright UNECE
Key Single Window Semantic Aspects

Recognition that:

- Public side and Government side speak different languages or, at least, different dialects
  - Affects names and definitions
  - Affects data quality
- Partnership approach using harmonised names and definitions will offer increased quality and mutually beneficial facilitation
- Pipeline provision of data in trusted trader programs offers to transform trade facilitation
- Primary and Secondary data views are different
For further Information

• All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at:
  • www.unec.org/cefact/
  • All experts are welcome to join the standards development work free of charge.

UN/CEFACT Secretariat
• Kamola Khusnutdinova kamola.khusnutdinova@un.org