

TRADE



Standardization of data and documents in the context of multimodal transport based on UN/CEFACT standards.

UN project to respond to the COVID-19 crisis
3rd seminar on Single Window and Data Sharing in the Western Balkans, online, 27-28 Oct. 2020



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UN responses to the COVID-19 crisis

1. Strengthen the resilience of countries by developing a coherent regulatory framework;
2. Reinforce sustainable trade and transport;
3. Limit the infection by facilitating trade and e-business to reduce physical contacts;
4. Analyze non-tariff measures to prevent them from becoming barriers;
5. The world's response to the challenge is fragmented;
6. The UN (5 Regional Commissions and UNCTAD): UN Development Account Project in response to the challenges of COVID-19 to connectivity;
7. The UNECE has a segment on harmonizing standards for electronic exchange of data and documents in multimodal corridors;
8. The mandate of the UNECE since 1947 is to ensure international cooperation to recover from a major crisis.

The concept of a multimodal data exchange project

Upgrading existing and developing new standards (Business requirement specifications, schemas, data subsets) for key documents accompanying cargo on multimodal transport

Based on UN/CEFACT semantic standards and reference data models (as a common denominator)

Pilot applications (e.g. in a digital multimodal corridor): electronic documents, data model for the corridor

Multimodal corridor approach:

Ready standards or standards under preparation

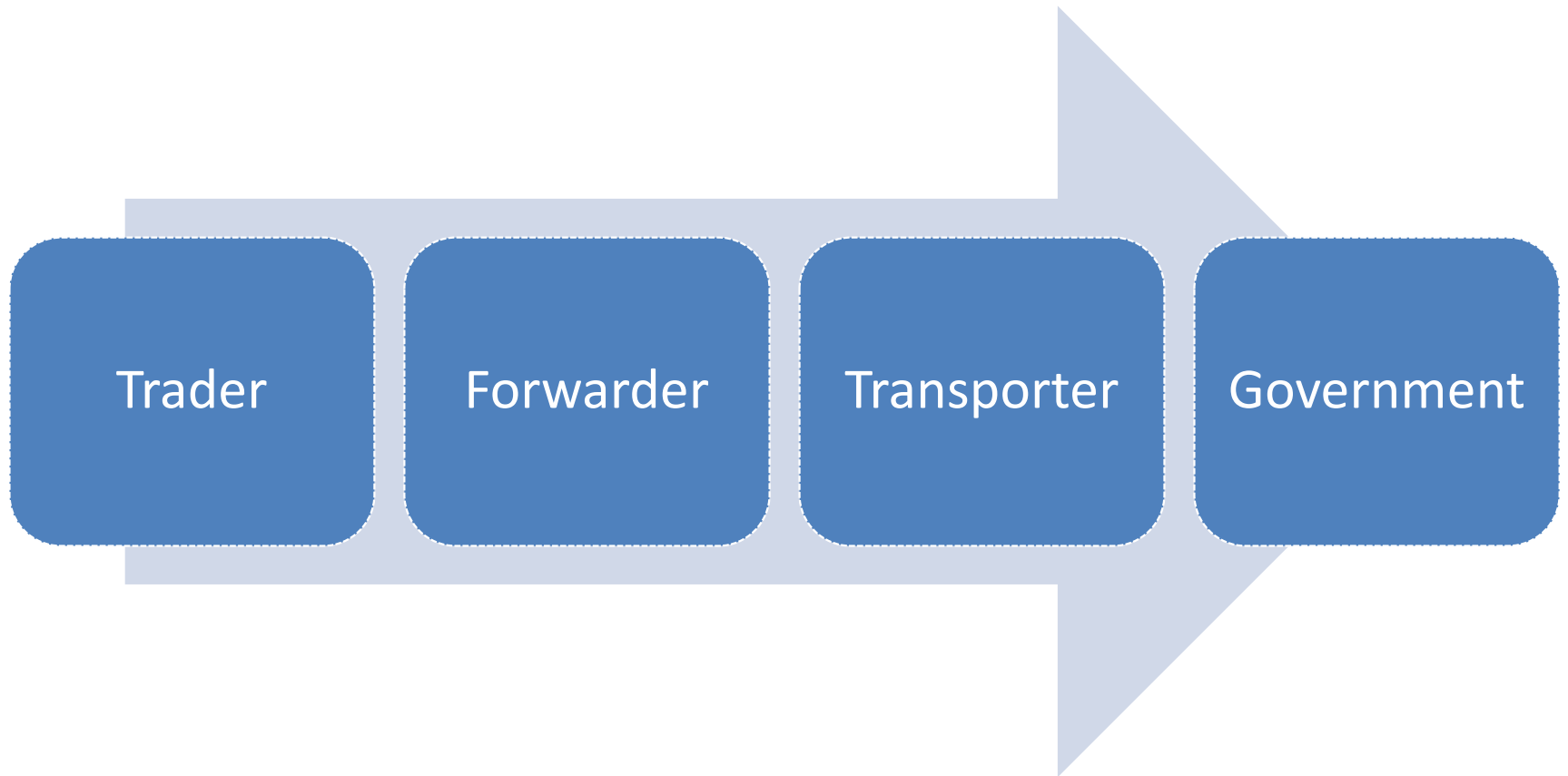
Documents on which to work pilot project

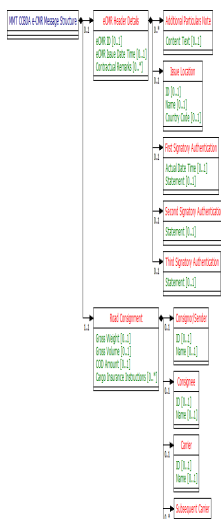
| | |
|---|--|
| 1. Standards (executive guide; business requirement specification; business name structure; subset; CCL structure; XLS guideline structure; HTML index, using as a model the e-CMR standard) www.unece.org/unecefact/mainstandards.html , already prepared for the following: | UML diagram; |
| <ul style="list-style-type: none"> eCMR Cross Industry Invoice Cross Industry Delivery Cross Industry Catalogue Cross Industry Quotation Cross Industry Remittance Advice Cross Industry Scheduling Cross Industry Ordering Process Material Safety Data Sheet Details (MSDS) Contract Financial Execution Management Market Research Information Verified Gross Mass (VERMAS) documents International Forwarding and Transfer documents Smart container information A number of agricultural certificates, accounting and other | <ul style="list-style-type: none"> eCMR |
| These standards you can find at www.unece.org/unecefact/mainstandards.html | |

Align data in these documents with UN/CEFACT standards and reference data models

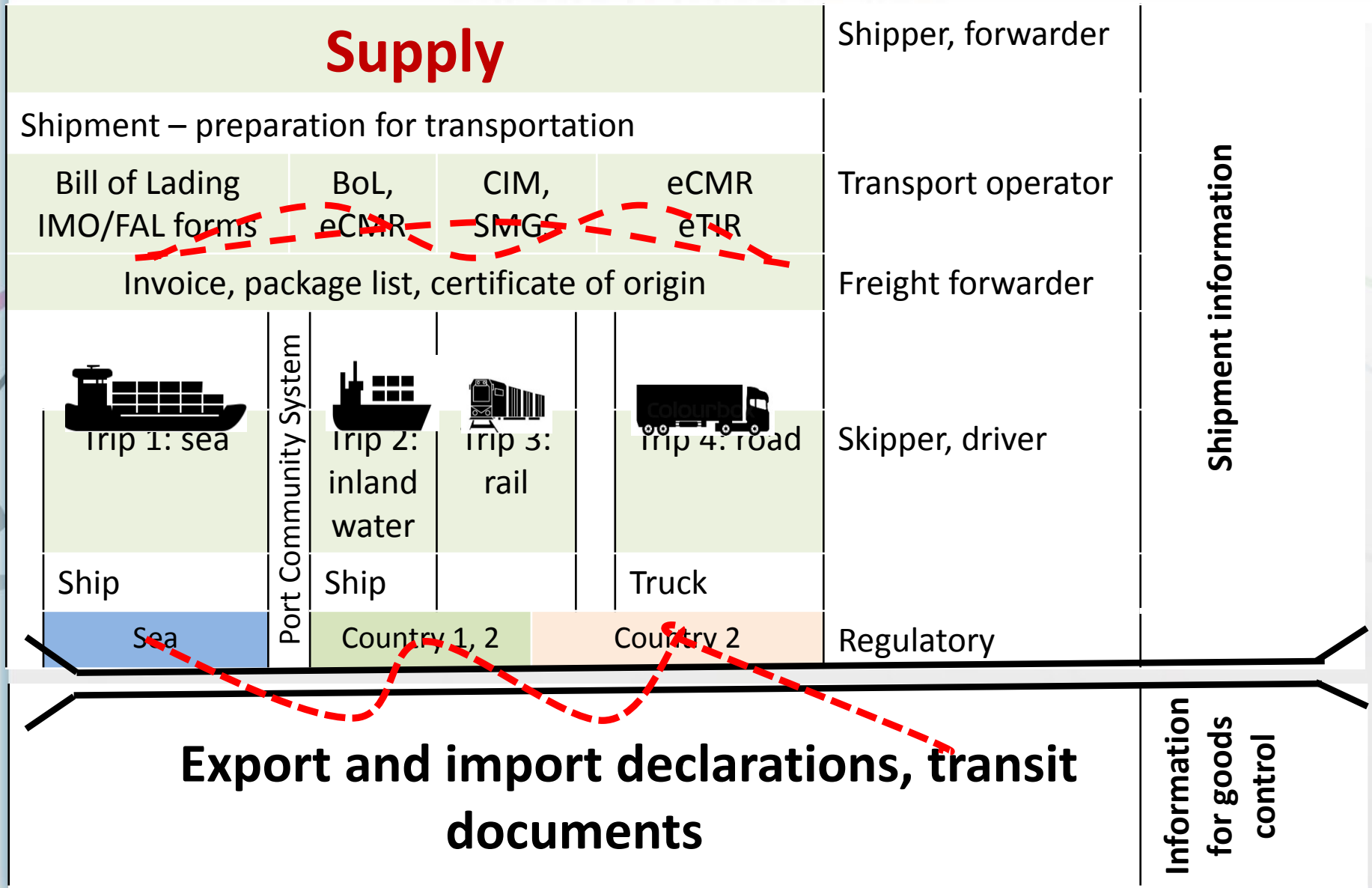
| | |
|---|--|
| 1. Standards to be finalized in Sept. 2020 | |
| <ul style="list-style-type: none"> Provisional booking Firm booking Booking confirmation Shipping instructions Waybill Status report Status request Packing list RAS | <ul style="list-style-type: none"> Bill of Lading (BoL) / maritime waybill) Packing list |
| 1. Standards to be finalized in Sept. 2020 | |
| <ul style="list-style-type: none"> Inland water transport document Maritime transport document CIM/SMGS Consignment Note; SMGS Consignment Note; CIM/SMGS Wagon List (freight manifest) (Appendix 7.2 to point 20, see https://www.cit-rail.org/en/freight-traffic/manuals/) Invoice for Customs eCERT (sanitary-phytosanitary certificates and basis for other certificates): Revise implementation guidelines (+ schema, subset) for the different certificates, aligned to the Buy-Ship-Pay Reference Data Model | <ul style="list-style-type: none"> BoL / maritime waybill Invoice for Customs SMGS, CIM/SMGS or CIM Consignment Note CIM / SMGS Wagon List (Appendix 7.2 to point 20) Container List (Appendix 7.4 to point 20) Handover sheet (Appendix 3 to SI to SMGS) https://osjd.org/api/media/resources/1603431 Inland water transport documents CO, C/O (preferential or non-preferential) |

Data flows





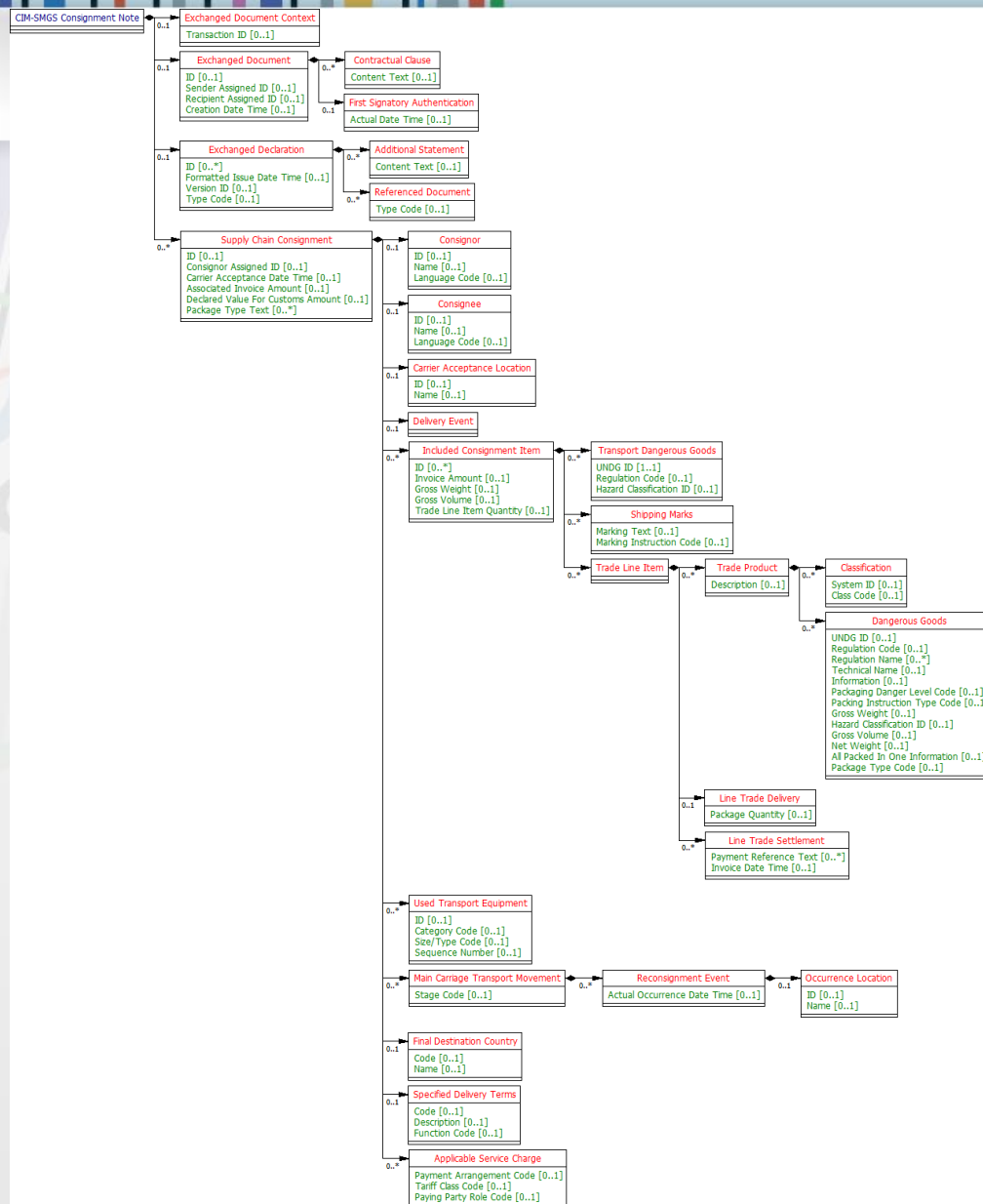
Seamless multimodal supply chain



Example: data mapping for CIM/SMGS, eCMR, eTIR

| Cardinality Min | Cardinality Max | Business Name | CIM/SMGS Note | eCMR | eTIR | Wagon/Container List | Invoice for Customs | Certificate of Origin | Packing List |
|-----------------|-----------------|----------------------------|---------------|------|------|----------------------|---------------------|-----------------------|--------------|
| 0 | 1 | Exchanged Document Context | | | | | | | |
| 0 | 1 | Transaction ID | | X | | | | | |
| 0 | 1 | Test Indicator | X | | | | X | | |
| 0 | 1 | Business Process | | | | | | | |
| 0 | 1 | ID | | X | | | | | |
| 0 | 1 | Guideline | | | | | | | |
| 0 | 1 | ID | | X | | | | | |
| 0 | 1 | Exchanged Document | | | | | | | |
| 0 | 1 | ID | X | X | | | X | | |
| 0 | 1 | Name | | | | | X | | |
| 0 | 1 | Type Code | | X | X | | X | | |
| 0 | 1 | Issue Date Time | | X | | | X | X | |
| 0 | 1 | Submission Date Time | | | X | | | | |
| 0 | unbounded | Remark | | X | | | | | |
| 0 | 1 | Language Code | | | | | X | | |
| 0 | 1 | Purpose Code | | | | | X | | |
| 0 | 1 | Revision Date Time | | | | | X | | |
| 0 | 1 | Sender Assigned ID | X | | X | | | | |
| 0 | 1 | Recipient Assigned ID | X | | X | | | | |
| 0 | 1 | Version ID | X | | | | X | | |
| 0 | 1 | Category Code | | | | | X | | |
| 0 | 1 | Creation Date Time | X | | | | | | |
| 0 | unbounded | Note | | | | | | | |
| 0 | 1 | Subject Text | | X | | | X | | |
| 0 | 1 | Content Code | | X | | | X | | |
| 0 | 1 | Content Text | | X | | | X | X | |
| 0 | unbounded | Subject Code | | X | | | X | | |

CIM-SMGS consignment note based on the reference data model for multimodal transport, according to the prepared XML schema for CIM- SMGS



Legal aspects of data sharing for multimodal transport

Government agencies and business partners once accepted paper forms, and their regulatory frameworks correspond to paper document requirements. This base needs to be revised.

Some points about using datasets:

- Benefits for all parties;
- Accessibility, accuracy and completeness of data;
- Possibility for multi-purpose use of documents, including in courts;
- Information exchanged to be used only for specified purposes;
- Data exchange based on international standards, not for profit;
- Transparent use of data, based on agreements bet. the countries;
- Participation of international organizations that manage the relevant documents.

Possible pilot projects (sea, railway, road, inland waterways)



Call for cooperation:

- Implement the standards for digitalization of trade and transport chains using global (UN/CEFACT) standards for certificates and licenses;
- Organize pilot implementation projects:
 - Implement the Cross-Industry Invoice (ICC): binding for government procurement in the EU;
 - Implement other certificates (eCERT – agricultural certificates;
 - Implement aligned transport documents along a digital corridor.



Thank you!

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