

UN/CEFACT

UN Centre for Trade Facilitation and Electronic Business



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UN/CEFACT Mission

Objectives

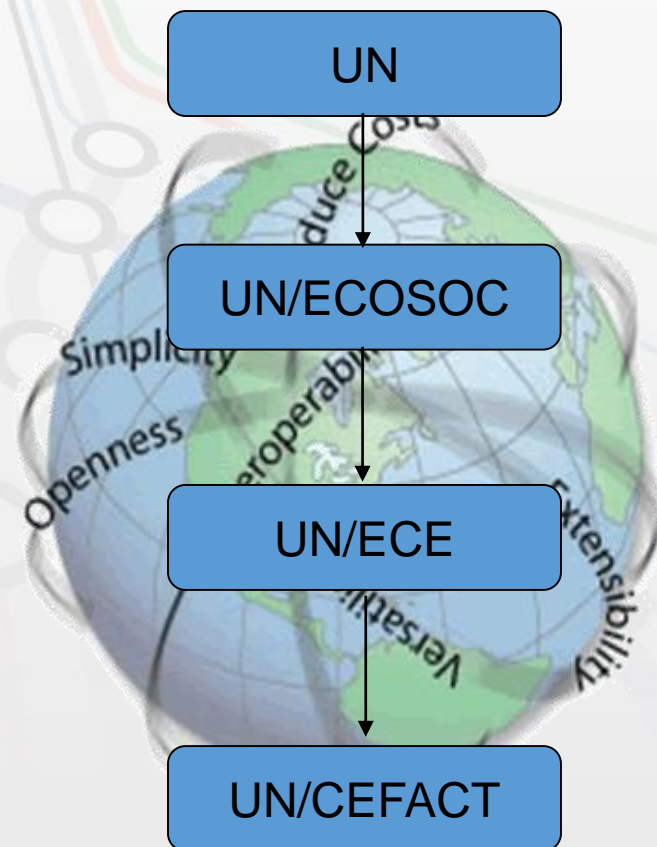
- Simple, transparent and effective processes for global business
- Efficient and automated exchange of information

Outputs

- Global Trade Facilitation and Electronic Business Recommendations and Standards

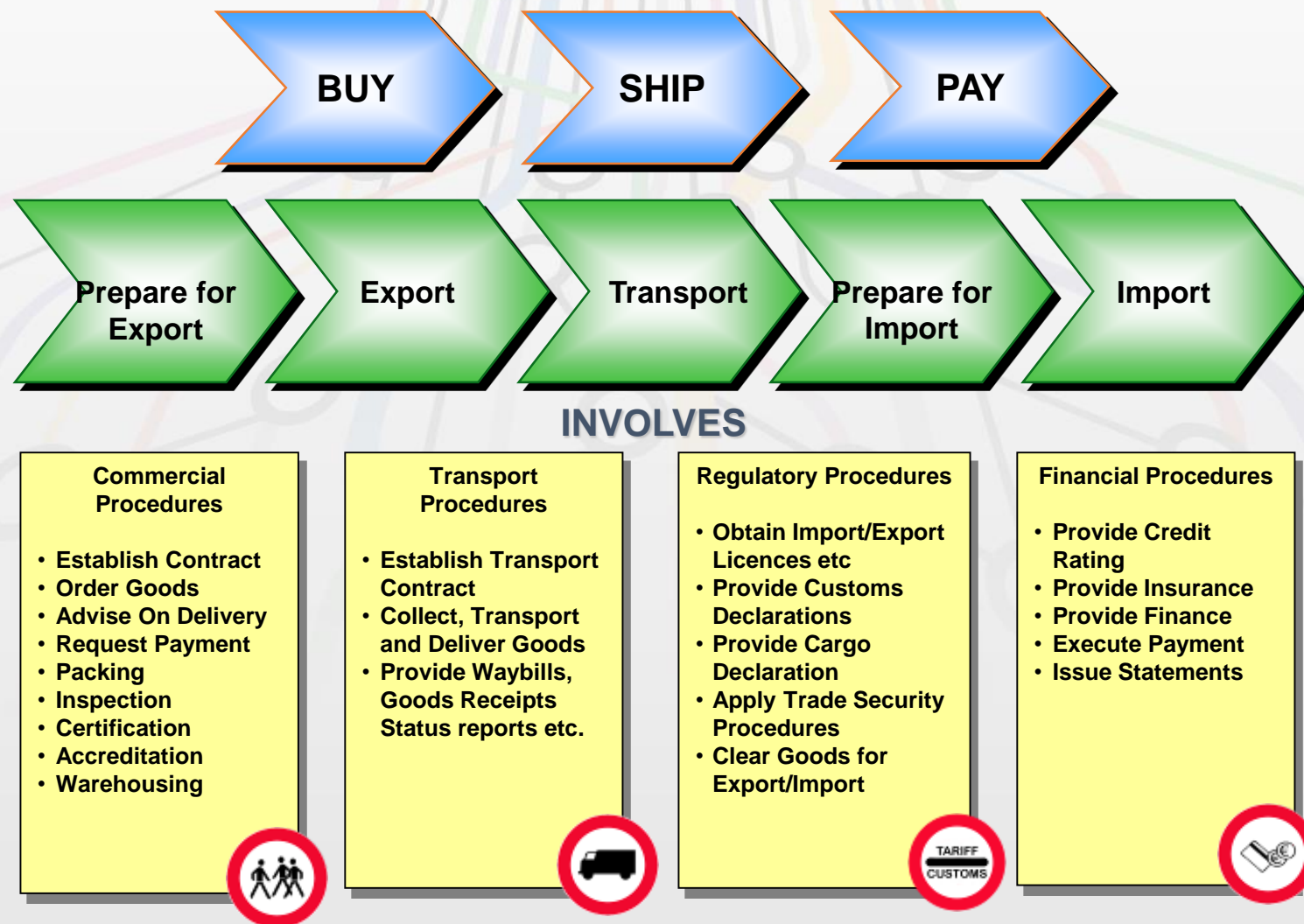
Means

- Public Private Sector Partnership – over 300 experts from government and business
- Meet virtually every week plus two Forums per year



Global Remit

Buy – Ship – Pay (BSP) Model



UN/CEFACT & Trade Facilitation

TRADE FACILITATION

○ Simplification

Process of eliminating all unnecessary elements and duplications in formalities, processes and procedures

○ Harmonization

Alignment of national procedures, operations and documents with international conventions, standards and practices

○ Standardization

Process of developing internationally agreed formats for practices and procedures, documents and information

UN/CEFACT Key Deliverables

- Over 30 Trade Facilitation Recommendations
 - Recommendation 1 – UN Layout Key for Trade Documents
 - Recommendation 4 – National Trade Facilitation Bodies
 - Recommendation 33 – Single Window
- Code List Recommendations
 - Recommendation 16 – UN/LOCODE
 - Recommendation 21 – Package Codes
 - Recommendation 28 – Means of Transport
- International Standards
 - UN/EDIFACT (directories, code lists, etc.)
 - Supply Chain Reference Data Model
 - Business Requirement Specifications

<http://tfig.unece.org/>

TRADE FACILITATION IMPLEMENTATION GUIDE

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Welcome to the
Trade Facilitation Implementation Guide

[Domains](#)[Itineraries](#)[Instruments](#)[Organizations](#)

Trade Facilitation
Implementation Guide



UNECE
United Nations Economic and Social Commission for Europe

UN/CEFACT e-CMR Project

Evgeniya IAFAEV
Project Leader

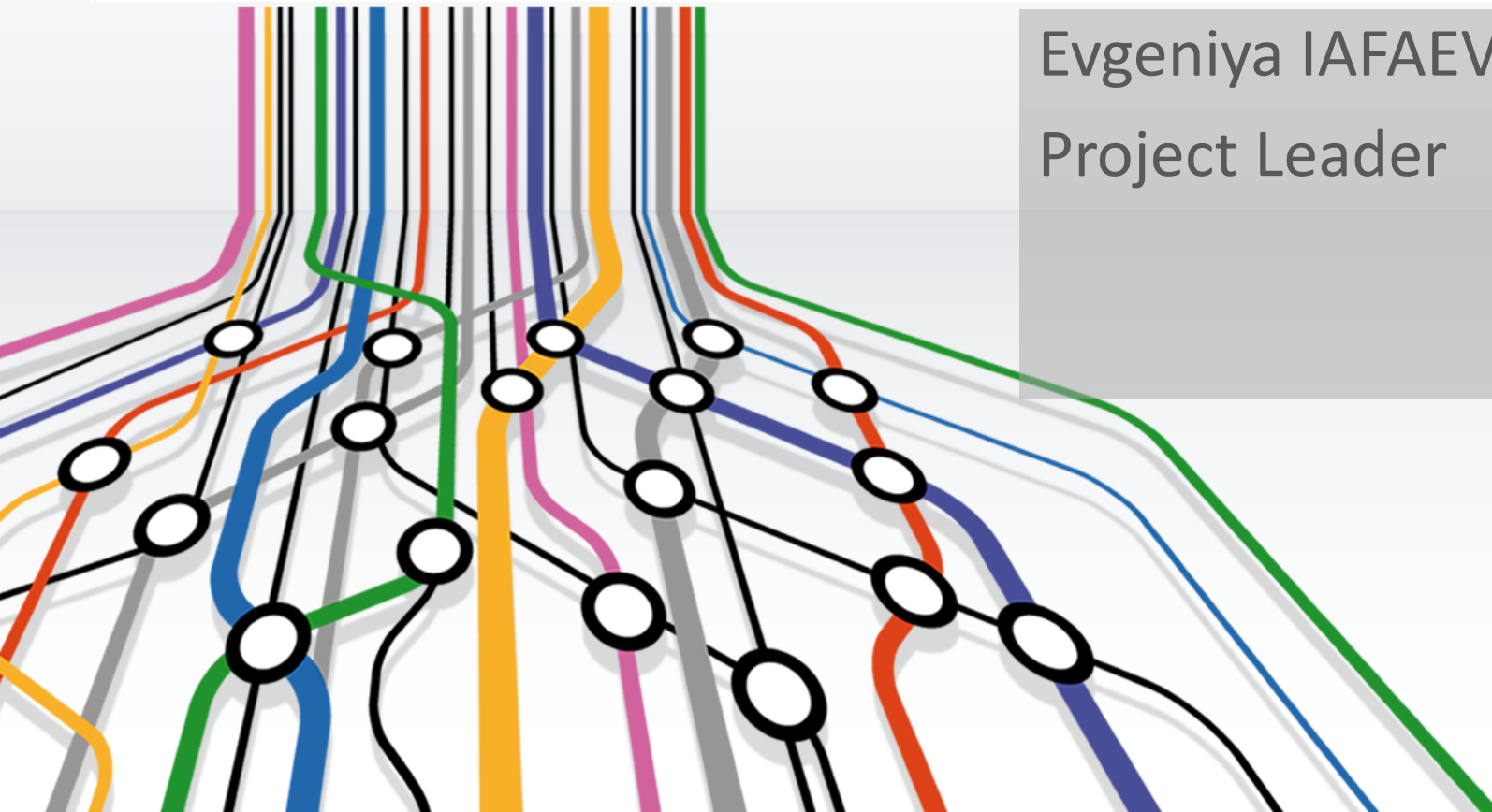


Table of contents

- UN/CEFACT e-CMR project and its deliverables
- Project status
- e-CMR project focus
- e-CMR model (work in progress)

Challenge: Interoperability of e-CMR solutions

CMR Convention

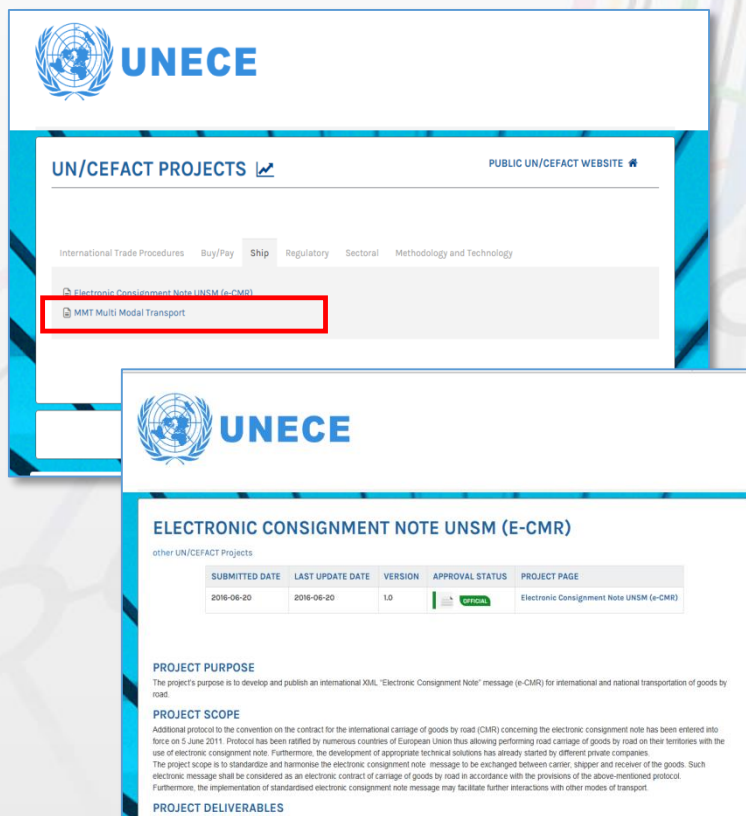
- Content of CMR
 - Date and time
 - Name and address of carrier, sender, consignee
 - The description of nature of goods, method of packing ...
 - Number of packages
 - Charges related to carriage
 - etc.

e-CMR Additional Protocol

- Set requirements for e-CMR. Parties shall agree on:
 - The method for issuance and delivery of e-CMR
 - An assurance that e-CMR retains its integrity
 - The manner in which the party entitled to the rights arising out of e-CMR is able to demonstrate that entitlement
 - etc.

First step: identify a list of vital messages for e-CMR, provide appropriate message model


UN/CEFACT e-CMR project deliverables



The screenshot shows the UN/CEFACT Projects website. The top navigation bar includes links for International Trade Procedures, Buy/Sell, Ship, Regulatory, Sectoral, and Methodology and Technology. The 'Ship' link is highlighted. Below the navigation bar, a list of projects is shown, with 'Electronic Consignment Note UNSM (e-CMR)' and 'MMT Multi Modal Transport' highlighted. The 'Electronic Consignment Note UNSM (e-CMR)' project is selected, showing its details.

ELECTRONIC CONSIGNMENT NOTE UNSM (E-CMR)

other UN/CEFACT Projects

SUBMITTED DATE	LAST UPDATE DATE	VERSION	APPROVAL STATUS	PROJECT PAGE
2016-06-20	2016-06-20	1.0	 Approved	Electronic Consignment Note UNSM (e-CMR)

PROJECT PURPOSE
The project's purpose is to develop and publish an international XML "Electronic Consignment Note" message (e-CMR) for international and national transportation of goods by road.

PROJECT SCOPE
Additional protocol to the convention on the contract for the international carriage of goods by road (CMR) concerning the electronic consignment note has been entered into force on 5 June 2011. Protocol has been ratified by numerous countries of European Union thus allowing performing road carriage of goods by road on their territories with the use of electronic consignment note. Furthermore, the development of appropriate technical solutions has already started by different private companies. The project scope is to standardize and harmonize the electronic consignment note message to be exchanged between carrier, shipper and receiver of the goods. Such electronic message shall be considered as an electronic contract of carriage of goods by road in accordance with the provisions of the above-mentioned protocol. Furthermore, the implementation of standardised electronic consignment note message may facilitate further interactions with other modes of transport.

PROJECT DELIVERABLES

e-CMR project deliverables:

- Business Requirements Specification (BRS) for Electronic Road Consignment Note (e-CMR) based on the high-level MMT BRS
- Subset exchange syntax-neutral message structures for e-CMR
- XML schemas of the e-CMR messages
- Mapping to the relevant existing UN/EDIFACT UNSM (IFTMIN)

e-CMR project supported by:    

Project Team:

- Project leader: Evgeniya Iafaev,
- Lead Editor: Rudy Hemeleers
- Editor: Bérengère Coupet Maisonnave
- Experts:
 - Thierry Grumiaux
 - Gianguglielmo Calvi
 - Sue Probert
 plus others

Current Project Status

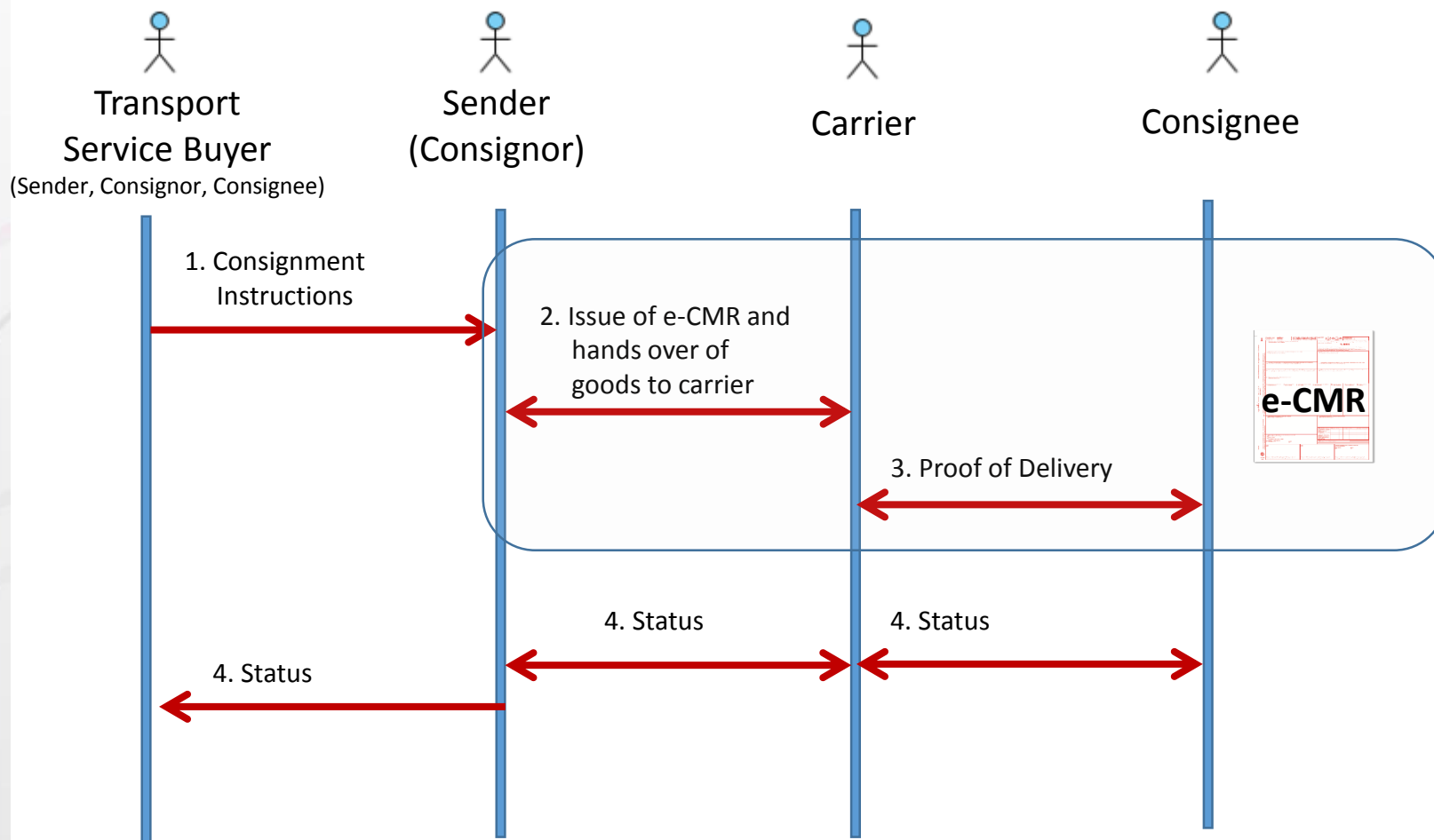
- Draft e-CMR message model – work in progress

Goal: Public Review launch by October 2017

- Business Requirements Specification
public review completed

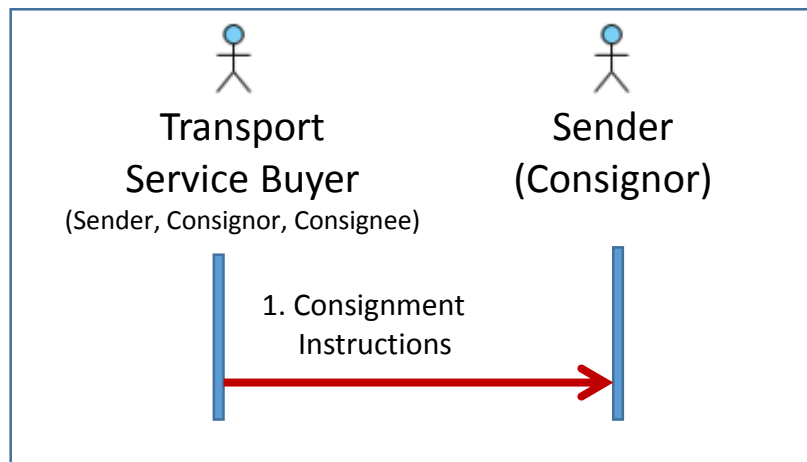
Results of the Public Review are under revision

UN/CEFACT e-CMR project focus



* Changes based on BRS review

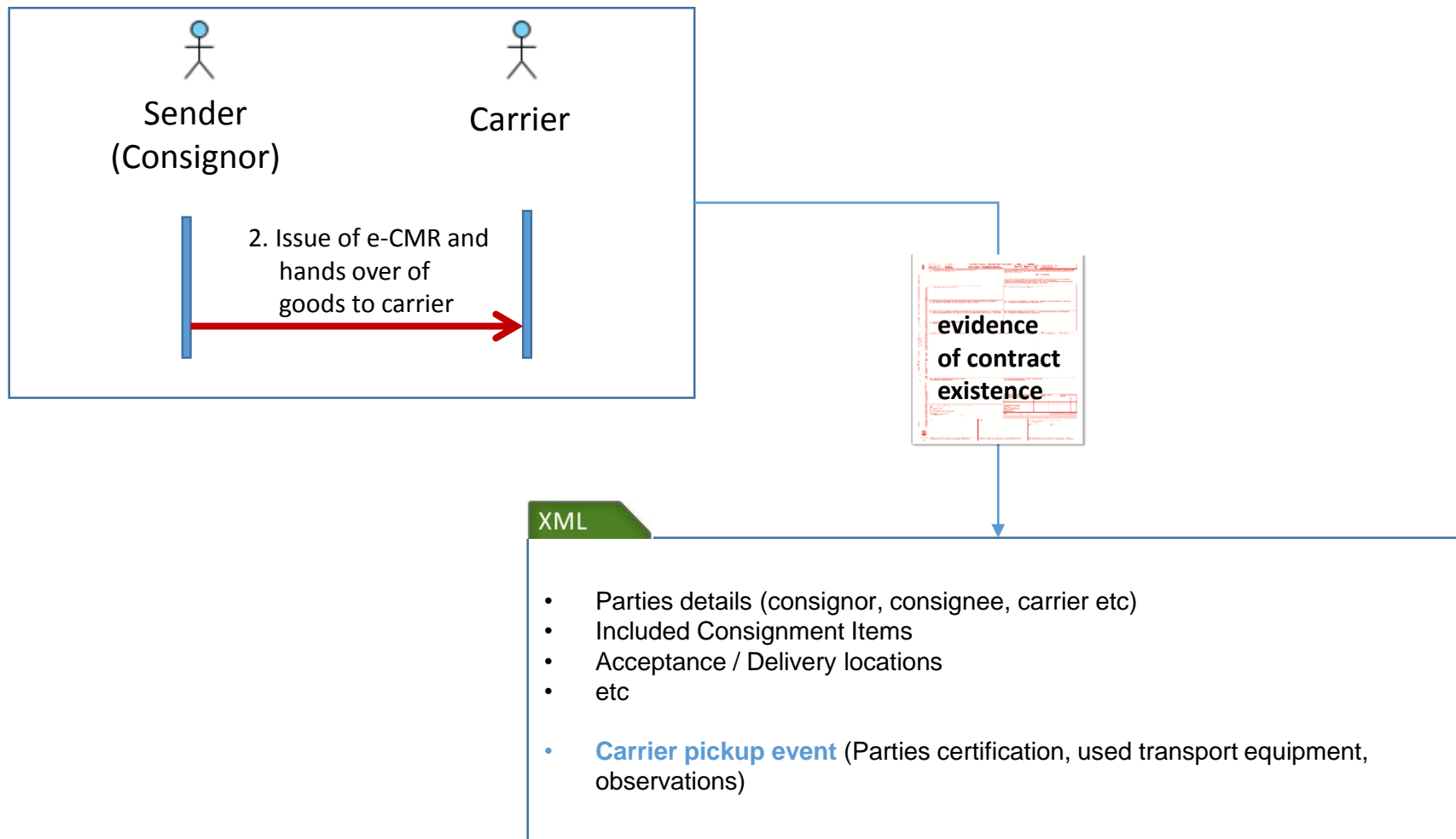
e-CMR model



XML

- Parties details (consignor, consignee, carrier etc)
- Included Consignment Items
- Acceptance / Delivery locations
- Etc

e-CMR model



e-CMR model

1 Exemples pour expéditeur / Remettant / **Expéditeur**

LETTRE DE VOITURE - DOCUMENT DE TRANSPORT
FRACHTBRIEF - TRANSPORTDOCUMENT

CMR **AVC-2002** Code Transporteur / Carrier / **Code Transporteur**

NL 024896

Indiquer les renseignements relatifs au transporteur et au destinataire de la lettre de voiture en remplissant les cases ci-dessous. Les renseignements doivent être fournis en deux exemplaires: l'un pour le transporteur et l'autre pour le destinataire. Les renseignements doivent être fournis en deux exemplaires: l'un pour le transporteur et l'autre pour le destinataire.

1 Expéditeur (nom, adresse, pays) / **Expéditeur** (nom, adresse, pays)
Expéditeur (nom, adresse, pays)

2 Destinataire (nom, adresse, pays) / **Destinataire** (nom, adresse, pays)
Destinataire (nom, adresse, pays)

3 Les points pour le transport de la marchandise (des, pays) / **Points** (des, pays) pour le transport
Les points pour le transport de la marchandise (des, pays)

4 Les dates de la prise en charge de la marchandise (des, pays, date) / **Dates** (des, pays) de la prise en charge de la marchandise (des, pays, date)

5 Description succincte de la marchandise / **Description** succincte de la marchandise

6 Nature et contenu des emballages / **Nature** et contenu des emballages

7 Nature de la marchandise / **Nature** de la marchandise

8 Date d'expédition / **Date** d'expédition

9 Date de réception / **Date** de réception

10 Description de la marchandise / **Description** de la marchandise

11 Type de la marchandise / **Type** de la marchandise

12 Nature et contenu des emballages / **Nature** et contenu des emballages

13 Instructions de l'expéditeur / **Instructions** de l'expéditeur

14 Description de la marchandise / **Description** de la marchandise

15 Description de la marchandise / **Description** de la marchandise

16 Description de la marchandise / **Description** de la marchandise

17 Description de la marchandise / **Description** de la marchandise

18 Description de la marchandise / **Description** de la marchandise

19 Description de la marchandise / **Description** de la marchandise

20 Description de la marchandise / **Description** de la marchandise

21 Description de la marchandise / **Description** de la marchandise

22 Description de la marchandise / **Description** de la marchandise

23 Description de la marchandise / **Description** de la marchandise

24 Description de la marchandise / **Description** de la marchandise

A **B** **C**

Signature et timbre de l'expéditeur / **Signature** et timbre de l'expéditeur

Signature et timbre du transporteur / **Signature** et timbre du transporteur

Signature et timbre du destinataire / **Signature** et timbre du destinataire

e-CMR Master Message

Supply Chain Consignment

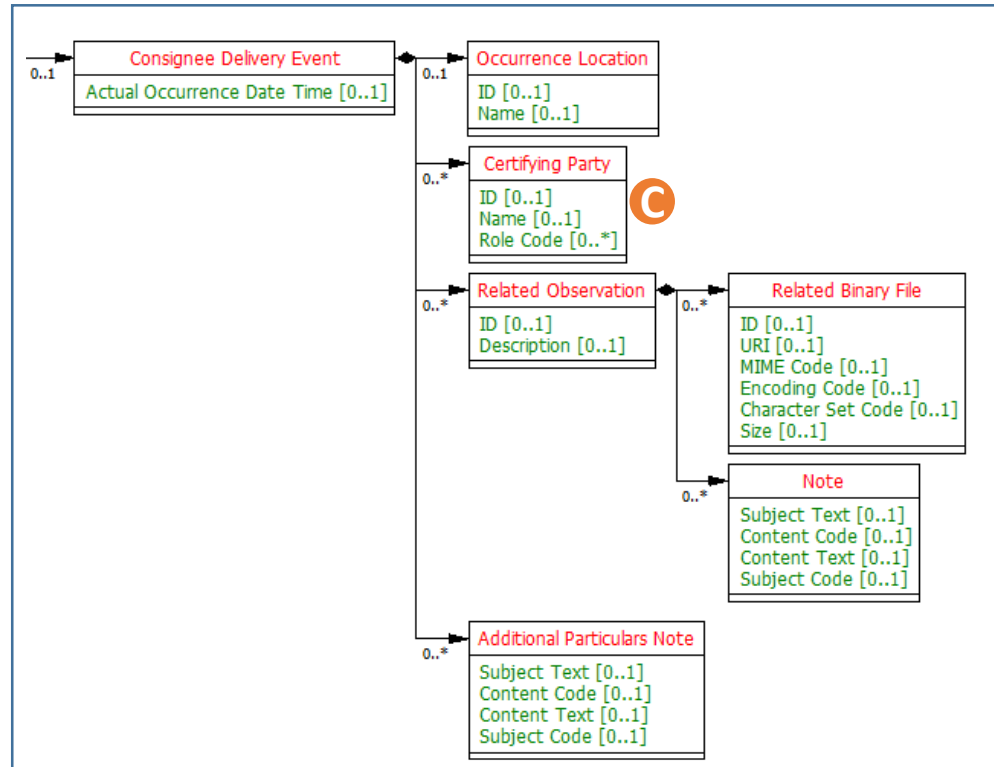
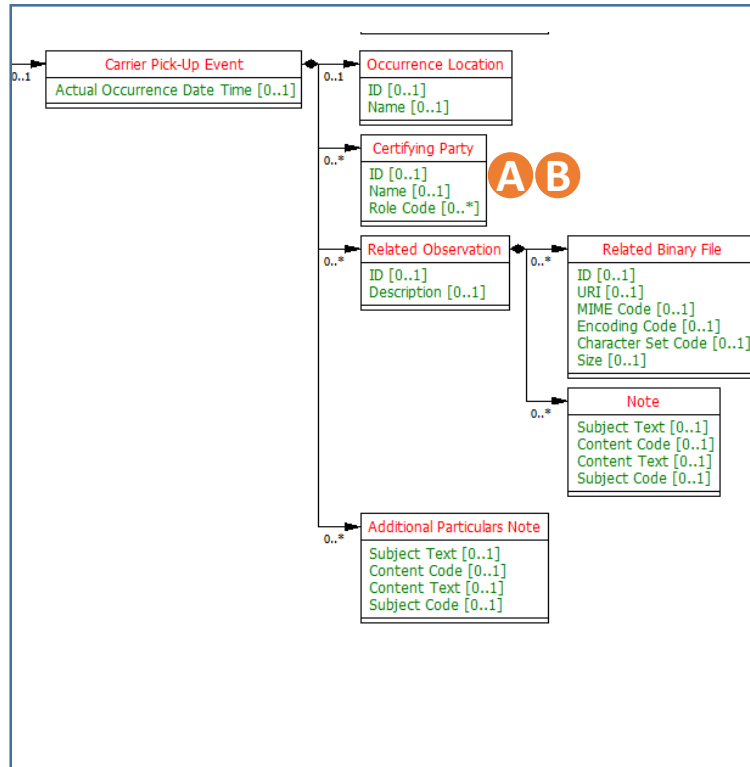
Included Consignment Item

A **B** Carrier Pick-Up Event

C Consignee Delivery Event

Main Carriage Transport Movement

e-CMR model (contractual events)



version 2.3 A sample book is in use en de manier / Au S-4vZ YN	A	B	C
22 Signature et timbre de l'expéditeur / Handtekening en stempel van de afzender / Unterschrift und Stempel des Absenders			
23 Signature et timbre du transporteur / Handtekening en stempel van de vervoerder / Unterschrift und Stempel des Frachtführers			
24 Merchandise receipt / Goederen ontvangen Lieu / Plaats Ort le / de van Signature et timbre du destinataire / Handtekening en stempel van de geadresseerde / Unterschrift und Stempel des Empfängers			

e-CMR model: Transit Declaration model of NCTS and of Eurasian Customs Union are taken into account

EUROPEAN COMMUNITY		DECLARATION TYPE (1)		MRN																																																				
TRANSIT/SECURITY ACCOMPANYING DOCUMENT	Consignor/Exporter (2)	Other SCI (532)	Form (3)	Sec Desc (305)																																																				
	Consignee (8)	Items (5)	Total packages (6)	Gross mass (Kg) (35)																																																				
	Date and time of arrival at first place of arrival in customs territory (312)	Reference Numbers (7)																																																						
	Transport Charges Method of Payment (529)	Return copy has to be sent to the office																																																						
	Identity and nationality of means of transport at departure (16)	Other incidents during carriage Details and measures taken (56)																																																						
	Identity and nationality of active means of transport crossing the border (21)	CERTIFICATION BY COMPETENT AUTHORITIES (4)																																																						
	Mode of transport (25)	Location of goods (30)																																																						
	Place of loading (517)	Place of unloading (518)																																																						
	Place of unloading (518)	Countries of routing codes (513)																																																						
	TRANSIT/SECURITY LIST OF ITEMS		Form (3)	MRN																																																				
<table border="1"> <thead> <tr> <th colspan="4">Goods details</th> </tr> </thead> <tbody> <tr> <td>Consignor/Exporter (2)</td> <td>Consignee (8)</td> <td colspan="2"></td> </tr> <tr> <td>Consignor (security) (504)</td> <td>Consignee (security) (506)</td> <td colspan="2"></td> </tr> <tr> <td>Produced documents / certificates (441)</td> <td>Summary declaration/Previous document (40)</td> <td colspan="2"></td> </tr> <tr> <td>Identity and nationality of means of transport at departure (16)</td> <td>Special mentions (442)</td> <td colspan="2"></td> </tr> <tr> <td>Identity and nationality of active means of transport crossing the border (21)</td> <td>Unique consignment reference number (7)</td> <td colspan="2"></td> </tr> <tr> <td>Place of unloading (518)</td> <td>Container numbers (513)</td> <td>Seal Number (528)</td> <td></td> </tr> <tr> <td></td> <td>Commodity Code (33)</td> <td>Gross mass (kg) (35)</td> <td></td> </tr> <tr> <td>UN/EDG (44)</td> <td>Sensitive quantity (515)</td> <td>Sensitive code (514)</td> <td>Type CH-M Play code (529)</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DECLARATION TYPE (1)</td> </tr> <tr> <td></td> <td></td> <td></td> <td>15 C disp exp Code</td> </tr> <tr> <td></td> <td></td> <td></td> <td>C Dest Code (17)</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Net mass (kg) (36)</td> </tr> </tbody> </table>					Goods details				Consignor/Exporter (2)	Consignee (8)			Consignor (security) (504)	Consignee (security) (506)			Produced documents / certificates (441)	Summary declaration/Previous document (40)			Identity and nationality of means of transport at departure (16)	Special mentions (442)			Identity and nationality of active means of transport crossing the border (21)	Unique consignment reference number (7)			Place of unloading (518)	Container numbers (513)	Seal Number (528)			Commodity Code (33)	Gross mass (kg) (35)		UN/EDG (44)	Sensitive quantity (515)	Sensitive code (514)	Type CH-M Play code (529)				DECLARATION TYPE (1)				15 C disp exp Code				C Dest Code (17)				Net mass (kg) (36)
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Included Consignment Item

ID [0..*]
 Sequence Number [1..1]
 Goods Type Code [0..1]
 Invoice Amount [0..1]
 Gross Weight [1..1]
 Gross Volume [0..1]
 Additional units of measurement [0..1]
 Global ID [0..1]

Goods Description

Identification Text [0..1]

Transport Dangerous Goods

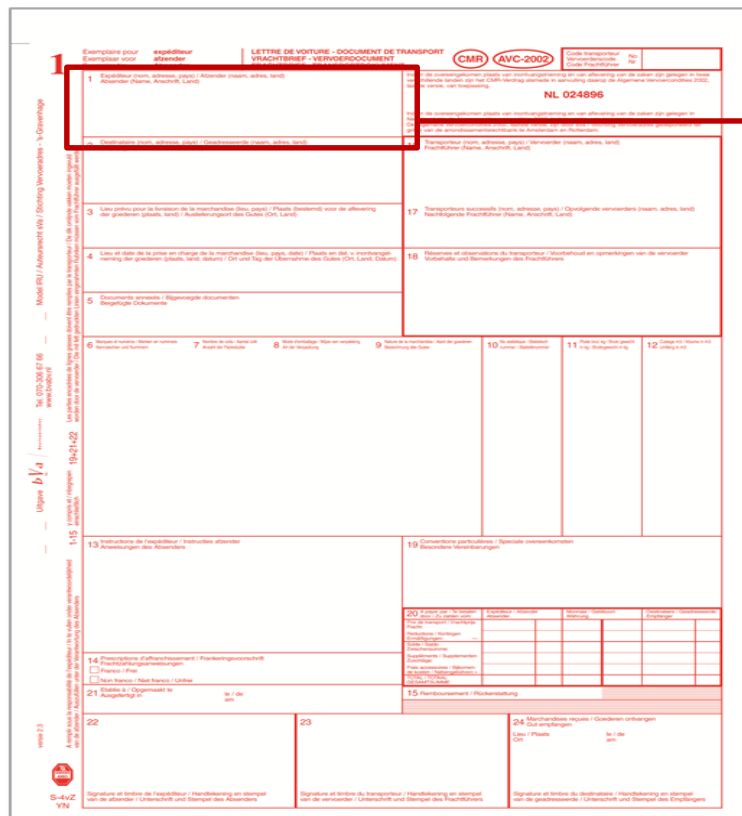
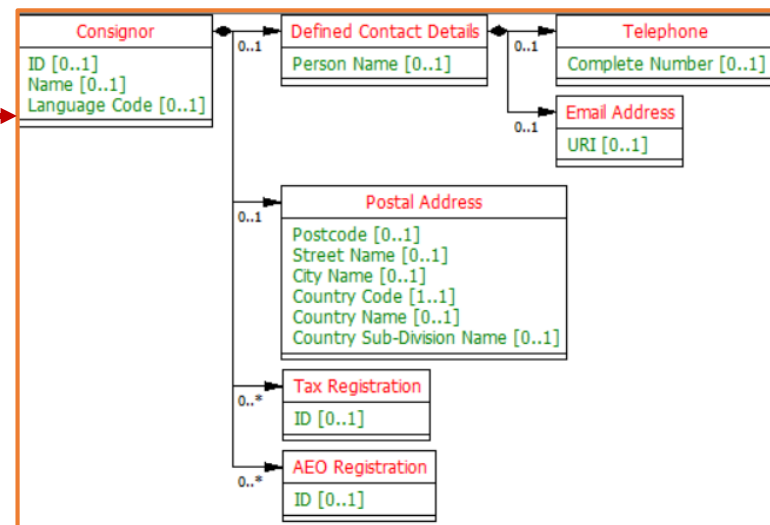
UN/EDG ID [1..1]
 Technical Name [0..1]
 Packaging Danger Level Code [0..1]

Transport Package

Item Quantity [0..1]
 Level Code [0..1]
 Type Code [0..1]
 Type Text [0..1]
 ID [0..1]

Additional Particulars Note

e-CMR model: CMR Convention requirements taken into account

Each object in the eCMR structure has a unique Dictionary Entry Name plus a business short name for readability.

Based upon the UN/CEFACT Core Component Library (CCL), the MultiModal Transport Reference Data Model (MMT) and the Supply Chain Reference Data Model (SCRDM).

For more information

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