

# DGMOVE DTLF Meeting

Brussels

26 April 2017

UN/CEFACT e-CMR  
Project Introduction

by

Sue Probert

Vice-Chair SHIP PDA

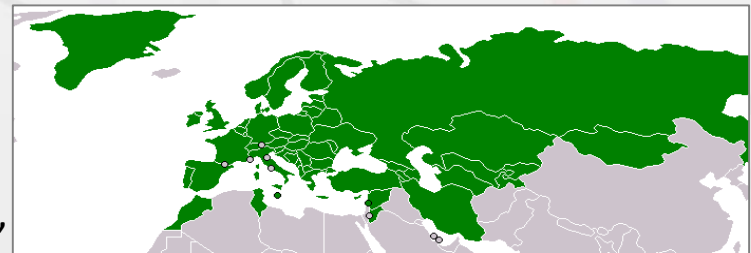


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- UN/CEFACT e-CMR project and its deliverables
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# CMR Background

- 1956 – CMR convention adopted
- 1976 – Model CMR consignment note developed by IRU, in cooperation with the International Chamber of Commerce (ICC)
- 2007 – Model CMR consignment note updated by IRU and is now used by most, if not all parties to contracts of carriage in CMR contracting countries.
- 2008 – Additional Protocol added to the CMR, considering electronic consignment note (e-CMR)



# e-CMR protocol adopted by 11 countries

United Nations Economic Commission for Europe

**Invitation**  
to a Signing Ceremony  
for the

**Electronic Contract for the International  
Carriage of Goods by Road (e-CMR)**

**To e-CMR**  
The natural technological development of the 21st century with:  
➤ Faster and more efficient information transfer  
➤ Reliable and secure data exchange  
➤ Inalterability of the message  
➤ Less labour intensive  
➤ Less expensive

**From CMR**  
A paper-based system which is:  
Time-consuming  
Human resource intensive  
Needlessly expensive

**Benefits**  
Enhanced commercial relations for the public and private sectors with:  
➤ Reduced scope for human error and manipulation  
➤ Understanding and acceptance of the message by the consignee  
➤ Identification of the parties and signature authentication  
➤ Advances e-governance - a key characteristic of modern economies

So far, 12 initial countries have declared their intention to sign. The Protocol shall enter into force on the ninetieth day after five of the States have deposited their instruments of ratification or accession.  
Delegates must have full powers to be able to sign the Protocol. According to the Vienna Convention on the Law of Treaty, 1969, "full powers" means a document emanating from the competent authority of a State designating a person or persons to represent the State for negotiating, adopting or authenticating the text of a treaty, for expressing the consent of the State to be bound by a treaty or for accomplishing any other act with respect to a treaty. Only authorized representatives of the Contracting Parties to the CMR Convention can sign this Additional protocol.

**When**  
Tuesday 27 May 2008 at 10.00

**Where**  
Salle V, Palais des Nations, Geneva

**For more information:**  
Mrs. Virginia Tanase - Tel: +41 (0) 22 917 3389 - Email: [infotransport@unece.org](mailto:infotransport@unece.org) - [www.unece.org/trans](http://www.unece.org/trans)  
The Protocol will be open for signature from 27 to 30 May 2008 in Geneva, and after this date, at United Nations Headquarters in New York until 30 June 2009 inclusive. On 27 May a signing ceremony will be organized at the Palais des Nations.



# Additional countries considering to ratify

United Nations Economic Commission for Europe

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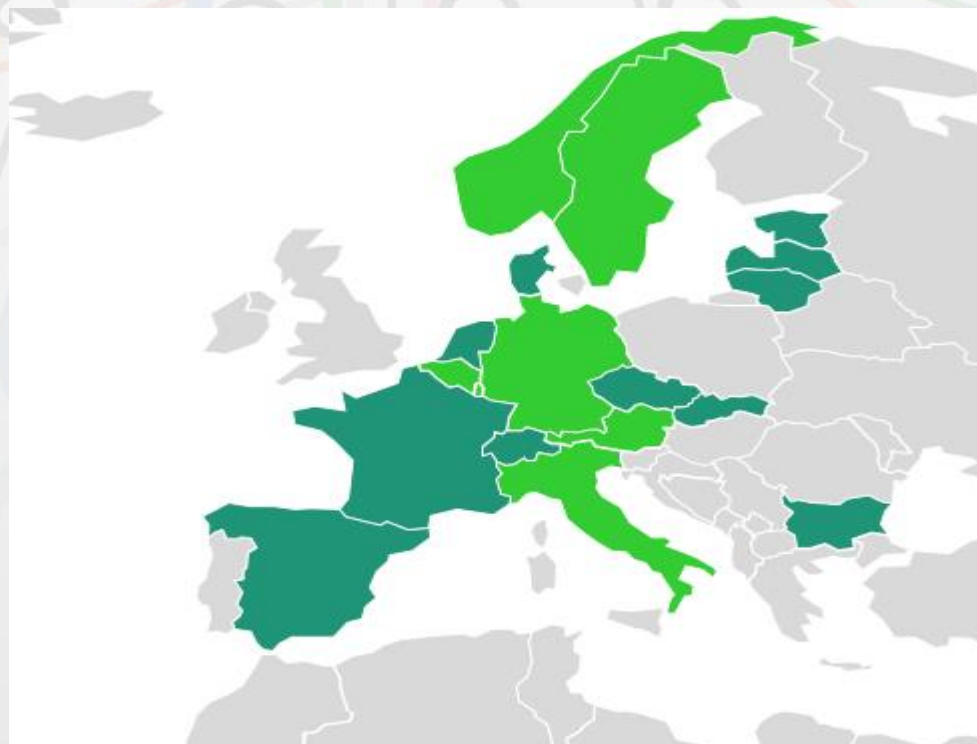
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# Challenge: Interoperability of e-CMR solutions

## CMR convention

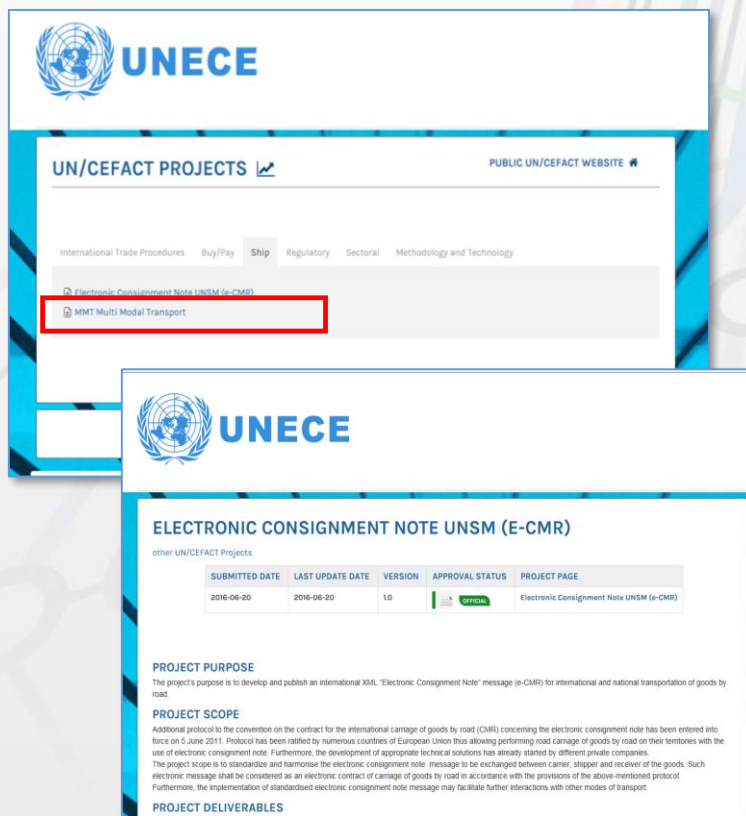
- Content of CMR document
  - Date and time
  - Name and address of carrier, sender, consignee
  - The description of nature of goods, method of packing ...
  - Number of packages
  - Charges related to carriage
  - etc.

## e-CMR 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



## e-CMR project deliverables:

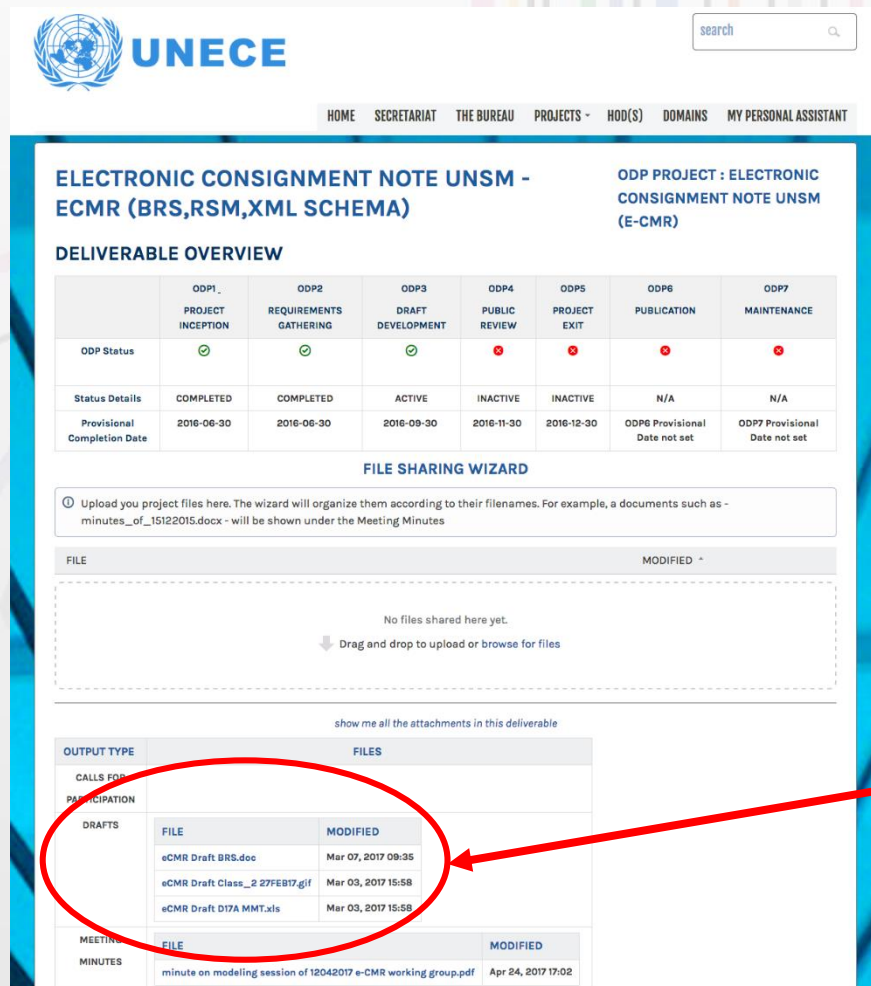
- Business Requirements Specification (BRS) for Electronic Road Consignment Note (e-CMR) based on the high-level MMT BRS
- Subset exchange syntax-neutral message structures for e-CMR
- XML schemas of the e-CMR messages
- Mapping to the relevant existing UN/EDIFACT UNSM (IFTMIN)

e-CMR project supported by:    

## Project Team:

- Project leader: Evgeniya Iafae, International Road Transport Union, Switzerland
- Lead Editor: Rudy Hemeleers, Luxembourg
- Editor: Bérangère COUPET MAISONNAVE, France
- Experts:
  - Thierry Grumiaux, France
  - Gianguglielmo Calvi, Italy
  - Sue Probert, UK
 plus others

# UN/CEFACT CUE Project Page for e-CMR



The screenshot shows the UNECE website header with a search bar and navigation links: HOME, SECRETARIAT, THE BUREAU, PROJECTS - HOD(S), DOMAINS, MY PERSONAL ASSISTANT. The main content area is titled "ELECTRONIC CONSIGNMENT NOTE UNSM - ECMR (BRS,RSM,XML SCHEMA)" and "ODP PROJECT : ELECTRONIC CONSIGNMENT NOTE UNSM (E-CMR)". Below this is a "DELIVERABLE OVERVIEW" table.

	ODP1 PROJECT INCEPTION	ODP2 REQUIREMENTS GATHERING	ODP3 DRAFT DEVELOPMENT	ODP4 PUBLIC REVIEW	ODP5 PROJECT EXIT	ODP6 PUBLICATION	ODP7 MAINTENANCE
ODP Status	✓	✓	✓	✗	✗	✗	✗
Status Details	COMPLETED	COMPLETED	ACTIVE	INACTIVE	INACTIVE	N/A	N/A
Provisional Completion Date	2016-06-30	2016-06-30	2016-09-30	2016-11-30	2016-12-30	ODP6 Provisional Date not set	ODP7 Provisional Date not set

Below the table is a "FILE SHARING WIZARD" section with instructions: "Upload your project files here. The wizard will organize them according to their filenames. For example, a documents such as - minutes\_of\_15122015.docx - will be shown under the Meeting Minutes". It includes a "FILE" input field and a "MODIFIED" dropdown.

At the bottom, there is a section titled "show me all the attachments in this deliverable" with a table of drafts:

OUTPUT TYPE	FILES								
CALLS FOR PARTICIPATION									
DRAFTS	<table border="1"> <thead> <tr> <th>FILE</th> <th>MODIFIED</th> </tr> </thead> <tbody> <tr> <td>eCMR Draft BRS.doc</td> <td>Mar 07, 2017 09:35</td> </tr> <tr> <td>eCMR Draft Class_2 27FEB17.gif</td> <td>Mar 03, 2017 15:58</td> </tr> <tr> <td>eCMR Draft D17A MMT.xls</td> <td>Mar 03, 2017 15:58</td> </tr> </tbody> </table>	FILE	MODIFIED	eCMR Draft BRS.doc	Mar 07, 2017 09:35	eCMR Draft Class_2 27FEB17.gif	Mar 03, 2017 15:58	eCMR Draft D17A MMT.xls	Mar 03, 2017 15:58
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minute on modeling session of 12042017 e-CMR working group.pdf	Apr 24, 2017 17:02								

A red circle highlights the "DRAFTS" section, and a red arrow points from the text "Draft deliverables published" to the highlighted area.

## Collaborative UN/CEFACT Environment

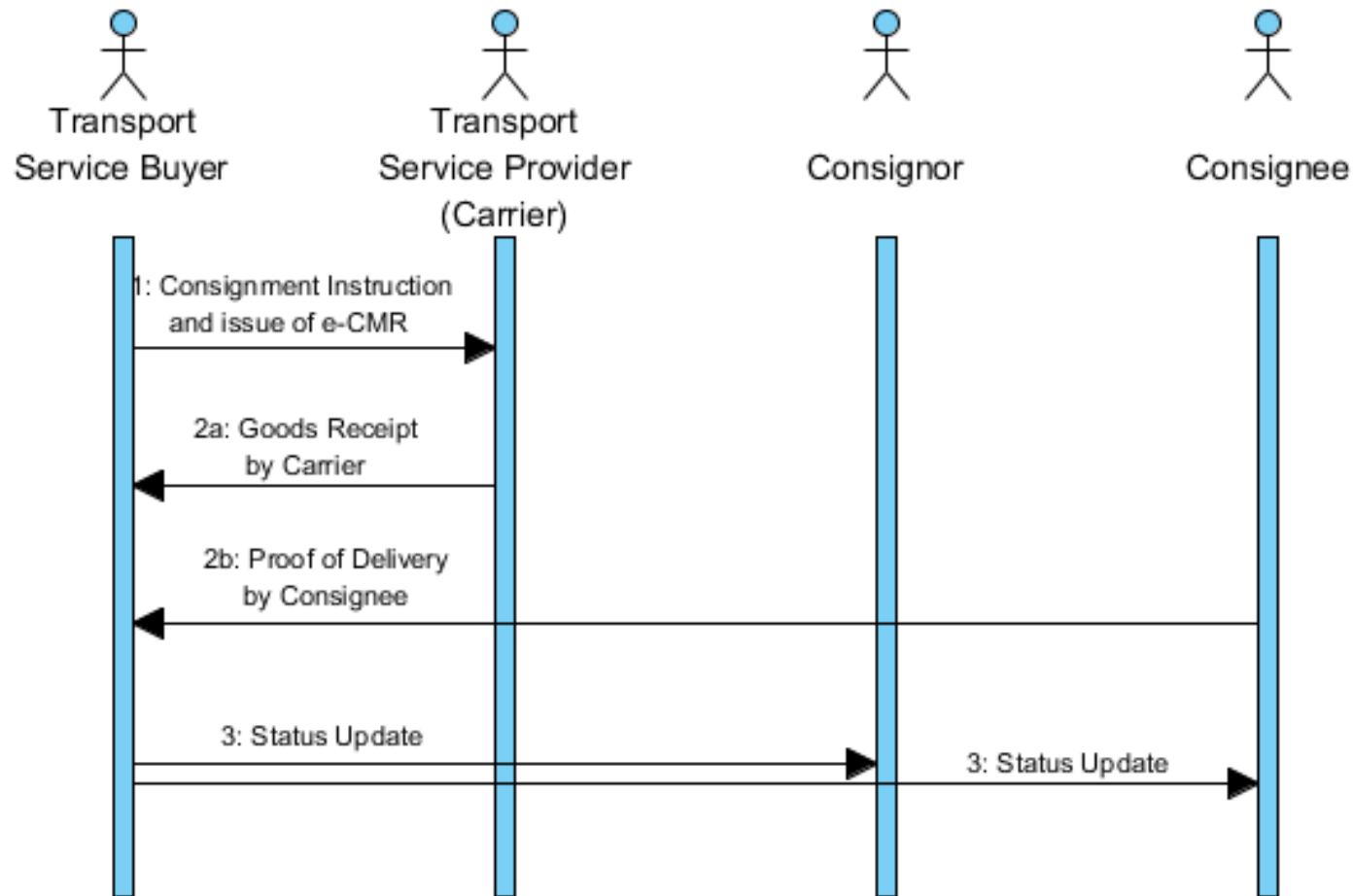
- CUE environment open for all registered UN/CEFACT Experts
- Each project has own pages
- <https://www2.unece.org/cefact/>

Draft deliverables published

# UN/CEFACT e-CMR Business Terms

Term	Definition
Transport Services Buyer (Consignor or Consignee)	The buyer of transport services as stipulated in a contract of carriage by road (e-CMR).
Transport Services Provider (Carrier)	The provider of transport services as stipulated in a contract of carriage by road (e-CMR).
Consignor	The party consigning goods as stipulated in a contract of carriage by road (e-CMR).
Consignee	The party receiving a consignment of goods as stipulated in a contract of carriage by road (e-CMR).
Carrier / subsequent carrier	The party which provides transport services.
Despatch place	The party where goods are collected or taken over by the carrier. Operational term is 'Pick-up Place'.
Delivery Party	The party to which goods should be delivered by the carrier. Operational term is 'Place of Positioning'.
Contract of carriage by road (e-CMR)	Means a contract in which a transport company, against the payment of freight, undertakes to carry goods from one place to another.
Consignment	A consignment is a separately identifiable collection of Consignment Items (available to be) transported from one Consignor to one Consignee as specified in one single e-CMR.

# UN/CEFACT e-CMR project focus

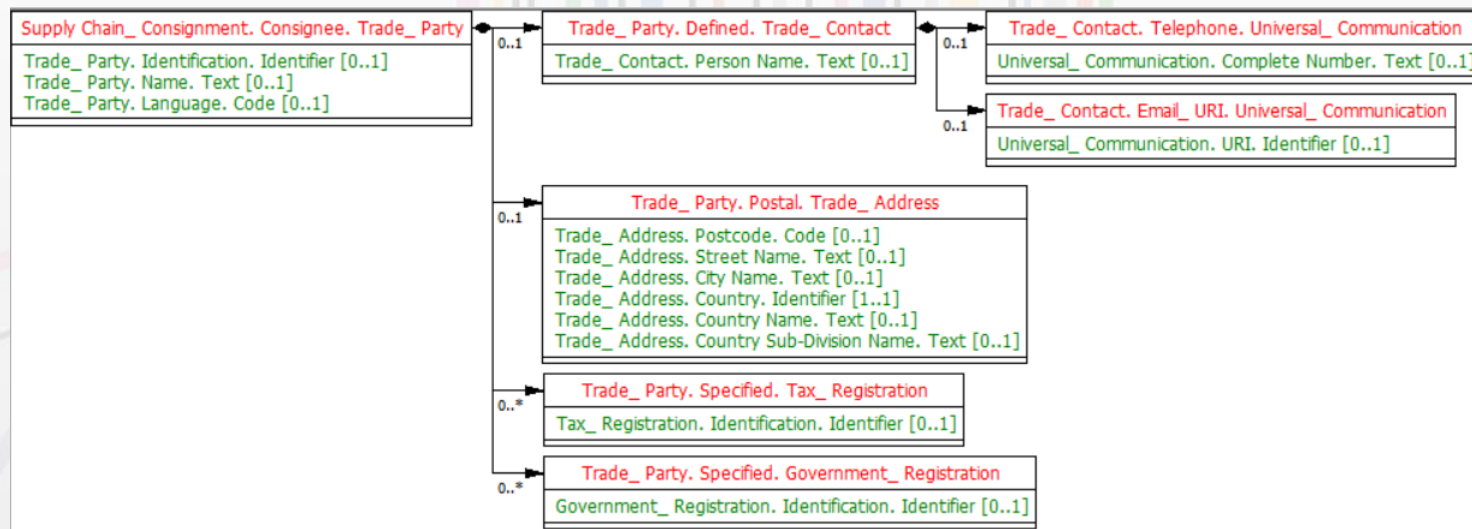


# e-CMR use cases

	Use case	Scenario	Result
1	Consignment instructions and Issuance of e-CMR	The Transport Service Buyer provides the detailed instructions and either the Transport Service Provider or the Transport Service Buyer issues an e-CMR for the transport of a consignment.	An e-CMR issued by the Transport Service Buyer or by the Transport Service Provider to be used during the movement of the goods
2	Movement of the Goods	<p>The Carrier picks-up or receives the consignment from the Consignor, takes over the consignment from the Consignor and if necessary receives additional documentation to be transported with the consignment. The Consignor may inform the Consignee of the dispatch of the consignment.</p> <p>The carrier moves the consignment, delivers it to the Consignee and collects the Proof of Delivery from the Consignee.</p> <p>The Consignor receives electronic confirmation of the receipt of the consignment by consignee.</p>	<p>The consignment is delivered to the Consignee.</p> <p>The Proof of Delivery is provided by the Consignee to the Carrier.</p>
3	Consignment status reporting	<p>The status report is sent upon the following events:</p> <p>Upon issuance of e-CMR</p> <p>Upon consignment pick-up</p> <p>Upon consignment delivery to consignee</p>	<p>The consignment has been delivered.</p> <p>All statuses of the consignment during its movement have been reported.</p>

# e-CMR model: Party Details

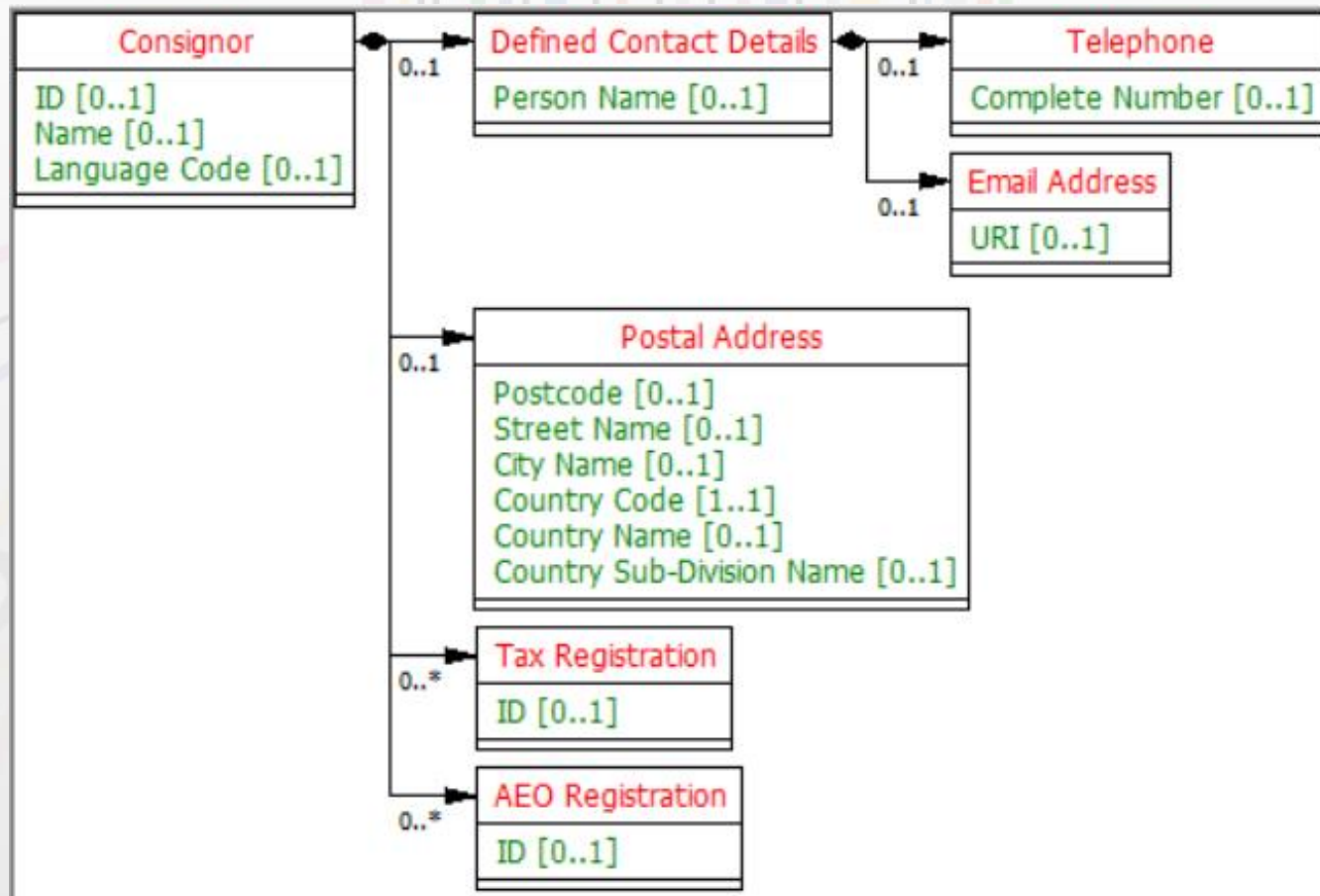
## – Core Component MMT Multimodal Foundation



Each object in the eCMR structure has

- a unique Dictionary Entry Name (DEN) plus a business short name for readability
- The DEN is used in the XML schema design for DE unique tags
- The DEN ensures compatibility with the UN/CEFACT Core Component Library (CCL), the multimodal MMT and the supply chain SCRDM Reference Data Model
- The business short name is used during project development and deliverables reviews by business focussed experts

# e-CMR model: Party Details – Business View

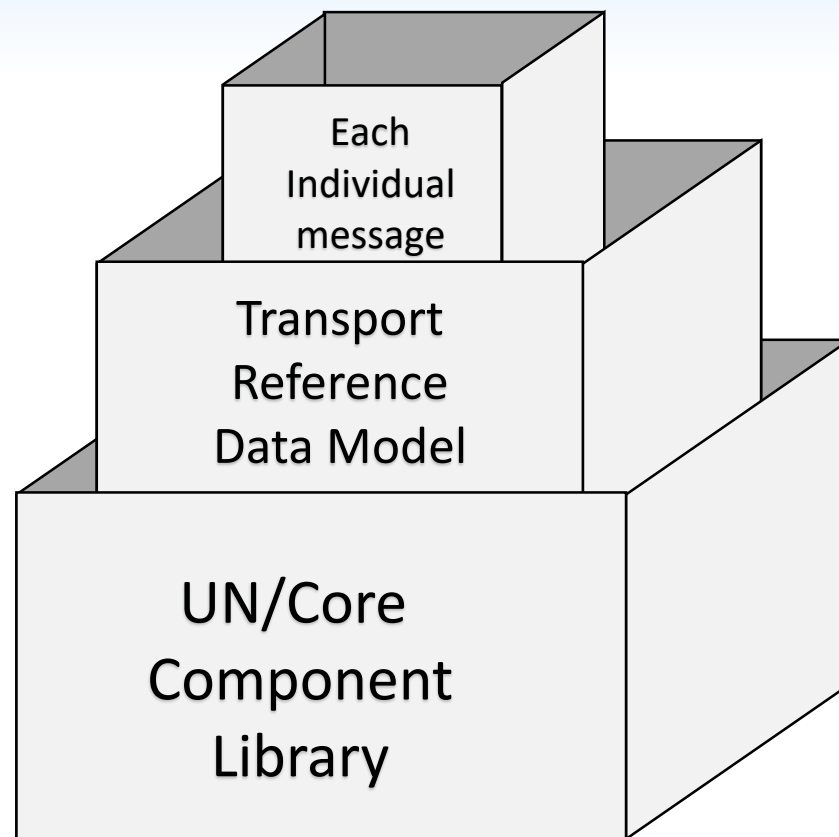


These party details are reused for all parties – transport services buyer, consignor, consignee, carrier, subsequent carrier



## MMT Project Purpose

- The MMT project is creating a limited structured subset of the UN/CCL
  - Only 132 ABIEs needed for the project scope
- Providing semantic links with EDIFACT implementations
- eCMR project
- Data pipeline structure project for standardized provision of pre-arrival data to regulatory agencies in line with the EU Cassandra, CORE and SELIS projects





## MMT Project Goals

- Providing Exchange Syntax Neutral Reference Data Model for Supporting Domain Data Exchange Interoperability
- Supporting Cross-Border Regulatory Interfaces
- Providing mappings to/from UN/EDIFACT message implementations
- Providing mappings to Related Data Models
- Generating equivalent interoperable XML message schemas

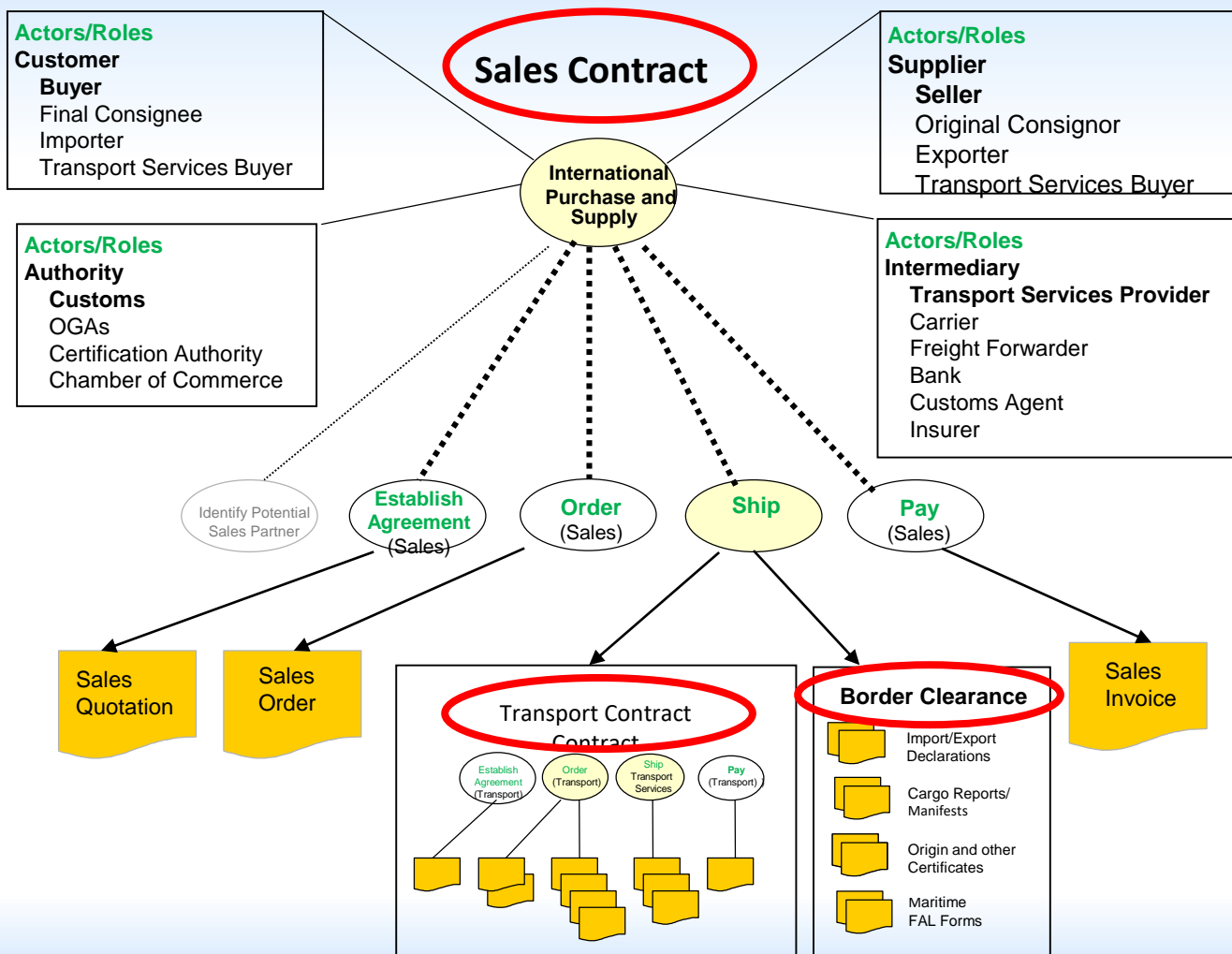


## MMT Project Contributions

- UN/CEFACT Core Components Library – CCL v2.01
- UNECE Recommendations and Code Lists
- UN/EDIFACT EDI documents/messages relating to Road, Maritime and Air Transport, Railroad, Authorities, including IMO FAL Forms
- Recommendations from ITIGG ((International Transport Implementation Guidelines Group)
- Guide to the UN/EDIFACT containers messages
- UN/CEFACT BRS for International Forwarding and Transport
- WCO Data Model
- EU CORE Work Package 10 data pipeline carrier
- IATA CargoXML
- Sister project SCRDM (Supply Chain Reference Data Model)
- Plus others as become available



## The Relationship between the Sales and Transport Service Contracts





## Basis for Semantic Interoperability

### Agreed and Harmonised

- Party and Role Definitions
- Semantic Anchors
- Message Structures
- Contextualised Code Subsets
- Contextualised Business Rules



# Semantic Anchors – Key Example

## Shipment

A shipment is an identifiable collection of one or more Trade Items (available to be) transported together from the Seller (Original Consignor/Shipper), to the Buyer (Final/Ultimate Consignee):

- A Shipment can only be destined for one Buyer
- A Shipment can be made up of some or all Trade Items from one or more Sales Orders
- A Shipment can have only one Customs UCR
- A shipment may form part or all of a Consignment or may be transported in different Consignments.

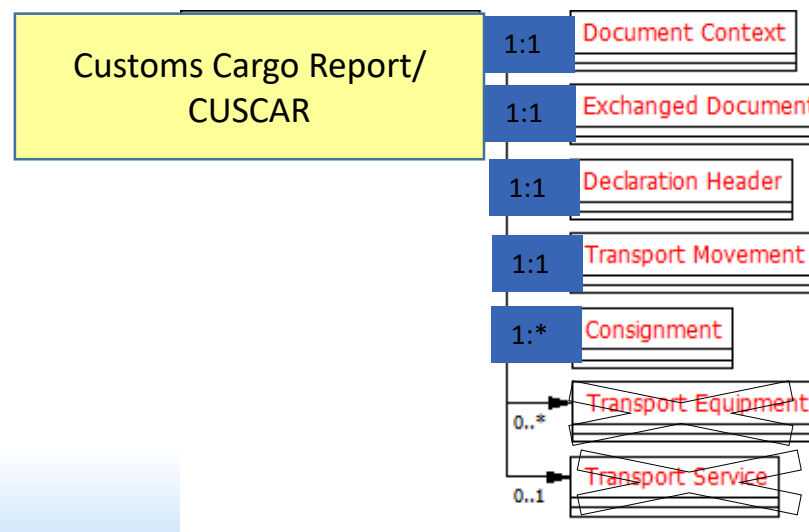
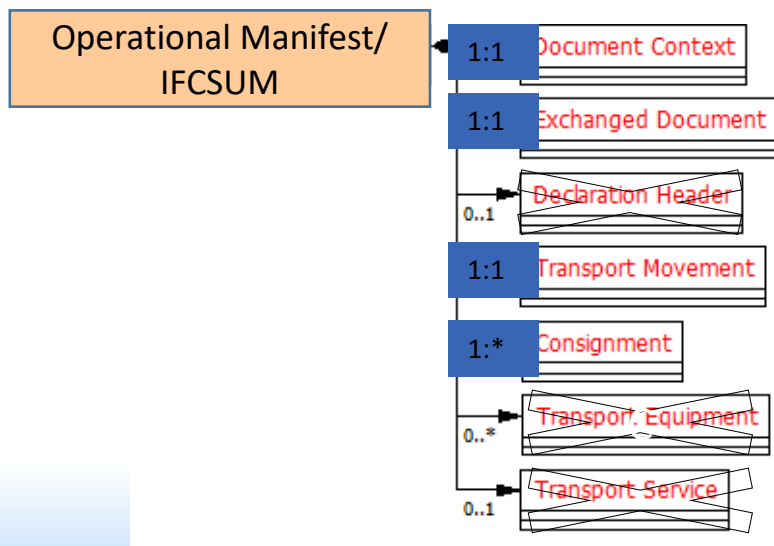
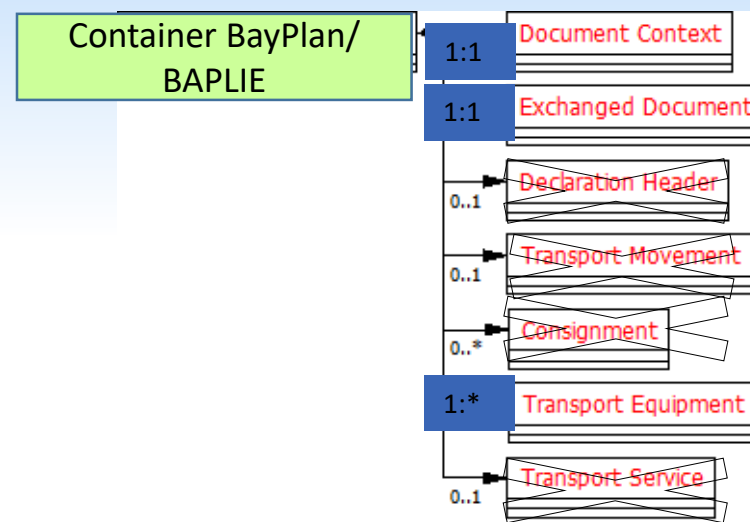
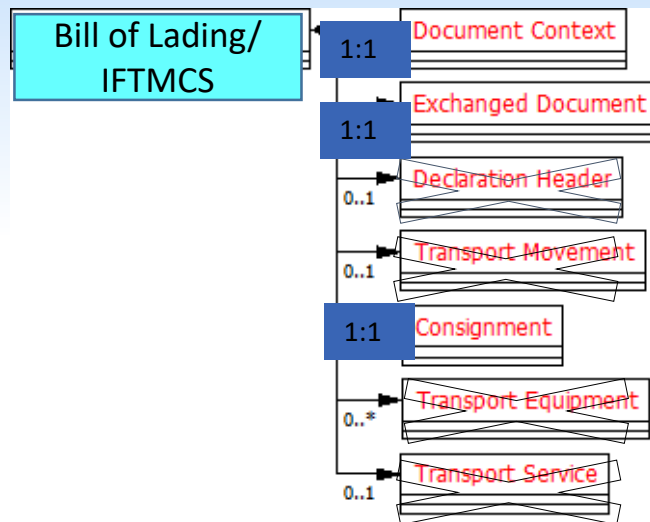
## Consignment

A consignment is a separately identifiable collection of Consignment Items (available to be) transported from one Consignor to one Consignee via one or more modes of transport as specified in one single transport service contractual document:

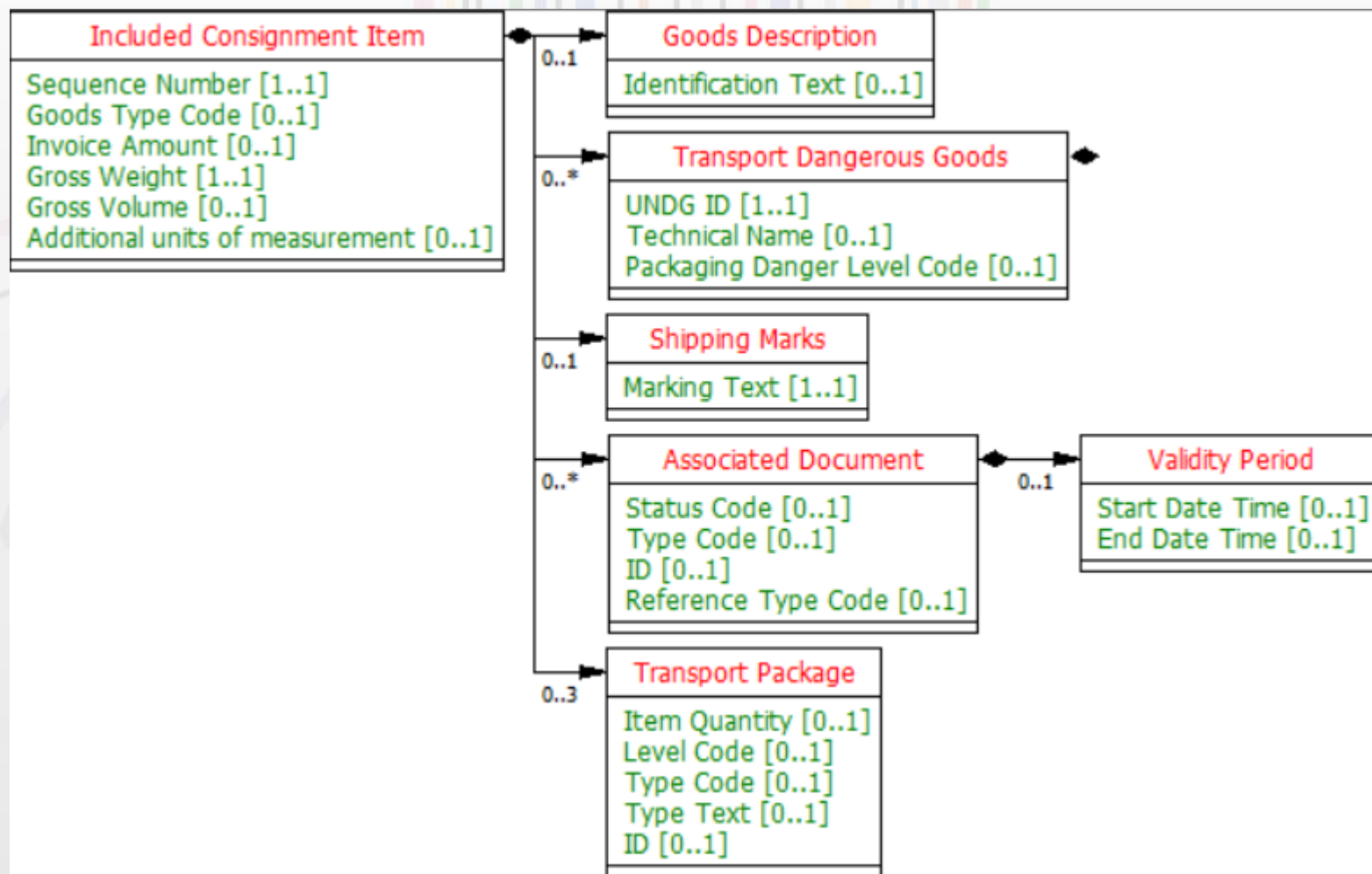
- A Consignment can only have one Transport Service Buyer
- A Consignment can only have one Transport Service Provider
- A Consignment can only have one Consignor
- A Consignment can only have one Consignee
- The Transport Service Buyer can be either the Consignor or the Consignee
- A Consignment is made up of one or more Consignment Items
- A Consignment can be made up of some or all Trade Items (aggregated into Consignment Items) from one or more Shipments



## MMT Subset Message Structures



# e-CMR model: Goods Details – Business View



# Current Project Status

- Business Requirements Specification almost ready for public review *Goal: 2 month Public Review launched end July 2017*
  - Use case 1: consignment instructions and Issuance of e-CMR
  - Use case 2: movement of goods
  - Use case 3: consignment status reporting
- Draft e-CMR model ready for revision  
*Goal: Public Review launch by end 2017*
- Subsequent messages under preparation  
*Goal: Public Review launch by end 2017*

# How to review UN/CEFACT e-CMR project deliverables?

1. Join project as individual project member
  - Enables review at all internal development stages
2. Review at Public Review project stage
  - Typical Public Review period 2 months
  - Launch announced on UN/CEFACT website  
<http://www.unece.org/cefact>
  - Public Review package published including comment templates

# How to participate in the e-CMR project work?

1. Register as individual UN/CEFACT expert
2. Subscribe to e-CMR project and inform Project leader
3. Sign on to UN/CEFACT collaboration environment
4. Useful Links
  - Registration forms <https://www2.unece.org/cefact/display/uncefactpublic/Apply+for+a+membership>
  - List of HoDs [http://www.unece.org/cefact/forum\\_grps/secretariat/hodlist.html](http://www.unece.org/cefact/forum_grps/secretariat/hodlist.html)

## For more information

Contact:

Project Leader

Evgeniya Iafaev ([Evgeniya.lafaev@iru.org](mailto:Evgeniya.lafaev@iru.org))

or

Sue Probert ([sue.probert@sepiaeb.com](mailto:sue.probert@sepiaeb.com))