CBM-RDM Reference Data Model

Project Context and Scope
CBM RDM Project: Purpose and Objectives

The CBM RDM:

• **Provides** a Regulatory Reference Data Model within the UN/CEFACT semantic library to assist authorities link this information to the standards of other organizations.

• **Delivers** a RDM to cover the trade and transport-related processes of cross-border supply chain, the main parties and the information involved.

• **Links** the BSP, SCRDM and MMT RDM with existing customs standards based on the developing (EUCDM) standard, sharing base of components the UN Core Component Library (UN CCL).

• **Creates a subset of the UN CCL** showing the shared aspects between the international supply chain and transport-logistics chains and the agency driven data models (EUCDM).

[https://uncefact.unece.org/display/uncefactpublic/Cross-Border+Management+Reference+Data+Model](https://uncefact.unece.org/display/uncefactpublic/Cross-Border+Management+Reference+Data+Model)
CBM-RDM as part of UN/CEFACT ISC RDM Family

- UN/CEFACT Reference Data Models (RDMs) provide a comprehensive subset of the UN/CCL and Code Lists.
- CBM-RDM will expand/link to data models based in well established:
  - Buy-Ship-Pay (BSP) which is the top level;
  - Supply Chain Management (SCRDM);
  - Multimodal Transport (MMT RDM).

- Buy-Ship-Pay RDM
- Supply Chain RDM
- Multimodal Transport RDM
- Cross-Border Management RDM
UN/CEFACT International Supply Chain Process Model

INVOLES

BUY
- Prepare for Export
  - Commercial Procedures
    - Establish Contract
    - Order Goods
    - Advise On Delivery
    - Request Payment
    - Packing
    - Inspection
    - Certification
    - Accreditation
    - Warehousing

SHIP
- Export
  - Transport Procedures
    - Establish Transport Contract
    - Collect, Transport and Deliver Goods
    - Provide Waybills, Goods Receipts Status reports etc.

PAY
- Prepare for Import
  - Regulatory Procedures
    - Obtain Import/Export Licences etc.
    - Provide Customs Declarations
    - Provide Cargo Declarations
    - Apply Trade Security Procedures
    - Clear Goods for Export/Import
    - Cross Border Management

- Import
  - Financial Procedures
    - Provide Credit Rating
    - Provide Insurance
    - Provide Finance
    - Execute Payment
    - Issue Statements

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ISCRM model: Basis of RDMs

Cross Border Buy/Ship/Pay

- Identify Potential Trading Partner
- Check Credit
- Establish Agreement (Sales)
- Order (Sales)
- Ship (Transport/Border Clearance)
- Manufacture
- Pay (Sales)

- Buyer
- Seller
- Customer
- Authority
- Intermediary
- Manufacturer
- Supplier

- Invoicee
- Payor
- Importer
- Consignee
- Transport Services Buyer
- Freight Forwarder

- Transport Services Provider
- Carrier
- Freight Forwarder
- Bank
- Credit Agency
- Customs Agent
- Insurer
- etc.

- Customs
- OGA
- Chambers of Commerce
- Port Health
- Inspection
- Licencing
- etc.
UN/CEFACT BSP model and the ISC procedures
UN/CEFACT BSP Model

Buy

Agree Contract (Payment and Delivery Terms...)

Place, Confirm or Revise Order

Prepare for Export

Book Transport Services

Insure Cargo

Make Customs Declaration

Obtain Export Credit Guarantee

Obtain Export Licence, etc.

Prepare for Export

Export

Process Goods Declaration

Process Cargo Declaration

Apply Security Checks

Clear Goods

Transport

Collect Goods

Transport and Deliver Goods

Provide Waybills, Goods Receipts, Status Reports, etc.

Provide Cargo Declaration

Advise Despatch

Prepare for Import

Import

Obtain Import Licence, etc.

Process Import Declaration

Book Transport

Establish Credit

Check Security

Release Goods

Pay

Request Payment (Invoice)

Order Payment

Execute Payment

Issue Statement
CBM-RDM Reference Data Model

Reference Data Models Semantics
RDM Semantics and Core Vocabularies

- Core Vocabularies context-neutral semantic building blocks that can be extended into context-specific data models.
- UN/CEFACT Core Component Technical Specification is a Core Vocabulary!

Core data model: a context-neutral data model that captures the fundamental characteristics of an entity. The Core Vocabularies are at this level.

Domain data models: a data model modelling a particular domain (e.g. the justice domain, the healthcare domain, Supply Chain, Multimodal Transport, Certificates) that identifies the entities involved and their relationships.

Information exchange data models: a data model that defines and describes the structure and content of information that is exchanged between organisations in a specific information exchange context.
UN/CEFACT RDMs

- UN/CEFACT RDMs and domain Models are not ‘plain’ vocabularies.
- Their creation and update process is based in a certain requirements specifications and delivery lifecycle supported by UMM.
- They are modelled around document structures which are always addressing/implement specific business processes.
- They are consistently maintained which is storing rich metadata information around concepts.
UN/CEFACT Reference Data Model Semantics

Benefits of UN/CEFACT Semantic Reference Data Models

• Subsets of CCL Business Information Entities by Context.

• Support **information sharing** with the timely capture of quality data from original data sources ensuring supply chain visibility.

• **Standardized data exchange structures**, based on common master data exchange structure and independent of exchange syntax.

• **Reduction of administrative burden** by efficient reuse of data shared within a contextualized domain model i.e. CBM-RDM.
ISC B2B Data Exchange Document Structures Families

- Trade Documents – Quotation, Order, Invoice etc.
- Materials Management Documents – Despatch Advice, Pick List, Packing List etc.
- Transport Documents – Bill of Lading, Shipping Instructions etc.
- Customs Documents – Export, Import, Transit Declarations, Cargo Reports etc.
- Other Regulatory Documents – Cert of Origin, etc.
Document Families - Border Management Challenges

- Trade
- Materials Management
- Transport
- Payment
- Insurance
- Other Cross-Border Agencies
- UN/CEFACT Buy/Ship/Pay
- UN/CEFACT eCerts
- Standard Customs Data Models (EUCDM Data Model)
- Customs

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Top Level BSP Business Entities - Relationships

Buy/Ship/Pay - Cross-Border Trade, Transport & Customs Business Entity Overview

Trade Data
- Customs Item Details (Trade)
  - Customs Item Identification Identifier
  - Import/Export Declaration Details
  - Declaration Identification Identifier

Transport Data
- Customs Item Details (Transport)
  - Customs Item Identification Identifier
  - Cargo Report Details
  - Cargo Report Identification Identifier

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Top Level BSP Business Entities - Relationships
BSP Semantics

Shipments (Trade Delivery)
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 *Unique Consignment Reference* (*UCR*).
- A *shipment* may form part or all of a *consignment* or may be transported in different consignments.

Trade Item
A *trade item* describes the lowest level of "commercial" information in a *sales order* between the *buyer* and the *seller*. Each *trade item* will usually be associated with a particular *product* or *service* and will include details such as *product code*, *quantity* and *unit price*, etc. In the case of cross-border orders each product will also have an associated *customs tariff code*.

- A single *trade item* is related to one *shipment*.
- *Trade items* are aggregated by *tariff code/packaging* into *consignment items*. 
BSP Semantics

Consignment (Transport Service Order)
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 contract document.

- A consignment can only have one consignor (TSP) and one consignee (TSB). A transport service buyer can be either the consignor or the consignee.
- A consignment may refer to one or more shipments.
- 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.
- A consignment relates to transport equipment used for the implementation of the transport service and contain consignment items.
- A consignment is made up of one or more customs items for reporting to Customs and can have one or more customs UCRs.

Consignment Item
An separately identifiable quantity of products grouped together by customs tariff code or packaging for transport purposes. A consignment item is the lowest level of information within a consignment. In the case of cross-border consignments each consignment item must have only one associated customs tariff code in order to satisfy customs requirements.

- A consignment item can contain one or more trade items.
- A consignment item may be contained in transport equipment used for the implementation of the transport service.
- A consignment item can only have one associated customs tariff code.
BSP Semantics

Import/Export Customs Declaration
Documents by which consignments of goods are declared for either export or import customs clearance, conforming to the layout key set out at Appendix I to Annex C.1 concerning outright exportation to the WCO Revised Kyoto Convention. A *customs tariff code* must be provided for each *consignment item* within a *consignment*. The customs tariff code, also known as the *commodity code*, specifies the goods classification under the WCO Harmonised Commodity Description and Coding System.

- An *export or import declaration* can contain one or more *customs items*.
- An *export or import declaration* can have only one customs UCR.

Customs Item
A *customs item* is a *consignment item*, a *trade item* or an aggregation of *consignment items* or *trade items* with distinct *customs tariff code* for reporting to Customs.

- A *customs item* can only have one associated *customs tariff code*.
- A *customs item* can refer to one or more *trade items*.
- Each reported *consignment* may contain one or more separately reported *customs items*. 
BSP Semantics

Master Bill Level
- Master Transport Contract Details e.g. Carrier, Consignor, Consignee etc.
- 1..n
- Master Consignment Items e.g. Shipping Description, Gross Weight etc.

House Bill Level
- House Transport Contract Details e.g. Forwarder, Consignor, Consignee etc.
- 1..n
- House Consignment Items e.g. Shipping Description, Gross Weight etc.

Invoice Level
- Trade Transaction Details e.g. Seller/Buyer

Trade Item Details e.g. HS code, Gross Weight, Values etc.

Transport

Trade
Shipping Instruction: Master Bill of Lading - House Bill of Lading

A Shipping Instruction is sent by the Transport Service Buyer to the Transport Service Provider to specify the instructions and necessary details to form the basis of a single Transport Contract between them. Depending upon the mode of transport a contract is evidenced by a transport contract document which is variously called:

- **Sea Waybill** or **Negotiable Bill of Lading** for maritime,
- **Consignment Note** or **Negotiable Bill of Lading** for inland water
- Master or House **Air Waybill** for airfreight,
- **Road Consignment Note** for road
- **Rail Consignment Note** for rail

This is usually the **Master Bill of Lading**, which may have several related House Bills of Lading, the Carrier is not always aware of the House Bill of Lading details unless they are required for regulatory purposes such as advanced manifest.
CBM-RDM Reference Data Model

Customs Data Models
EUCDM
DG TAXUD – EUCDM (Annex B)

• The Union Customs Code (UCC) entered into force on 1 May 2016 and is a key element of the ongoing actions to modernise EU customs.

• The EU Customs Data Model (EUCDM) implements UCC, aiming at a paperless and fully automated customs union.

• EUCDM provides a technical instrument and source of information for the different IT systems that are used for data processing by customs in the EU, i.e. NCTS (new computerized transit system), AES (automated export system), ICS (Import Control System) and Member States (MS) national systems.

• The backbone of the EUCDM is the data provided by traders to customs authorities by means of the different declarations and notifications, and data and format requirements and codes are defined in Annex B of the UCC-DA and of the UCC-IA respectively.

• The EUCDM has a global importance and achieves this by mapping Annex B to WCO to be fully compatible and to link data elements in the WCO Data Model so to reliably and unambiguously relate Customs needs and Economic Operators data.
EUCDM on the web: BPM using the EU Customs BPM Method

REF: https://aris9.itsmtaxud.eu/businesspublisher
EUCDM on the web: Processes

**Enabling Business Domains**
- Single Window
- AEO Mutual Recognition
- REX
- Operations Management
- Customs Decision Management
- Authorisation for AEO Management
- BTI Decision Management
- BOI Decision Management

**Core Business Domains**
- Entry of Goods
- Release for Free Circulation
- Export
- Temporary Storage
- Transit

**Placing Goods in Customs Procedure**
- Exit Summary Declaration
- Re-Export

**Special Procedures**
- Customs Warehousing
- Free Zones
- Inward Processing
- Outward Processing
- End Use
- Temporary Admission

**Global Business Data**

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<tr>
<th>EORI Record</th>
<th>Enterprise Information</th>
<th>Customs Debt Data</th>
<th>Control Results</th>
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<td>Declaration and Notifications Data</td>
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**EUCDM on the web: Process Definitions**

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<tr>
<th>Core Business Processes</th>
<th>Description</th>
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<tr>
<td><strong>Entry of Goods</strong></td>
<td>Process related to the customs requirements to be fulfilled <strong>before the arrival</strong> of goods on the EU territory (including safety &amp; security process)</td>
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<td><strong>Release for Free Circulation</strong></td>
<td>Process related to the <strong>placing of goods</strong> under the customs procedure release for free circulation. This customs procedure provides that imported goods enter into free circulation in the Union territory upon the <strong>payment of any import duties</strong> and taxes chargeable (or provision of guarantee) and the accomplishment of all the necessary customs formalities.</td>
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<td><strong>Export</strong></td>
<td>Process for the Union <strong>goods destined to leave</strong> the customs territory of the Union and placed under the export procedure. This process includes <strong>certification</strong> of the exit of goods.</td>
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<td><strong>Temporary Storage</strong></td>
<td>Process related to the storage of goods in a <strong>temporary storage facility</strong> before they are released for a subsequent customs procedure.</td>
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<tr>
<td><strong>Transit</strong></td>
<td>Process related to the procedures of the movement of goods between two points of the Union territory via <strong>another customs territory</strong>, or between <strong>two or more different customs territories</strong>. It allows the movement of goods under transit from their point of entry into the Union to their point of clearance where both the customs and national fiscal obligations are handled.</td>
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<td><strong>Exit Summary Declaration</strong></td>
<td>Process related to the exit of the goods from the EU territory for cases where an <strong>export customs declaration is not required</strong> and are covered by an exit summary declaration.</td>
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<td><strong>Re-Export</strong></td>
<td>Process related to the exit of the goods from the EU territory for cases where an export customs declaration is not required, and the <strong>goods have never obtained Union status</strong>.</td>
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EUCDM on the web: Process and Data Models

REF: https://aris9.itsmtaxud.eu/businesspublisher
# EUCDM (v6.0) – UCC Annex B

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## EUCDM on the web: Declarations and Notifications

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<td>A1</td>
<td>Exit summary declaration</td>
<td>Document Data Structure Definition</td>
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<td>A2</td>
<td>Exit summary declaration - Express consignments</td>
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## EUCDM on the web: related data per document type

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### EUCDM on the web: related data per document type

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### EUCDM on the web: related data per document type

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<td>Type of packages, Transit declaration/Proof of customs status type, Transhipments, Total packages, Total number of items, Simplified declaration/ Previous documents, Signature/ authentication, Shipping marks, Seal number, Representative status code, Representative identification No., Representative, Reference number/UCR, Place of loading, Other incidents during carriage, Office of destination (and country), Number of packages, Net mass (kg), Nationality of means of transport at departure, Nationality of active means of transport crossing the border, Mode of transport at the border, LRN, Location of goods, Loading lists, Intended offices of transit (and country), Inland mode of transport, Identity of means of transport at departure, Identity of active means of transport crossing the border, Holder of the transit procedure identification No., Holder of the transit procedure, Guarantee type, Guarantee reference, Guarantee not valid in, Gross mass (kg), Goods item number, Forms, Exporter identification No., Exporter, Documents produced, certificates and authorisations, additional references, Description of goods, Declaration place, Declaration date, Customs office of presentation, CUS code, Country of destination code, Container identification number, Container, Consignee identification No., Consignee, Commodity code – Combined Nomenclature code, Additional supply chain actor(s) identification No., Additional information</td>
</tr>
<tr>
<td>E1</td>
<td>Export declaration and re-export declaration</td>
<td>Type of packages, Transit declaration/Proof of customs status type, Total packages, Total number of items, Simplified declaration/ Previous documents, Signature/ authentication, Shipping marks, Requested validity of the proof, Representative status code, Representative identification No., Person requesting a proof of the customs status of Union goods identification No., Number of packages, Net mass (kg), LRN, Loading lists, Gross mass (kg), Goods item number, Forms, Exporter identification No., Exporter, Documents produced, certificates and authorisations, additional references, Description of goods, Declaration place, Declaration date, CUS code, Container identification number, Container, Commodity code – Combined Nomenclature code, Additional information</td>
</tr>
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</table>
## EUCDM on the web: related data per document type

<table>
<thead>
<tr>
<th>C</th>
<th>Procedures</th>
<th>Related Data</th>
</tr>
</thead>
</table>
## EUCDM 6.0
as of 2021-04-13 (r1)

### Information
- About
- Download

### UCC Annex B
- Source text
- Guidance
  - Data element view
    - Overview
    - Usage
  - Data set view
  - Structure
  - Mapping

### UCC Annex A
- Source text
- Guidance
- Data element view
- Data set view

### UCC Annex 12-01
- Source text
- Data element view

### UCC Annex 21 ST+82
- Source text
- Data element view
- Data set view

### EEZ Receipt Declaration
- Source text
- Data element view
- Data set view

### Archive
- as of EUCDM 3.0

### Future EUCDM
- Publication plan

### Data element Overview

<table>
<thead>
<tr>
<th>Group 11</th>
<th>Message information (including procedure codes)</th>
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EUCDM on the web: Data Elements

GR11 Message information (including procedure codes)
GR12 References of messages, documents, certificates, authorisations
GR13 Parties
GR14 Valuation Information-Taxes
GR15 Dates-Times-Periods
GR16 Places-Countries-Regions
GR17 Customs offices
GR18 Goods Identification
GR19 Transport information (modes, means and equipment)
GR99 Other data elements (statistical data, guarantees, tariff related data)
EUCDM on the web: Data Types

REF: https://aris9.itsmtaxud.eu/businesspublisher
CBM-RDM Reference Data Model

EUCDM Mapping
EUCDM mapping process

1. Base (WCO)
   - Declaration BIP
   - Class Library

2. Customization (TAXUD)
   - Declaration Guide
   - Class Library Guide

3. UCC Procedures (57)
   - Exit summary declarations
   - Export declarations
   - Export simplified declarations
   - Transit
   - Customs status
   - eManifest
   - Entry summary declarations
   - Entry 'pentalogy'
   - Import declarations
   - Import simplified declarations

4. WCO Data Model
   - Shipment View
   - Consignment View

5. EUCDM base (red model)

6. EUCDM Consignment View Subset

7. EUCDM Shipment View Subset
EUCDM Shipment and Consignment Views

- DECLARATION (D)
  - Consignment (MC)
    - Consignment item (MI)
    - House consignment (HC)
    - House consignment item (HI)
  - Goods Shipment (GS)
    - Goods shipment item (SI)

Consignment View

Shipments View
Using the UN/CEFACT Core Component Library (CCL)

Business Information Entities (BIEs)
Reuses of Object Class Library in different business Contexts
(D21A ~ 1330 BIEs)

Semantic Foundation - Core Component (CCs)
Object Class Library
(D21A ~ 600 CCs)
CCL Shipment (SC) and Consignment (MMT) coverage

Copyright UNECE

https://www.unece.org/cefact/codesfortrade/unccl/ccl_index.html
CBM-RDM semantic models using UN/CEFACT CCL

UN/CEFACT Core Component Library (CCL)

- Supply Chain (BUY PAY Context) Reference Data Model
  - Based on
  - BUY PAY Master (Master message structure)
  - Invoice
  - Order
  - Quotation

- MULTIMODAL TRANSPORT (SHIP Context) Reference Data Model
  - Based on
  - Bill of Lading
  - Booking
  - BayPlan
  - SHIP Master (Master message structure)

BUY SHIP PAY Reference Data Model
- Based on
- BUY PAY Master (Master message structure)

Based on and subset of

UN/CEFACT Core Component Library (CCL)

Copyright UNECE
Mapping BSP to Customs
CBM-RDM Reference Data Model

CBM-RDM
Output Resources &
Semantic Data Models
UN/CEFACT Available Resources

Streamlined presentation of UN/CEFACT standards

General Standards

UN/CEFACT

Supply Chain Management

Cross Industry Invoice
Cross Industry Delivery
Cross Industry Catalogue
Cross Industry Quotation
Cross Industry Remittance Advice
Cross Industry Scheduling
Cross Industry Invoicing Processes
Cross Industry Payment\n
Material Safety Data Sheet Details (SDS)

Multi-Modal Transport Reference Data Model (MMT-RDM)

International Forwarding and Transfer
Booking
Shipping Instruction
Air Waybill
Status Report / Request
Road Consignments Note (RCM)
Reset Landed

Vendor Data Exchange Standard (VDiES)
MD & TIL Compendium
Justified Gross Mass (VGMANS)

UN/CEFACT

https://unece.org/trade/uncefact/mainstandards
UN/CEFACT Available Resources

https://unece.org/trade/uncefact/mainstandards
Project Deliverables and Status

3. Project deliverables and 4. Exit Criteria

Required (check all that apply)

<table>
<thead>
<tr>
<th>Project deliverables</th>
<th>Exit Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Policy Recommendation</td>
<td>Public Review logs demonstrating all comments have been satisfactorily resolved; Final document ready for publication.</td>
</tr>
<tr>
<td>☐ Technical Specification</td>
<td>Final document ready for publication.</td>
</tr>
<tr>
<td>☐ White Paper</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Green Paper</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Requirement Specification Mapping</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Core Component Business Document Assembly</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Guidelines</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Executive Guide</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Brochure</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☑ Entries/alignment to the Core Component Library</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☑ XML Schema</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ UN/EDIFACT message</td>
<td>Final deliverable ready for publication.</td>
</tr>
<tr>
<td>☐ Internal UN/CEFACT Document</td>
<td>Final deliverable ready for Bureau approval.</td>
</tr>
<tr>
<td>☑ Other (specify): a new RDM structure in the library</td>
<td>Final deliverable ready for publication.</td>
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11. Milestones (repeat for each deliverable, if different)

The following are draft milestones of the project.

<table>
<thead>
<tr>
<th>ODP Stage</th>
<th>Expected Completion Date</th>
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<tbody>
<tr>
<td>Yes Project Inception</td>
<td>1 month</td>
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<tr>
<td>Yes / No Requirements gathering</td>
<td>☑ 1 month</td>
</tr>
<tr>
<td>Yes Draft development</td>
<td>☐ 3 months (Very quick)</td>
</tr>
<tr>
<td>☐ 6 months (Quick)</td>
<td>☑ 12 months (Normal)</td>
</tr>
<tr>
<td>☐ 18 months (Normal)</td>
<td>☐ 24 months (Long)</td>
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<tr>
<td>Yes / No Public Draft Review</td>
<td>☑ 2 months</td>
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<tr>
<td>Yes Project Exit</td>
<td>1 month</td>
</tr>
</tbody>
</table>

BRS-Requirements
CC - Business Document Assembly
Alignment to CCL
CBM-RDM
Round Table

Discussion
References

- CBM-RDM Project Proposal
- UN/CEFACT BSP Reference Data Model
- UN/CEFACT Multi-Modal Transport (MMT) Reference Data Model
- UN/CEFACT Supply Chain Reference Data Model (SCRDM)
- International Freight Forwarding BRS
- UN/CEFACT Modelling Methodology (UMM) v2.0
- UN/CEFACT Core Component Technical Specification v2.01 (CCS ISO15000-5)
- UN/CEFACT Core Component Library D20A (Apr 2020)
- United Nations Trade Data Elements Directory 2005 (UNTDED/ISO 7372)
- EUCDM web access to the model https://svn.taxud.gefeg.com/svn/Documentation/EUCDM/EN/index.htm