

# MMT RDM and Role in Transport Data Exchange

Sue Probert

Chair, UN/CEFACT  
suesiprobert@live.com

David Roff

T&L Domain, UN/CEFACT  
david@cif-consulting.co.uk



**UN / CEFACT**



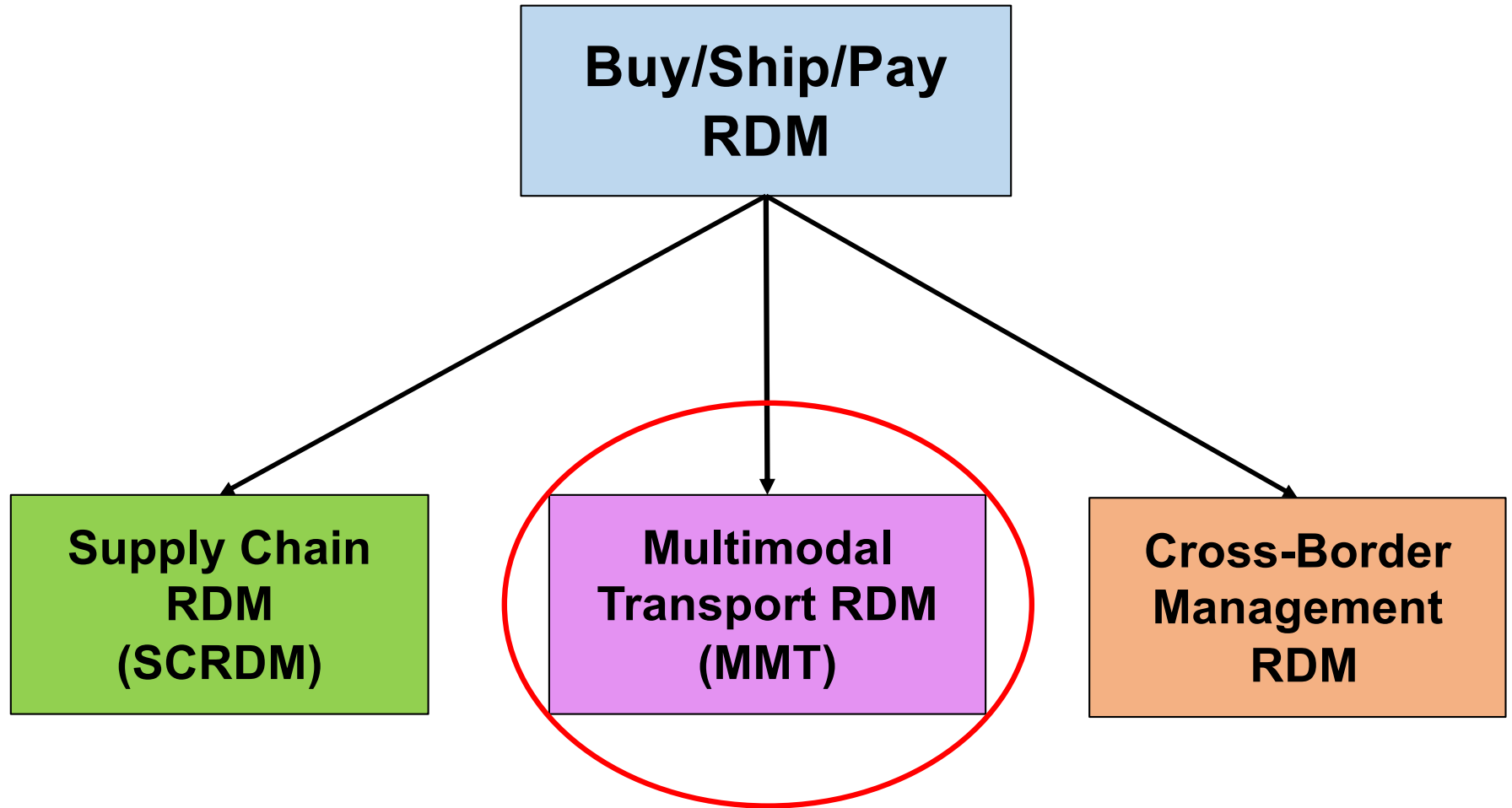


# Multi Modal Transport Reference Data Model

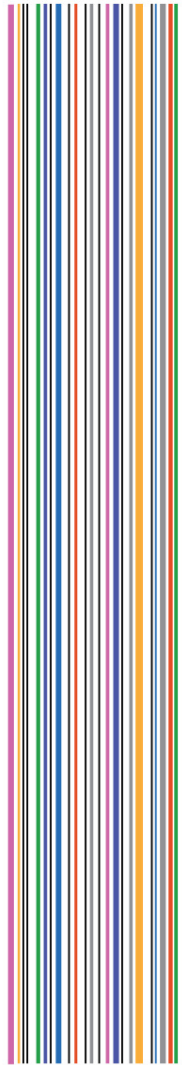
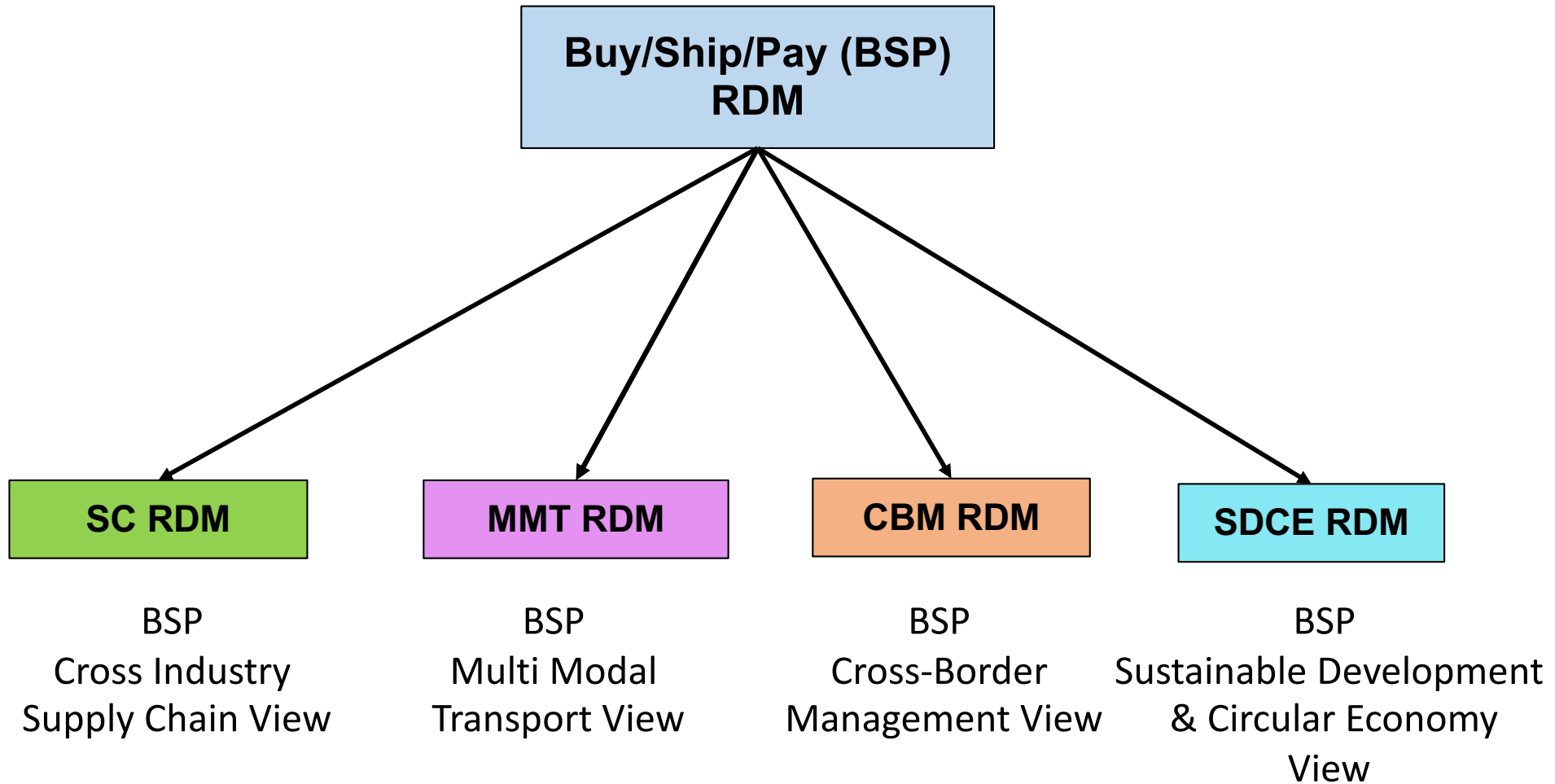
- The **MMT** reference data model is based on the UN/CEFACT Core Component Library (CCL) which brings together the data exchange requirements of international multimodal transport processes including related trade, insurance, customs and other regulatory documentary requirements based on the integration of trade facilitation and e-Business best practices.
- The UN/CEFACT MMT Reference Data Model is a subset of the **Buy/Ship/Pay** Reference Data Model and a sister to the Supply Chain Reference Data Model (**SCRDM**) and to the future Cross Border Management Reference Data Model (**CBMRDM**)



# UN/CEFACT International Supply Chain Reference Data Model Family



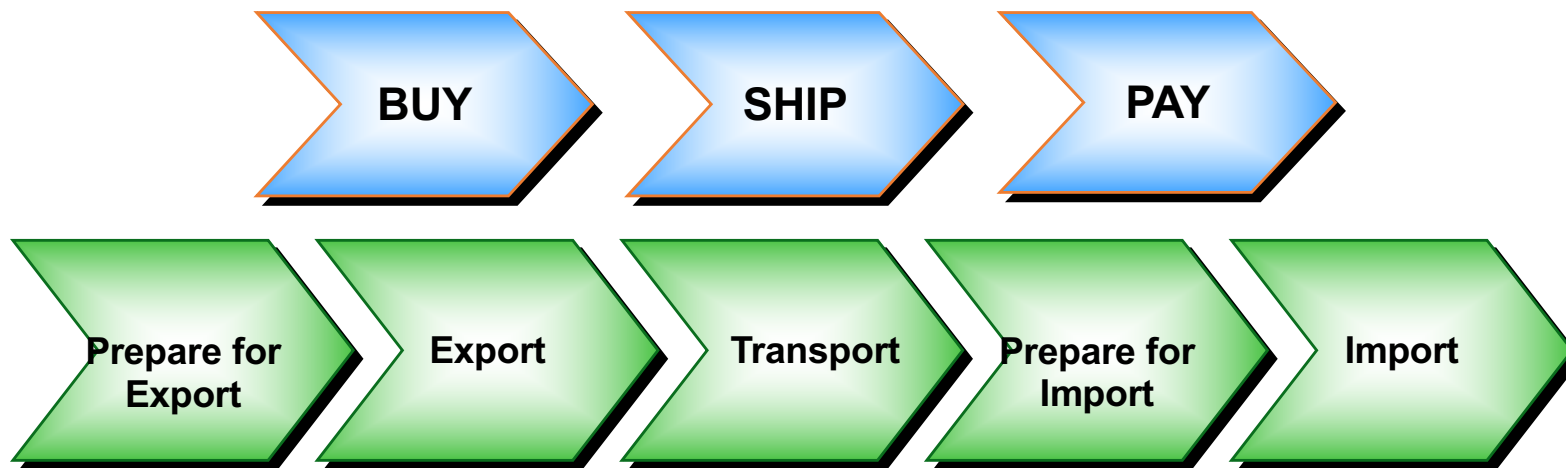
# UN/CEFACT International Supply Chain Reference Data Model Family - Future



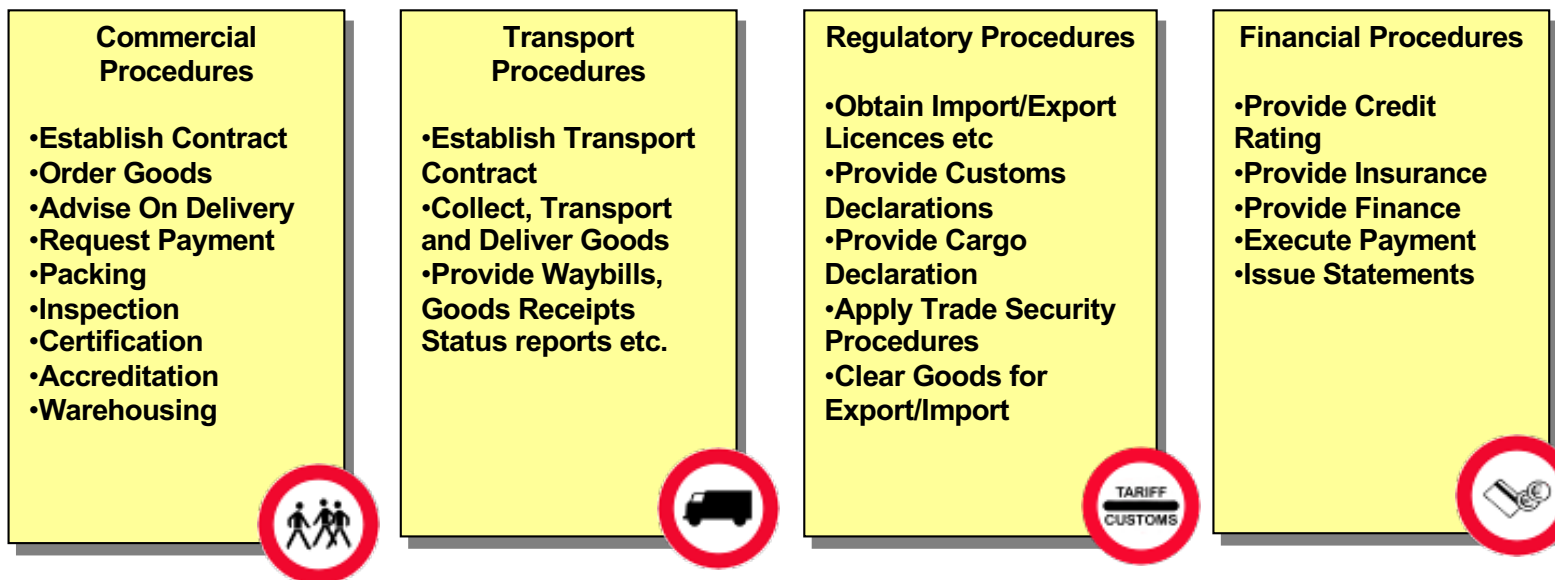
UN / CEFACT

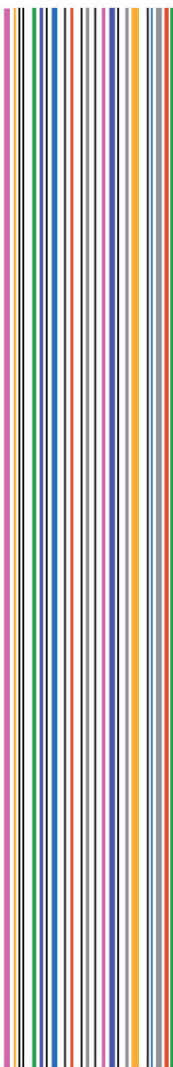


# UN/CEFACT International Supply Chain Process Model

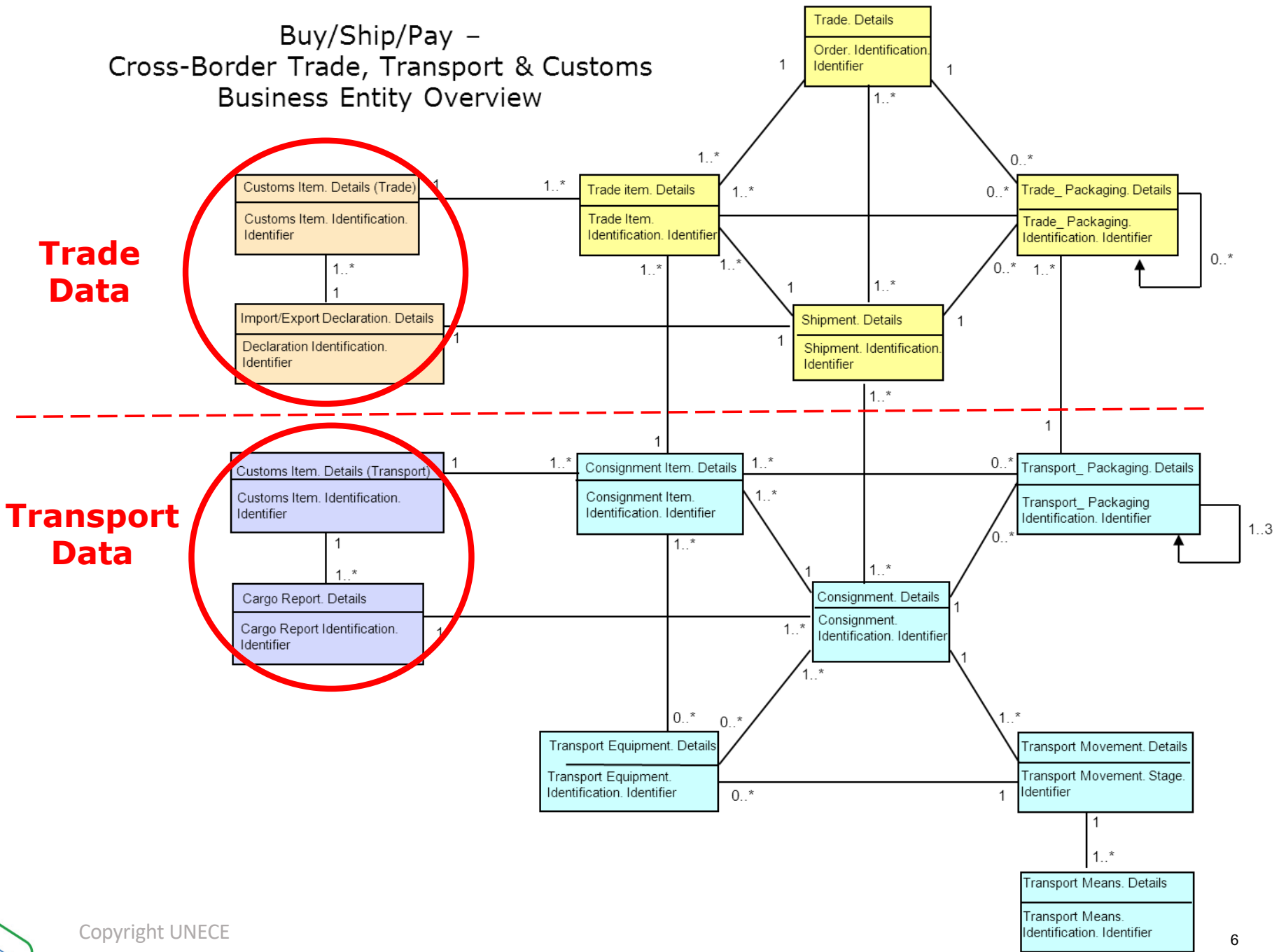


## INVOLVES





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





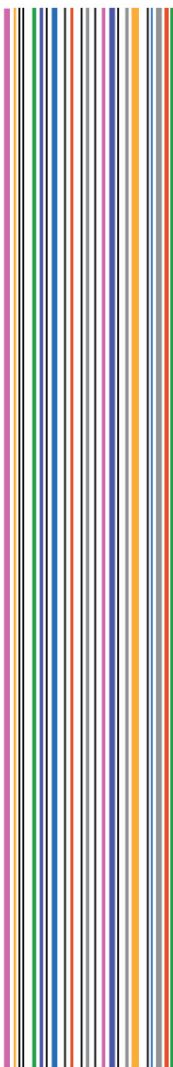
# Global Trade – Semantic Anchors

## Shipment (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 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

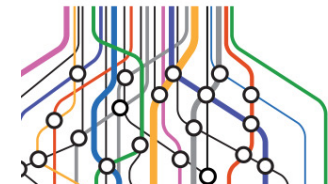


UN / CEFAC

# UN/CEFACT evolution/revolution – Reference Data Models

## Benefits of UN/CEFACT Semantic Models

- Cross-industry and multimodal transport focus to support global supply chains in general
- Support for information sharing, such as enabled by data pipelines, with the timely capture of quality data from original data sources ensuring supply chain visibility
- References individual modal transport conventions
- Identification of regulatory data e.g. Dangerous Goods, Customs reporting requirements
- Standardized data exchange structures, based on common data exchange structure and independent of exchange syntax







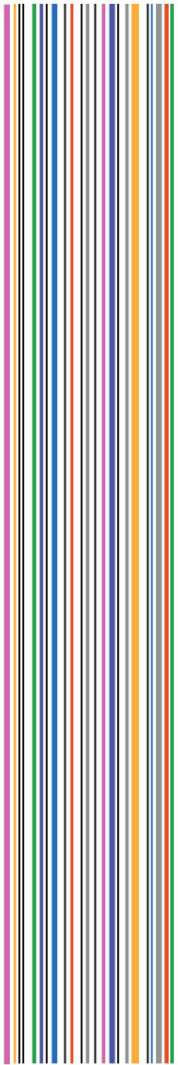
# Alignment between Modes of Transport



Business Name	MMT ITIGG IFTM P_F	eCMR	Maritime BoL	CIM-SMGS Consignment Note	CIM-SMGS Consignment Note under URL	Wagon List	Inland Waterway B	FIATA BoL	RDM Path
MMT CCBD A Master Message Structure	X	X	X	X	X	X	X	X	BSP Master. Details
Exchanged Document	X	X	X	X	X	X	X	X	BSP Master. Details/BSP Master. Exchanged_Document
ID	X	X	X	X	X	X	X	X	BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Identification. Identifier
Type Code	X	X	X				X		BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Type. Code
Issue Date Time	X	X	X	X	X		X	X	BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Issue. Date Time
Remark	X	X							BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Remarks. Text
Original Issued Quantity	X						X	X	BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Original Issued. Quantity
Copy Issued Quantity	X						X	X	BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Copy Issued. Quantity
Purpose Code	X			X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Purpose. Code
Sender Assigned ID				X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Sender Assigned_Identification. Identifier
Recipient Assigned ID				X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Recipient Assigned_Identification. Identifier
Version ID				X					BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Version_Identification. Identifier
Creation Date Time						X			BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Creation. Date Time
Note	X	X		X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Included. Note
Subject Text	X	X							BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Included. Note/Note. Subject. Text
Content Code	X	X							BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Included. Note/Note. Content. Code
Content Text	X	X		X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Included. Note/Note. Content. Text
Subject Code	X	X							BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Included. Note/Note. Subject. Code
Reference Document				X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Reference. Referenced_Document
Type Code				X	X				BSP Master. Details/BSP Master. Exchanged_Document/Exchanged_Document. Reference. Referenced_Document/Referenced_Document. Type. Code

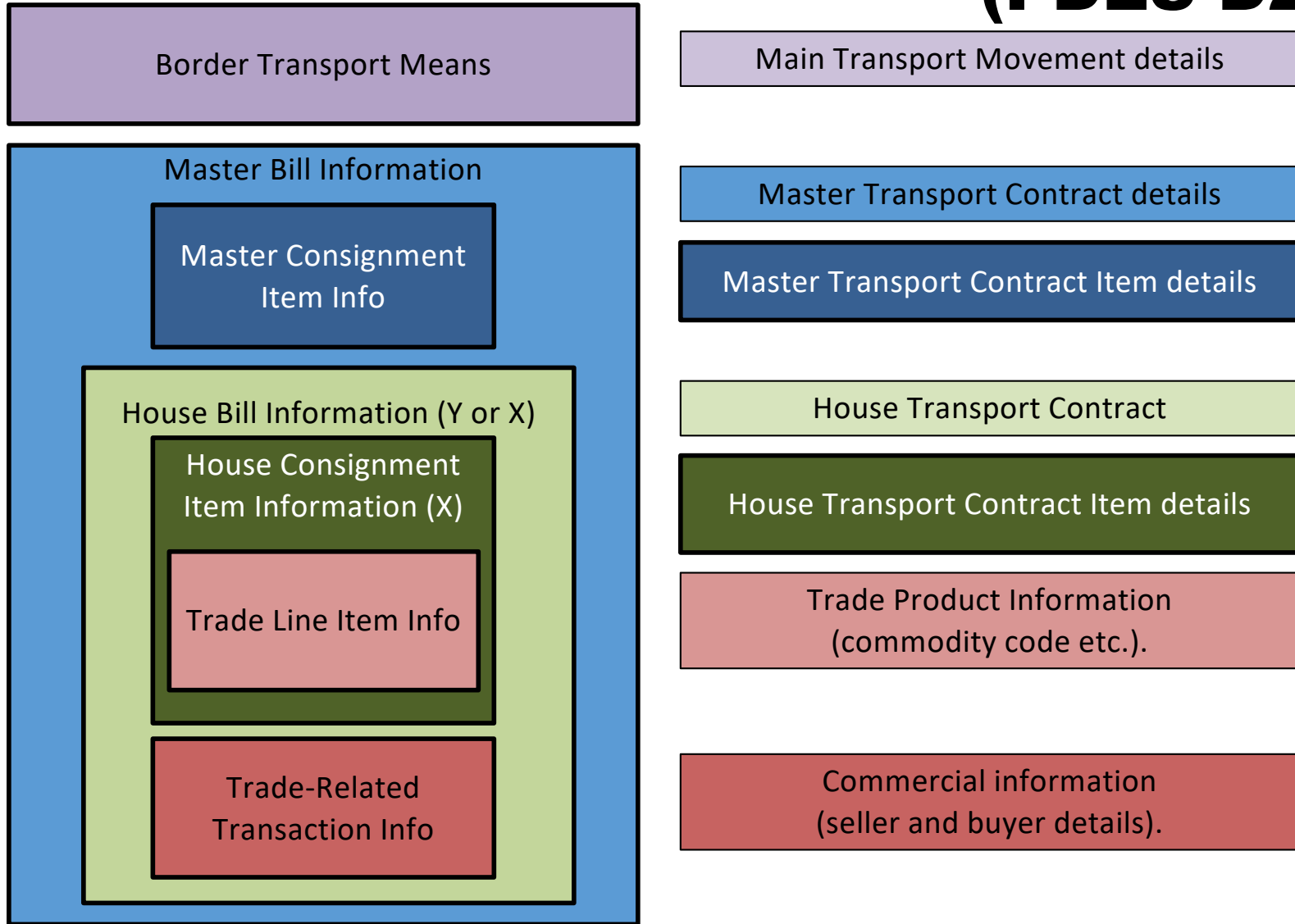
All modes aligned to the UN/CEFACT Multi Modal Transport (MMT) Reference Data Model





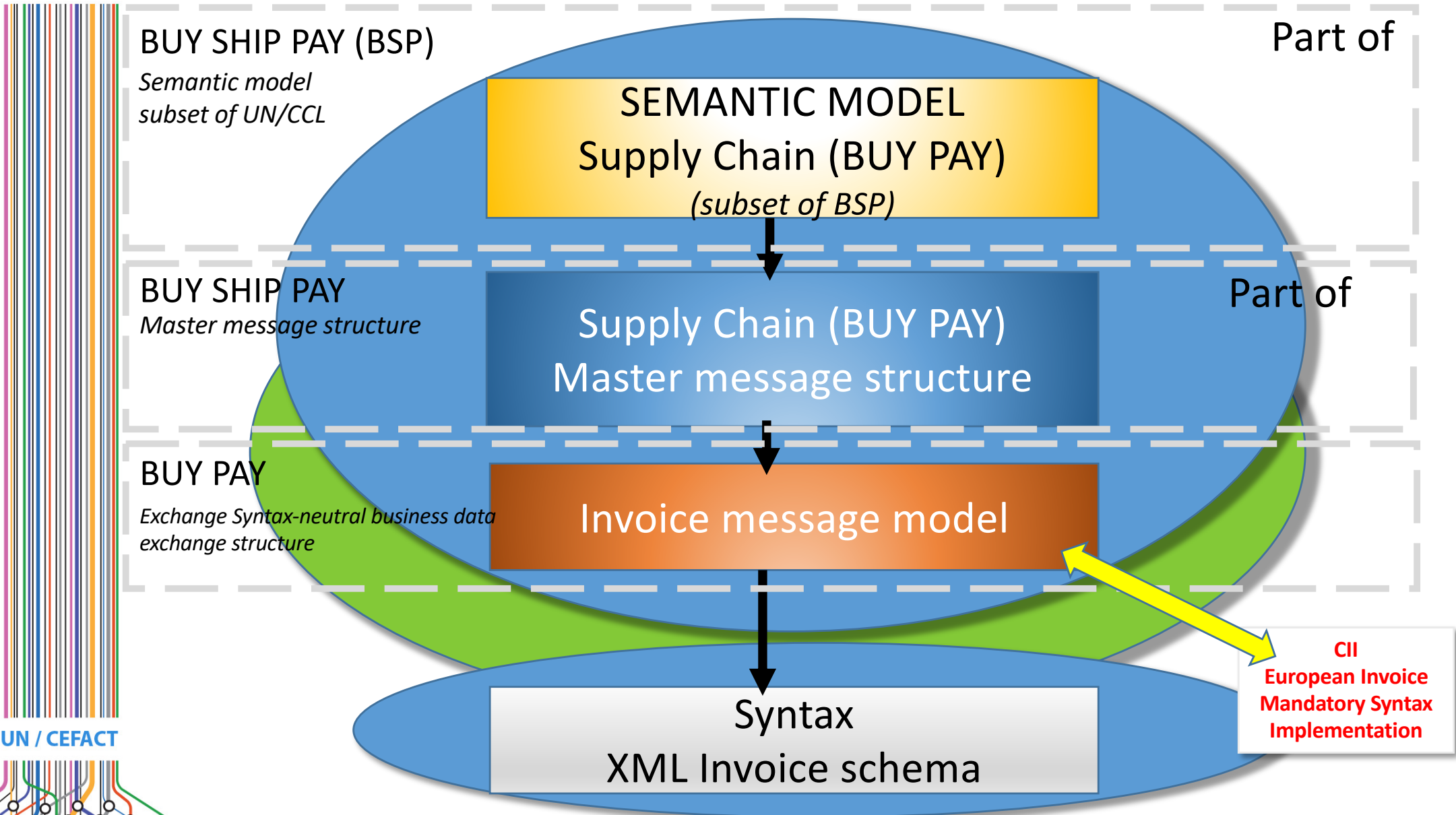
UN / CEFAC

# MMT – Pipeline Data Exchange Structure (PDES D21A)



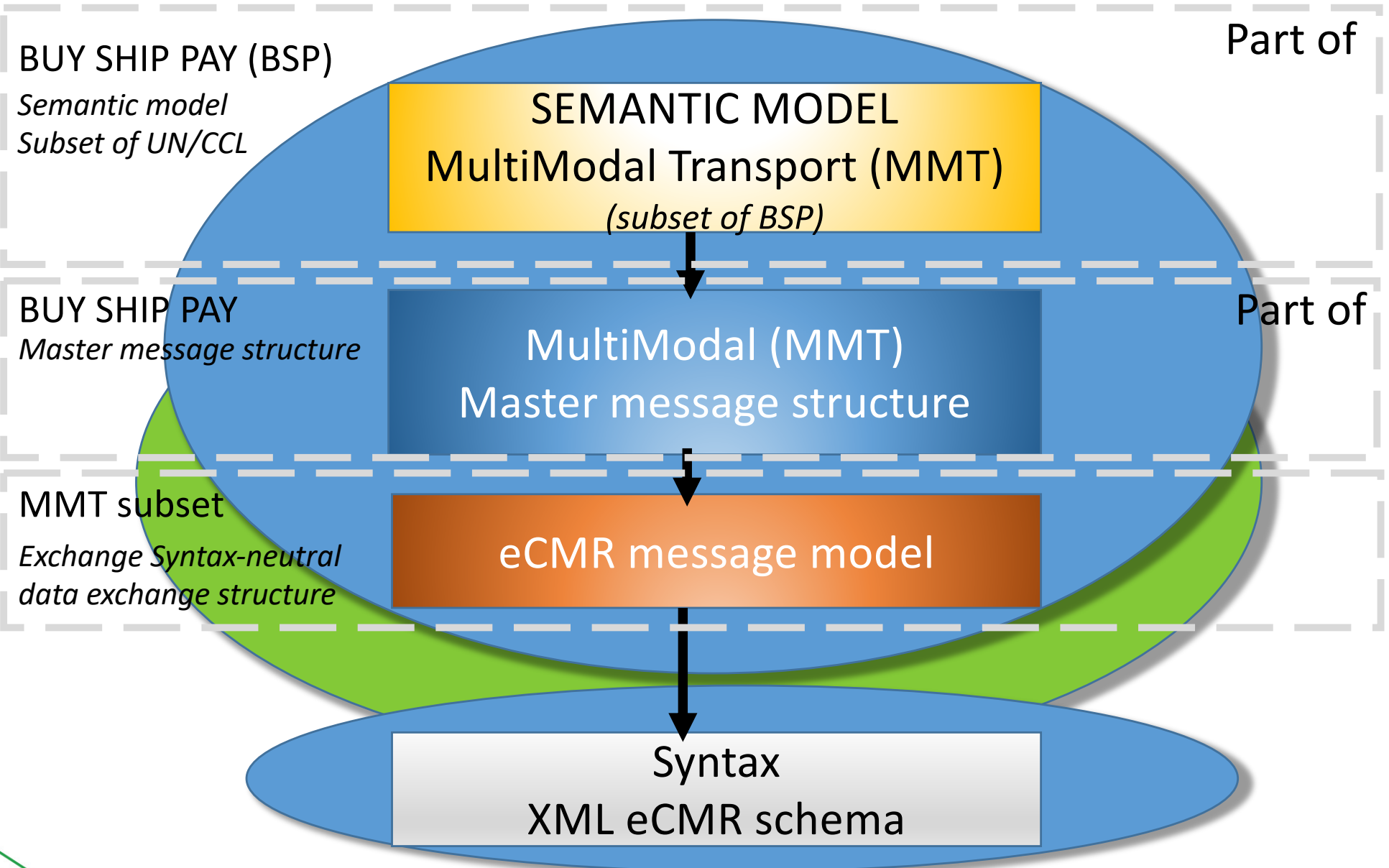


# Trade Example: UN/CEFACT Cross Industry Invoice (CII)





# Transport Example: UN/CEFACT electronic Road Consignment Note (eCMR)



UN / CEFACT