

# **UN/CEFACT Online Forum**

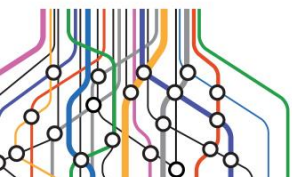
## **April 2021**

**Core Component (UN/CCL) Library  
Maintenance, Validation and  
UN/CEFACT Reference Data  
Models**

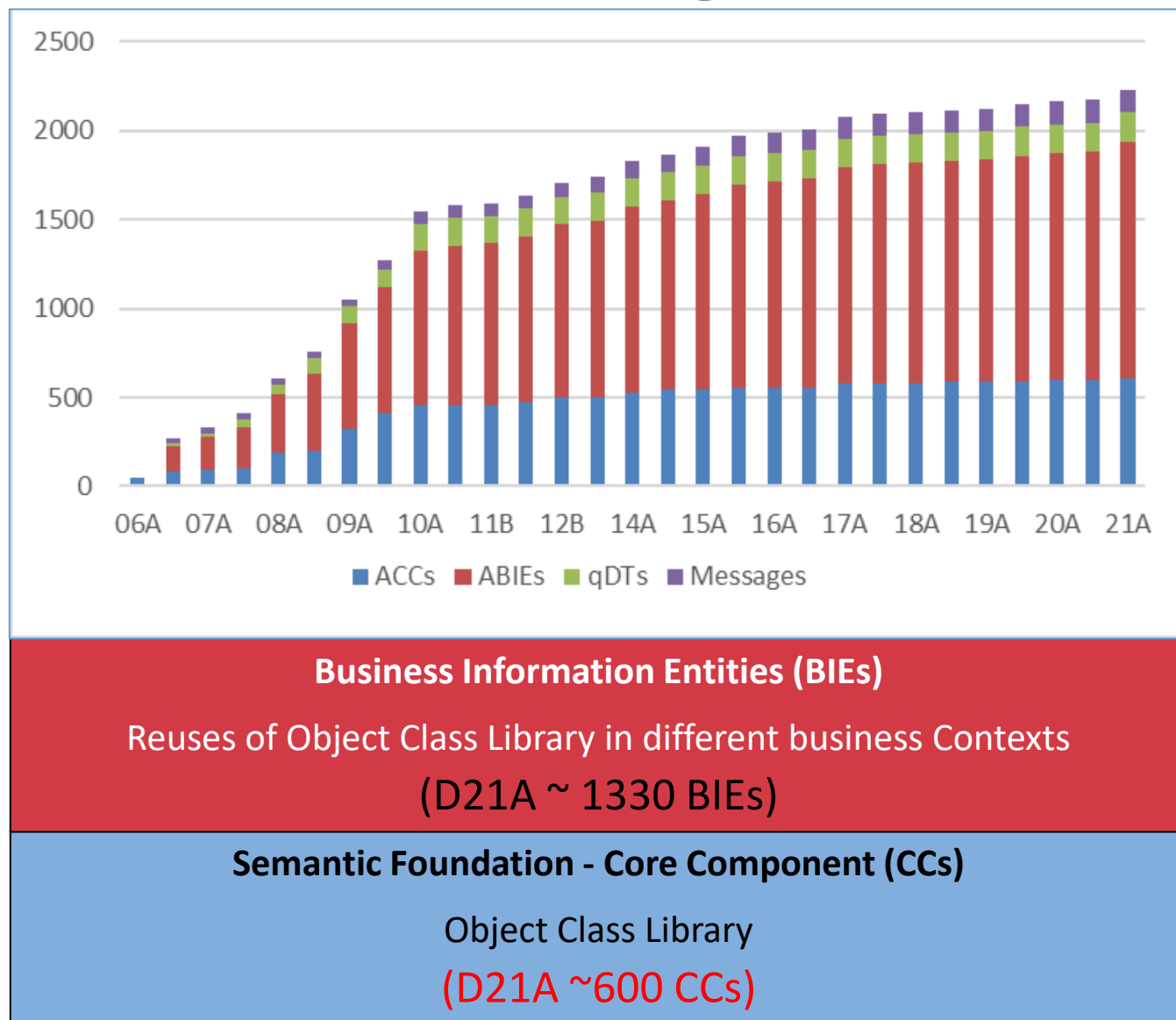


# UN/CEFACT Key Outputs

- Business Standards
  - Process Models
  - Reference Data Models
  - Semantic Libraries (UNTDED, Core Component Library (CCL) and UN/EDIFACT Directories)
- Trade Facilitation Recommendations
- Technical Specifications



# CCL Progress





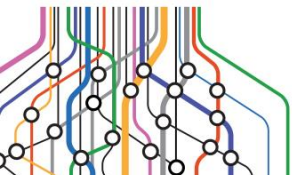
# UN/CEFACT Core Component Library Status

## Latest Version D21A

- 1330 Aggregated Business Entities (ABIEs) in total
- Only **160** ABIEs needed to cover the business processes of international supply chains (Buy/Ship/Pay)

## CCL includes components which support UN/CEFACT Domain Business Standards in the areas of:

- Cross Industry Supply Chain
- Multimodal Transport & Logistics
- Agricultural eCert, Animal Passports, eLabs & FLUX Fisheries
- Sustainability and circular economy component structures
- Cross-border management

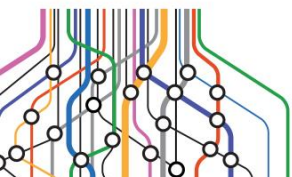




# CCL Production

The following steps apply to all requests for changes to the Core Component Library:

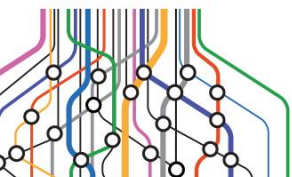
- Change request submitted from a project team
- Technical assessment by an editor
- Semantic assessment by a team including submitter(s)
- Harmonization
- Update of CCL
- Validation of updated library and schema
  - Quality Assurance
  - Formal Validation
- Publication





# CCL Production

- Technical and semantic assessments are based on published checklists
- Domain experts are needed for semantic assessment of the business need and solution
- Harmonization includes:
  - comparison of the change to the existing library to determine if it is indeed 'new' and not semantically equivalent to something that already exists
  - any changes to the submission are agreed upon by the submitter and by the appropriate domain team(s)

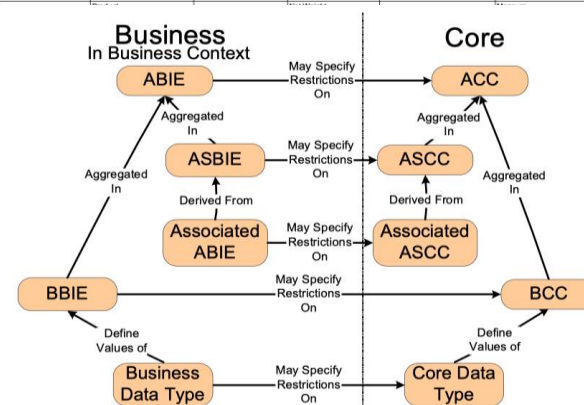




# CCL Production

- Quality Assurance (including of any syntax solutions)
  - By library team
  - By the submitters
- Validation
  - By experts in the libraries, in the domains involved, in any syntax solutions produced, and in the publication of the particular libraries.
- Publication
  - Libraries are submitted to the UN/CEFACT Secretariat for publication.

ADDRESSES PWORD	Unique ID Assigned ID	ABIE/BSE/ ASBE/ACC/B CC/ASCC/DT/ CC/SC	Dictionary Entry Name (auto generated)	Definition Mandatory	Working comments and instructions	Publication comments	Object Class Term	Property Term	Representation Term	Associated Object Class	Business Term(s)	Usage Rule(s)	Occurrence Min	Occurrence Max
	UN00000048	BCC	Trade Agreement, Product Availability, Code	A code specifying product availability according to this trade agreement.			Trade Agreement	Product Availability	Code				0	unbounded
	UN00000052	BCC	Trade Agreement, Product Unit Measure, Code	A code specifying a product unit measure, such as kilogram or litre, for this trade agreement.			Trade Agreement	Product Unit Measure	Code				0	unbounded
	UN00000047	BCC	Trade Agreement, Product Orderable, Indicator	The indication of whether or not the product can be ordered according to this trade agreement.			Trade Agreement	Product Orderable	Indicator				0	1
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	UN00000048	BCC	Trade Agreement, Product Made To Order, Indicator	The indication of whether or not the product is made to order according to this trade agreement.			Trade Agreement	Product Made To Order	Indicator				0	1
ADDRESSES PWORD	Unique ID Assigned ID	ABIE/BSE/ ASBE/ACC/B CC/ASCC/DT/ CC/SC	Dictionary Entry Name (auto generated)	Definition Mandatory	Working comments and instructions	Publication comments	Object Class Term	Property Term	Representation Term	Associated Object Class	Business Term(s)	Usage Rule(s)	Occurrence Min	Occurrence Max
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# Basis for Semantic Interoperability

## Agreed and Harmonised

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



# Semantic Anchors

## Shipment

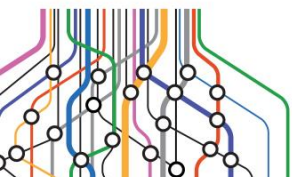
A shipment is an identifiable collection of one or more Trade Items (available to be) transported together from the Seller (Original Consignor/Shipper), to the Buyer (Final/Ultimate Consignee):

- 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

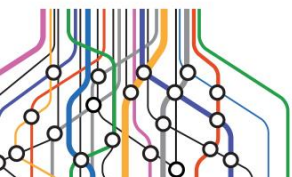


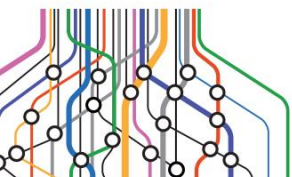


# UN/CEFACT evolution/revolution – Reference Data Models

## Benefits of UN/CEFACT Semantic Models

- The 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
- Reduction of administrative burden by efficient reuse of data shared within the BUY SHIP PAY domain model
- Standardized data exchange structures, based on common Master data exchange structure and independent of exchange syntax
- Common basis for implementing in chosen data exchange syntax(es)





# RDM Data Exchange Structure Relationships

- ▼ **C** Buy Ship Pay Master \*\*
    - > ● **C** Exchanged Document Context
    - > ● **C** Exchanged Document
    - > ● **C** Exchanged Declaration
    - > ● **C** Logistics Transport Movement
    - > ● **C** Supply Chain Consignment
    - > ● **C** Logistics Transport Equipment
    - > ● **C** Transport Service
    - > ● **C** Trade Settlement Payment
    - > ● **C** Supply Chain Trade Transaction
    - > ● **C** Valuation Breakdown Statement
    - > ● **C** Financing Request Document
    - > ● **C** Financing Summary
- } Exchange Header
- } Regulatory Header
- } BUY
- } SHIP
- } PAY

# How CCL growth is managed

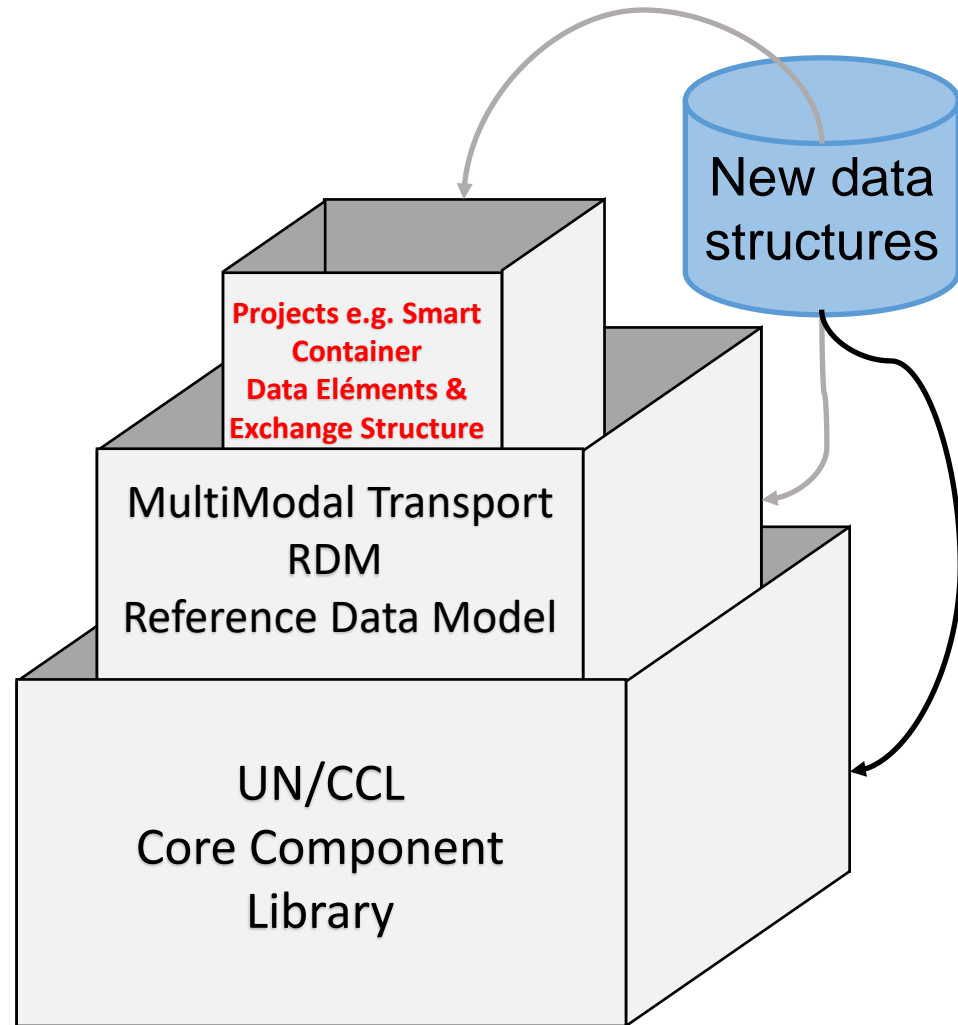


Library Maintenance  
Team responsible for

- Cross-Domain  
**Harmonisation**

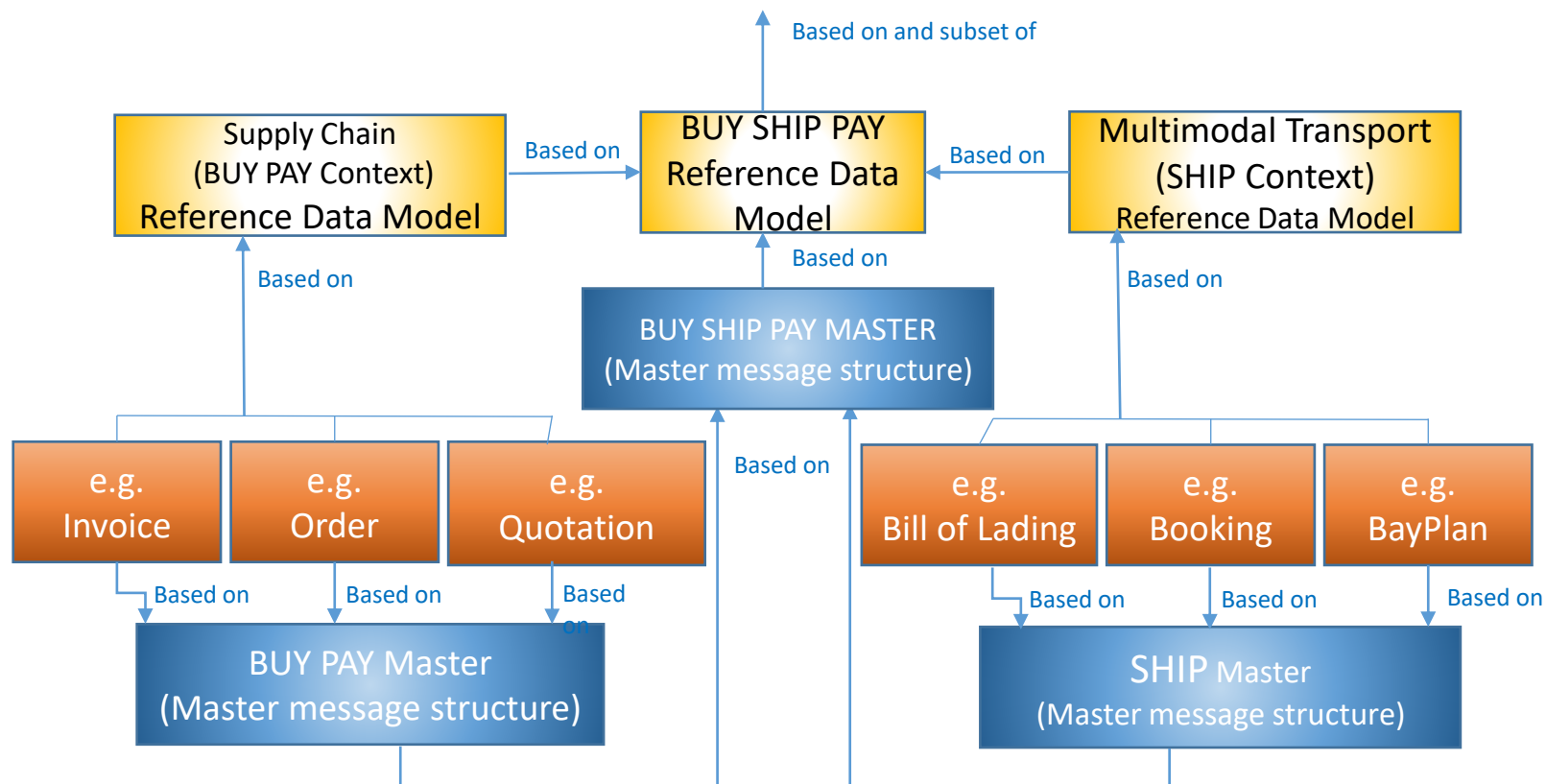
Project Teams  
responsible for

- **Contextualised** RDM  
development, CCL  
submissions and  
**customised** subset  
exchange structures



# Building semantic models using a common library

## UN/CEFACT Core Component Library (CCL)



# CoreComponent2BusinessInformationEntity



## Example Person Core Component

80 Attributes

27 Associations incl.

- > ● A Alternate Language Code
- > ● A Alternate Language Proficiency Code
- > ● A Director Or Officer Indicator
- > ● A Social Insurance Eligibility Indicator
- > ● A Social Insurance Contract ID
- > ● A Medicare Qualified Indicator
- > ● A Social Security Number Release Authorization C
- > ● A Tax Filing Status Code
- > ● A Affiliate Privacy Response Code
- > ● A Third Party Privacy Response Code
- > ● A Disablement Registration Date Time
- > ● A Role Text
- > ● A Attends School Indicator
- > ● A College Grade Average
- > ● A School Disciplinary Action Indicator
- > ● A Highest Grade Completed Text
- > ● A High School Grade Average Text
- > ● A College Grade Average Value
- > ● A Category Code
- > ● A Role Code
- > ● A In Transit Indicator
- > ● C Residence Address
- > ● C Nationality Country
- > ● C Telephone
- > ● C Fax
- > ● C URI
- > ● C Information Address
  - C Alias Person
  - C Filiation Person
- > ● C Specified Event
- > ● C Person Financial Situation

17 reuses as

Business Information Entities

- C [Main/ABIE/AAA Chart Of Accounts Person Details](#)
- C [Main/ABIE/AAA Journal Person Details](#)
- C [Main/ABIE/AAA Report Person Details](#)
- C [Main/ABIE/AAA Wrap Person Details](#)
- C [Main/ABIE/Authoritative Signatory Person Details](#)
- C [Main/ABIE/Contact Person Details](#)
- C [Main/ABIE/Guest Person Details](#)
- C [Main/ABIE/Inspection Person Details](#)
- C [Main/ABIE/Operator Person Details](#)
- C [Main/ABIE/Payment Person Details](#)
- C [Main/ABIE/Project Person Details](#)
- C [Main/ABIE/Representative Person Details](#)
- C [Main/ABIE/Reserving Person Details](#)
- C [Main/ABIE/Responsible Person Details](#)
- C [Main/ABIE/SPS Person Details](#)
- C [Main/ABIE/TMW Person Details](#)
- C [Main/ABIE/Transport Person Details](#)

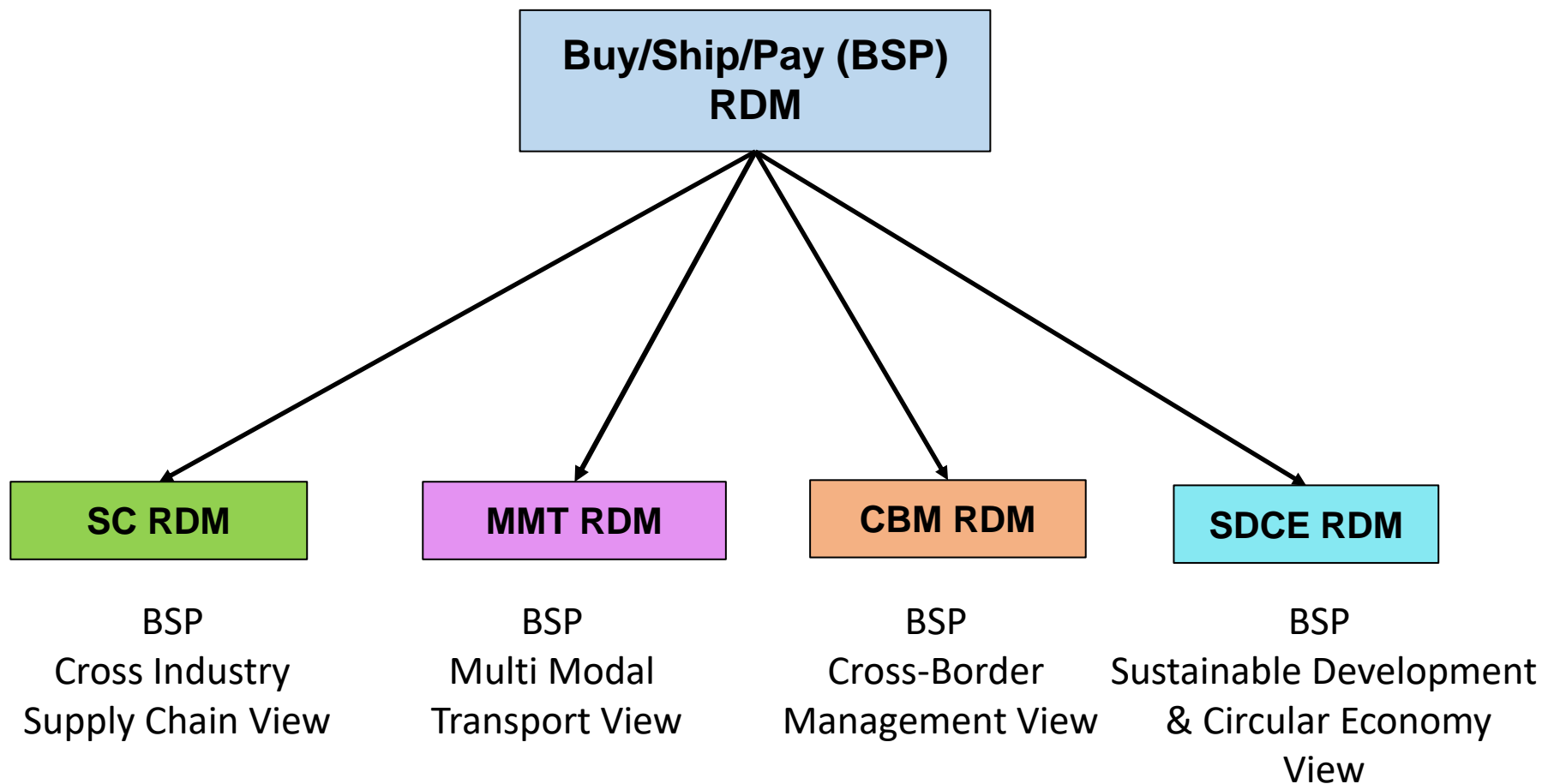
Reuse example:

Transport Person for IMO FAL

- ▼ C Transport Person
  - > C Based on "Person"
  - > ● A ID
  - > ● A Name
  - > ● A Birth Date Time
  - > ● A Language Code
  - > ● A Role Text
  - > ● A Role Code
  - > ● A Category Code
  - > ● A Gender Code
  - > ● A Given Name
  - > ● A Family Name
  - > ● A Birth Country Code
  - > ● A Birthplace Name
  - > ● A In Transit Indicator
  - > ● C Nationality Country
  - > ● C Certified Accreditation
  - > ● C Attained Qualification
  - > ● C Embarkation Location
  - > ● C Disembarkation Location
  - > ● C Travel Identity Document
  - > ● C Travel Visa Document
  - > ● C Crew Travel Effects
  - > ● C Landline Telephone
  - > ● C Mobile Telephone
  - > ● C Email Address

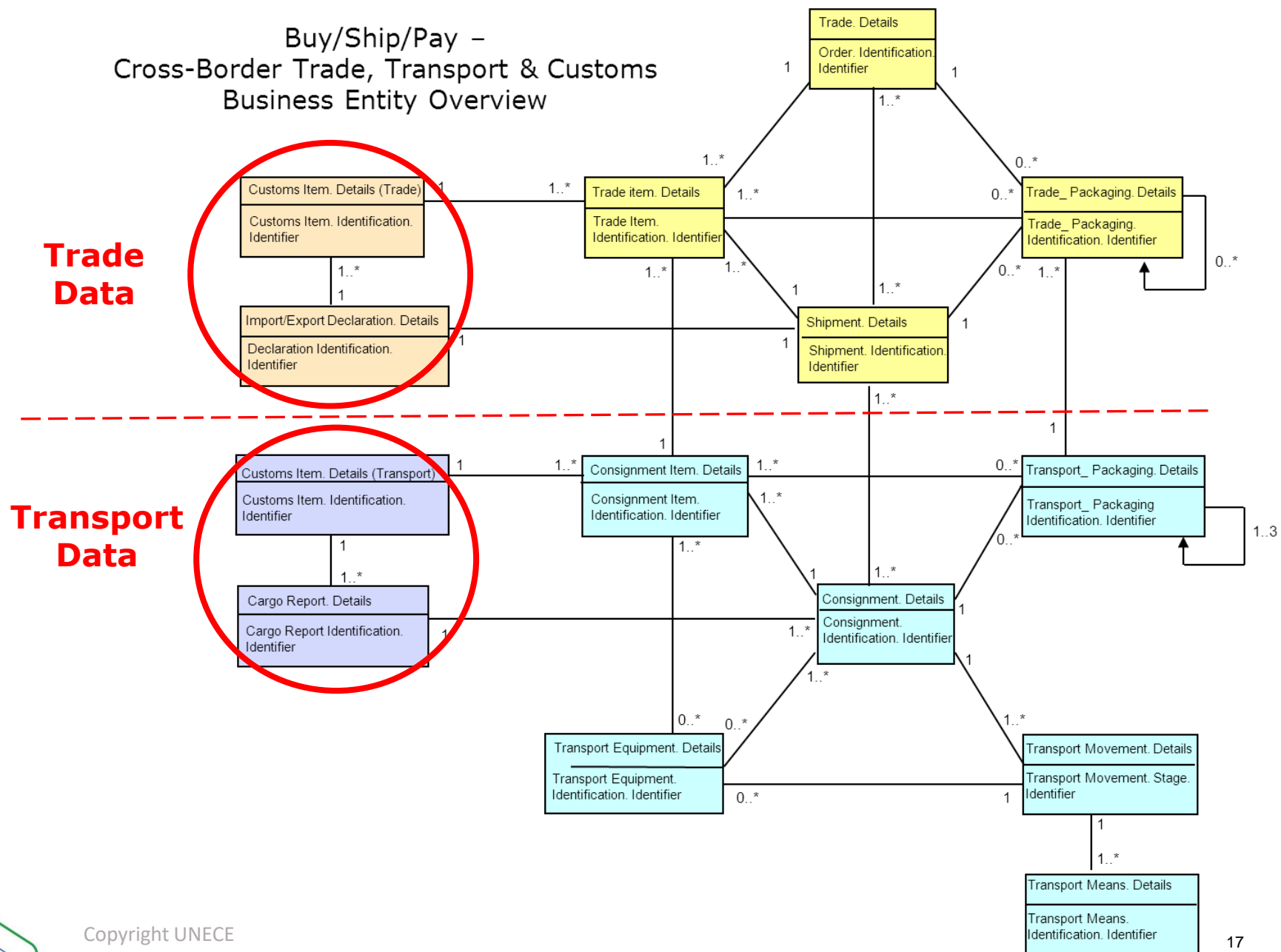


# UN/CEFACT International Supply Chain Reference Data Model Family - Future

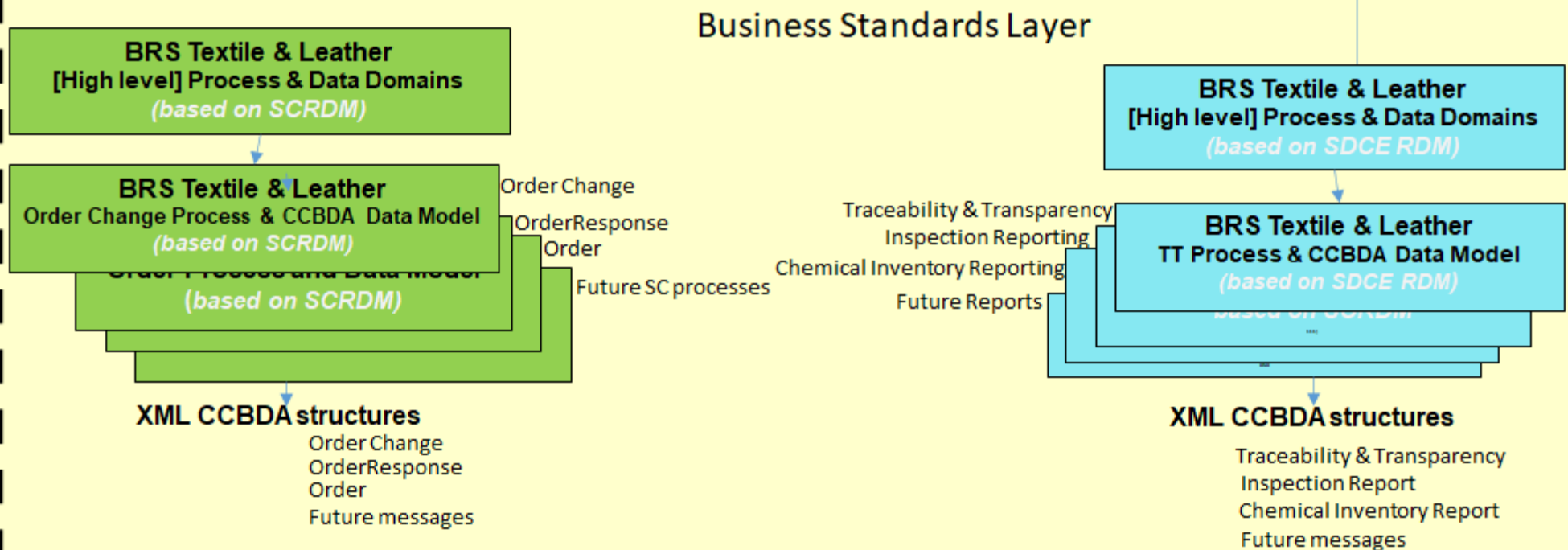
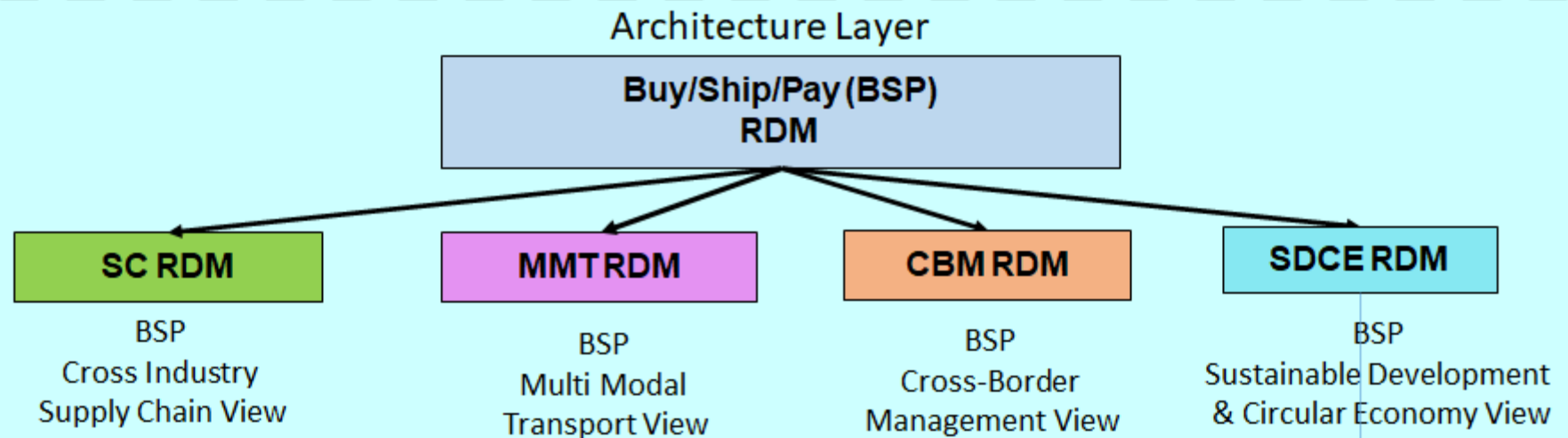




## Buy/Ship/Pay – Cross-Border Trade, Transport & Customs Business Entity Overview



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



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



BUY SHIP PAY (BSP)

*Semantic model  
subset of UN/CCL*

BUY PAY (Supply Chain)

CCL subset

BUY SHIP PAY

*Master message structure*

BUY PAY

Master message structure

BUY PAY

*Exchange syntax-neutral  
data exchange structure*

Invoice data exchange  
structure

Syntax Instantiation e.g.  
XML schema, JSON LD?

Supply  
Chain  
RDM

Supply  
Chain  
RDM  
Customised  
Subset  
(Decorated)

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



BUY SHIP PAY (BSP)

*Semantic model  
Subset of UN/CCL*

SHIP (MultiModal Transport)  
CCL subset

BUY SHIP PAY

*Master message structure*

SHIP

Master message structure

MMT subset

*Exchange syntax-neutral  
data exchange structure*

eCMR message structure

Syntax Instantiation e.g.  
XML schema, JSON LD?

**Multi  
Modal  
Transport  
RDM**

**Multi  
Modal  
Transport  
RDM  
Customised  
Subset  
(Decorated)**

UN / CEFACT



# Thank You

- All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at:
- [www.unece.org/cefact/](http://www.unece.org/cefact/) and [tfig.unece.org](http://tfig.unece.org)
- All experts are welcome to join the standards development work free of charge

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