

# 41<sup>st</sup> UN/CEFACT Forum - Bangkok

## From Documents to Data in Trade: Accelerating Adoption and Fostering Digital and Green Transformations



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# 41<sup>st</sup> UN/CEFACT FORUM

2-5 OCTOBER 2023 | BANGKOK | THAILAND

# About UN/CEFACT

## Objectives

- Simple, transparent and effective processes for global business
- Efficient and automated exchange of information
- Targeted support to SDGs 8, 12, and 17

## Key tools

- 50 global trade facilitation recommendations
- 950 e-Business standards and guidelines

## Means

- Public-Private Partnership
- Over 1500 volunteer experts working on 39 active projects
- Bi-annual Forums and annual Plenary sessions
- Regular Bureau calls



# Partnerships and Collaboration



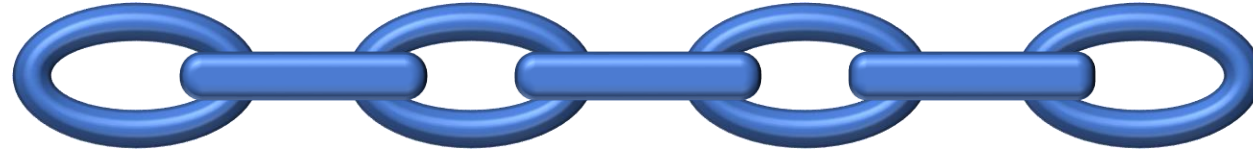
EEC

EU  
 DG-MOVE  
 DG-TAXUD  
 DG-MARE  
 DG-DEVCO  
 DG-DIGIT  
 ...

ISO  
 IEC  
 ITU  
 WTO  
 ITC  
 IATA  
 ICC  
 WCO  
 OECD

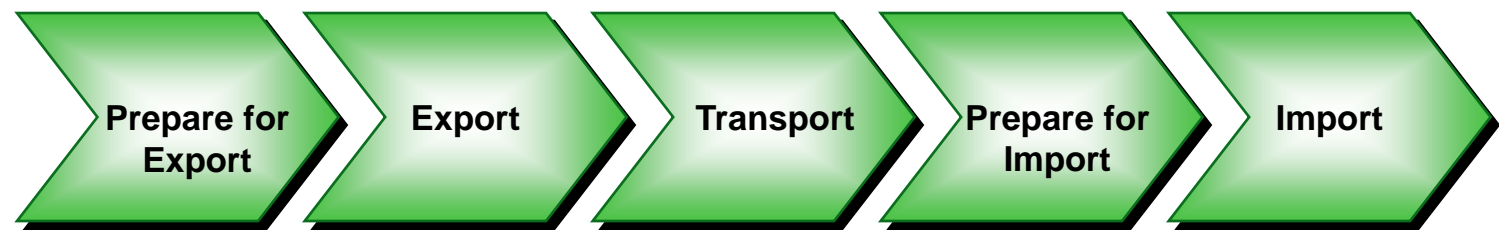
DCSA  
 IPCSA  
 PROTECT  
 FIATA  
 SMDG

# Global Supply Chain Holistic Multimodal links



- Most dematerialization projects are only looking at one sectoral view
  - The international supply chain is very complex
  - Almost all sectoral views are just one part of a global supply chain
- A holistic view and approach are needed
  - Information will not be related purely to goods or purely to transport or purely to regulatory
  - There are clear links between the information in each part of the global supply chain
- UN/CEFACT deliverables all take this holistic approach
  - **Cross Industry**
  - **MultiModal**
  - **Cross-border Agencies**


# UN/CEFACT International Supply Chain Processes



## INVOLVES


**Commercial Procedures**

- Establish Contract
- Order Goods
- Advise On Delivery
- Request Payment
- Packing
- Inspection
- Certification
- Accreditation
- Warehousing



**Transport Procedures**

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




**Regulatory Procedures**

- Obtain Import/Export Licences etc
- Provide Customs Declarations
- Provide Cargo Declaration
- Apply Trade Security Procedures
- Clear Goods for Export/Import



**Financial Procedures**

- Provide Credit Rating
- Provide Insurance
- Provide Finance
- Execute Payment
- Issue Statements



# What does UN/CEFACT have to offer?

## Business Standards

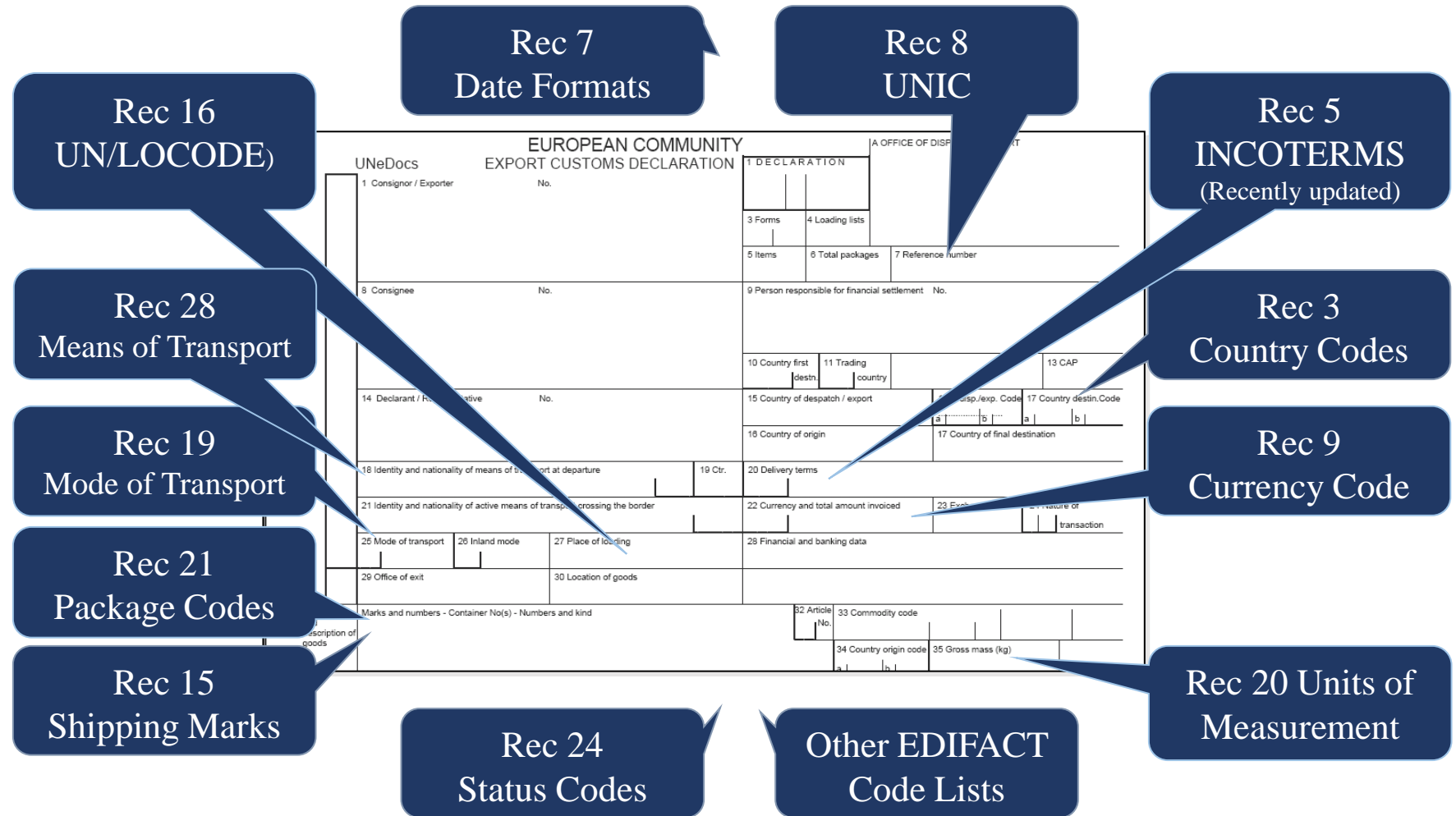
- Process Models (Business Requirement Specification, BRS)
- Reference Data Models (RDMs)
- Semantic Libraries (UNTDED, Core Component Library (CCL), UN/XML, UN/JSON)

## Trade Facilitation Recommendations (Harmonized Code Lists, etc)

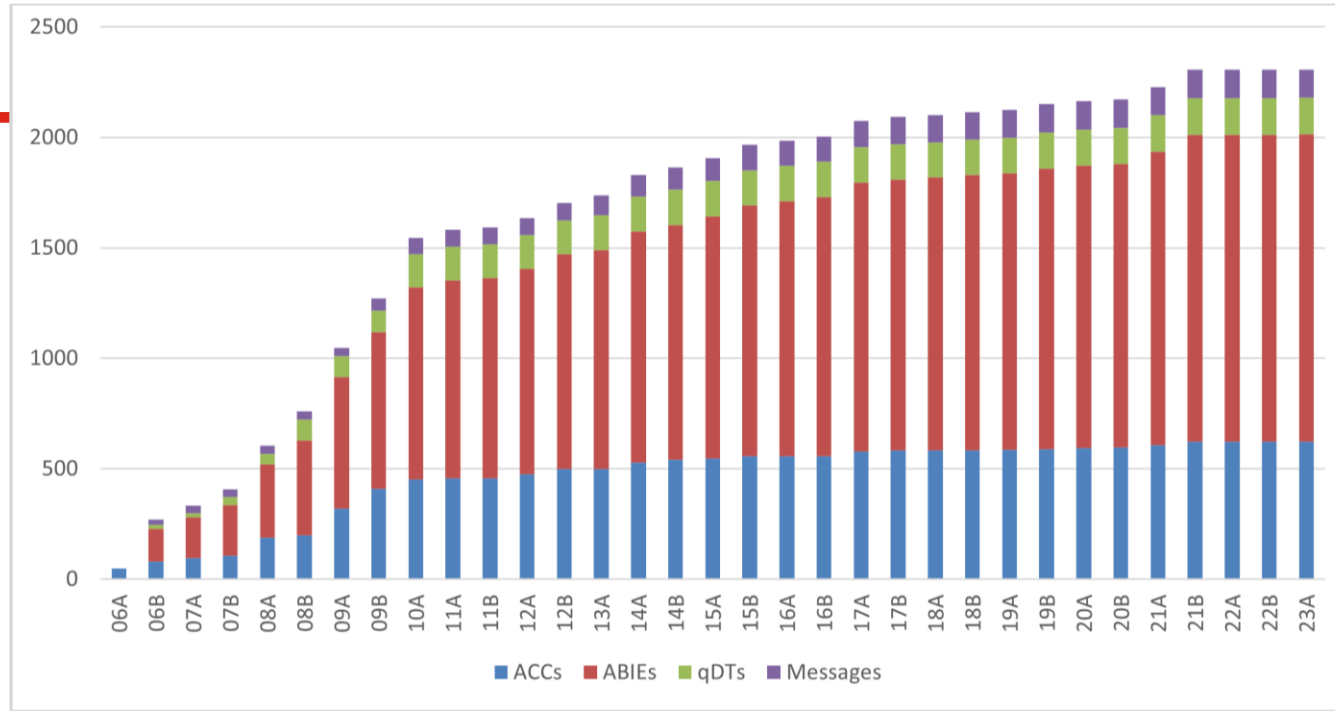
## Technical Specifications

# UN/CEFACT tools to support Digitalization

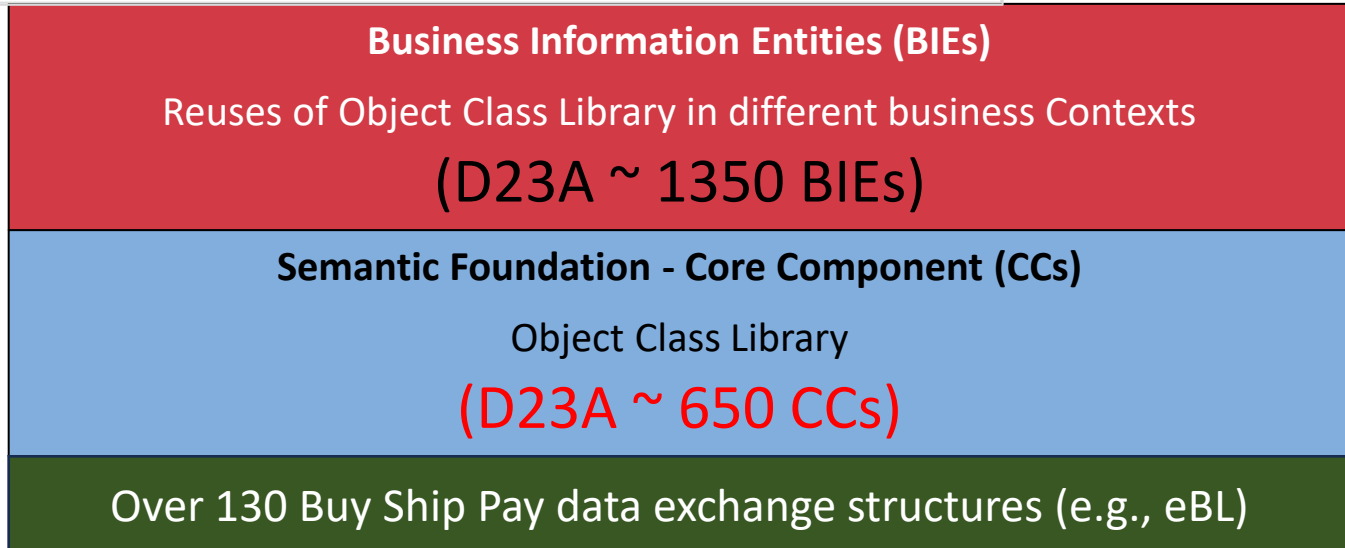
- **Recommendation 14** on authentication of trade documents
- **Recommendation 31** on Electronic Commerce Agreement
- **Recommendation 36** on Single Window Interoperability



# UN/CEFACT Core Component Library



Key:  
 ABIE - Aggregate Business Information Entities  
 ACC - Aggregate Core Component  
 qDT - Qualified DataType





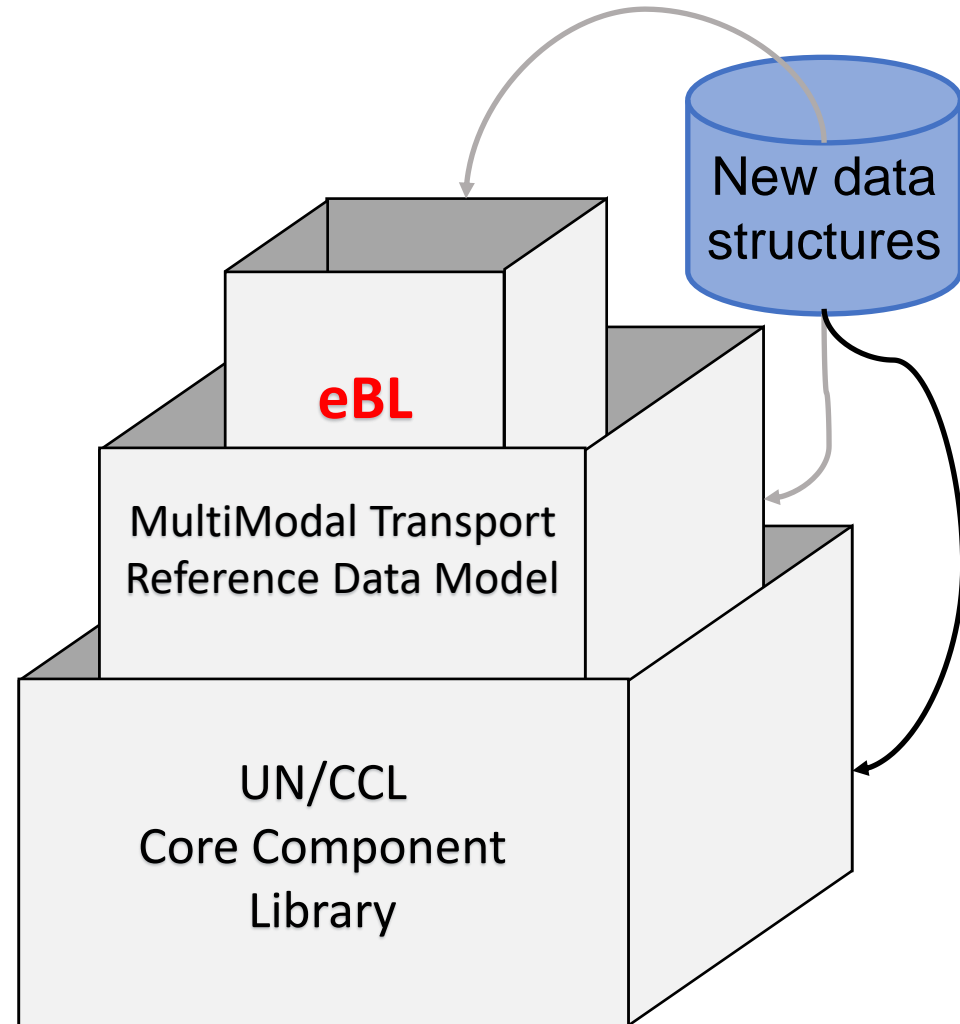
# How CCL growth is managed

Library Maintenance Team responsible for

- Cross-Domain **Harmonisation**

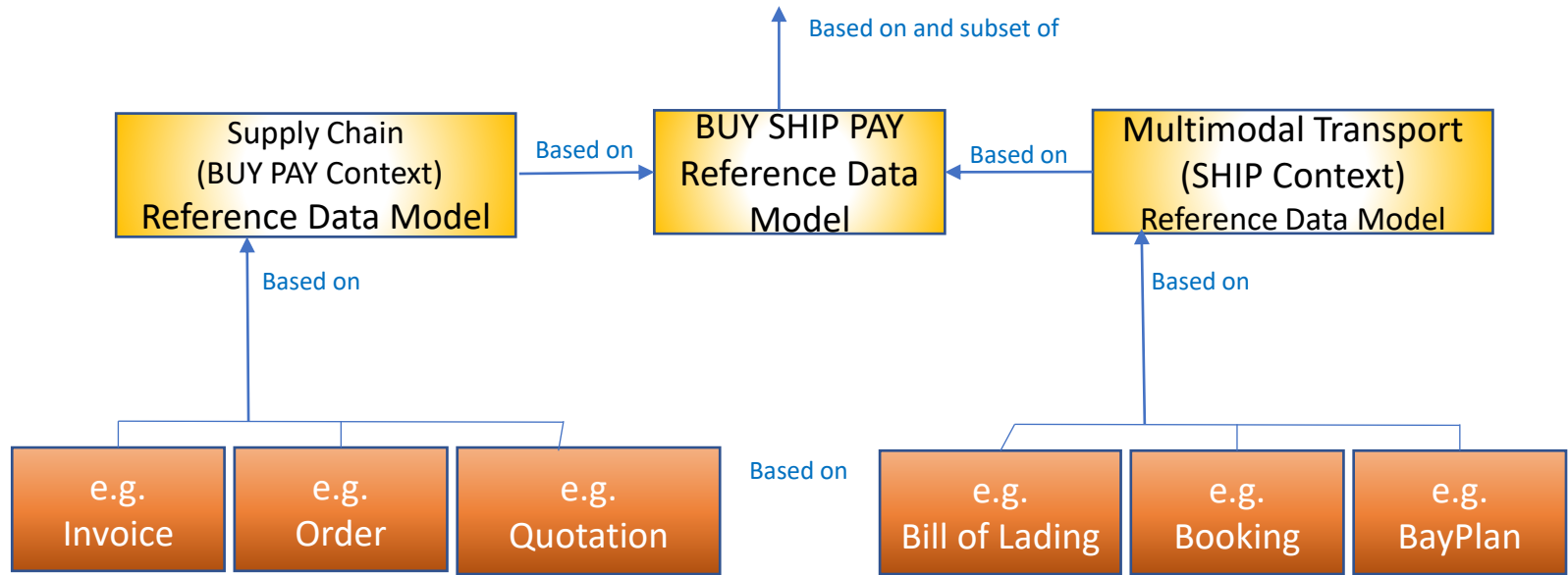
Project Teams responsible for

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



# Building semantic models using a common library

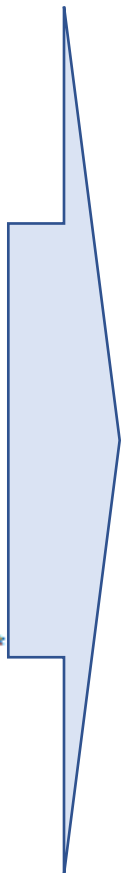
## UN/CEFACT Core Component Library (CCL)



# UN/CEFACT - Reference Data Model – Contextualization of models

## Buy Ship Pay (BSP RDM)

- >  Transport Temperature Setting \*
- >  Transport Waste Component
- >  Transport Waste Material
- >  Transport Cargo Insurance \*
- >  Transport Cargo \*
- >  Transport Dangerous Goods \*
- >  Transport Event \*
- >  Transport Instructions \*
- >  Transport Person \*
- >  Transport Route \*
- >  Transport Service \*
- >  Travel Product Feature \*\*
- >  Travel Product Intermediary Sale \*\*
- >  Travel Product Note \*\*
- >  Travel Product Period \*\*



## Transport (MMT RDM)

- .....
- >  Transport Temperature Setting \*
- >  Transport Waste Component \*
- >  Transport Waste Material \*
- >  Transport Cargo Insurance \*
- >  Transport Cargo \*
- >  Transport Dangerous Goods \*
- >  Transport Event \*
- >  Transport Instructions \*
- >  Transport Person \*
- >  Transport Route \*
- >  Transport Service \*
- >  Travel Product Feature \*\*
- >  Travel Product Intermediary Sale \*
- >  Travel Product Note \*\*
- >  Travel Product Period \*\*

## Supply Chain (SCRDM)

- .....
- >  Transport Temperature Setting \*\*
- >  Transport Waste Component \*\*
- >  Transport Waste Material \*\*
- >  Transport Cargo Insurance
- >  Transport Cargo \*
- >  Transport Dangerous Goods \*
- >  Transport Event \*\*
- >  Transport Instructions \*\*
- >  Transport Person \*\*
- >  Transport Route \*\*
- >  Transport Service \*\*
- >  Travel Product Feature \*\*
- >  Travel Product Intermediary Sale \*\*
- >  Travel Product Note \*\*
- >  Travel Product Period \*\*

# UN/CEFACT - Reference Data Model – Contextualization of messages

## BSP

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

## MMT

Multi Modal Transport 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 \*\*

## SCRDM

SCRDM CCBDA Master Message Structure \*\*

- 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 \*

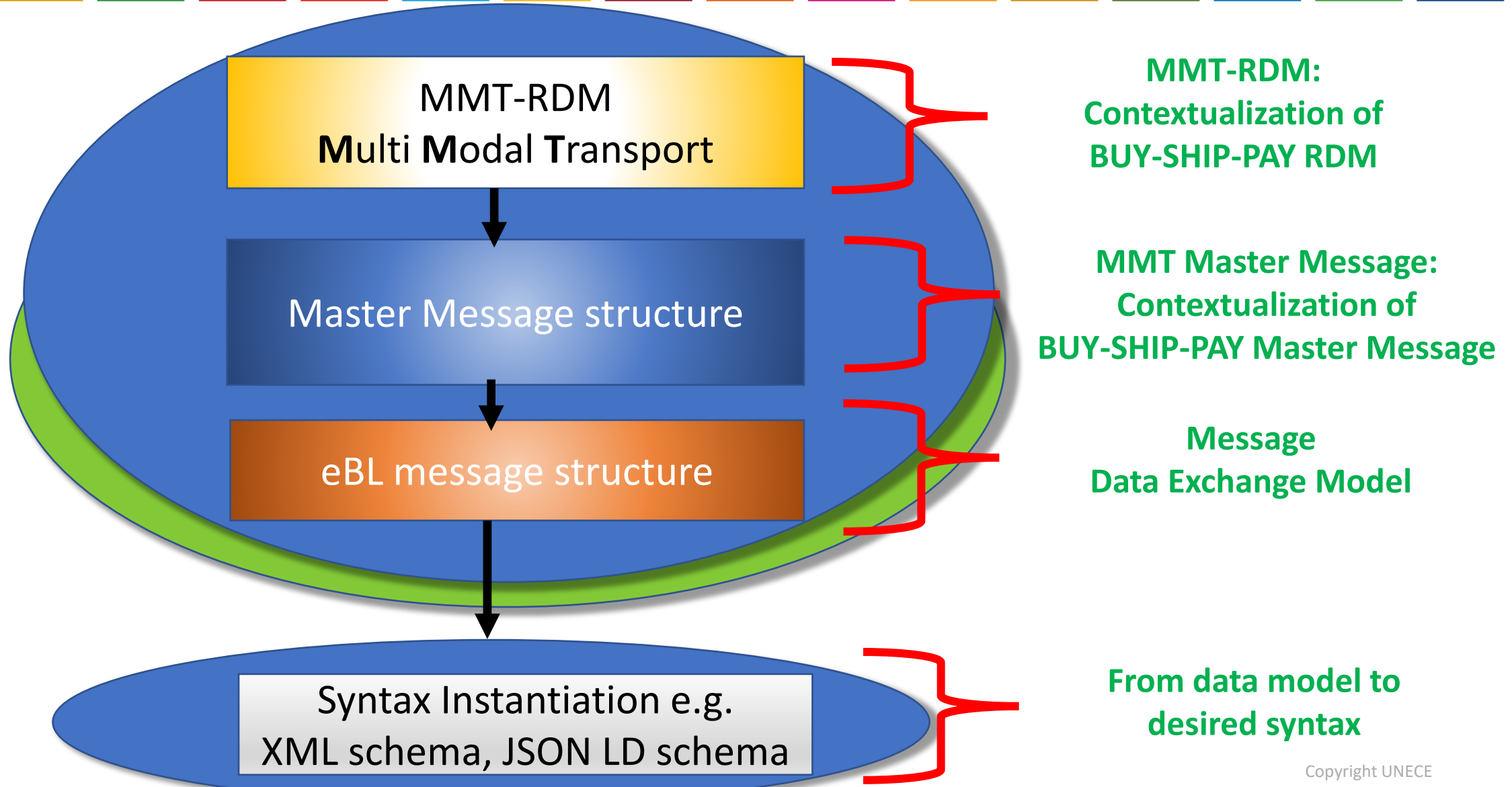


**Customized subsets  
 e.g., Select the needed data  
 elements for eBL**



**Customized subsets  
 e.g., Select the needed  
 data elements for invoice**

# UN/CEFACT - Reference Data Model – from MMT-RDM towards eBL



# UN/CEFACT – Benefits of the Reference Data Models

RDM provides a consolidated list of standardized data and processes for use in a particular business domain, which are globally understandable and exchangeable between parties using common standard data exchange structures

This enables having

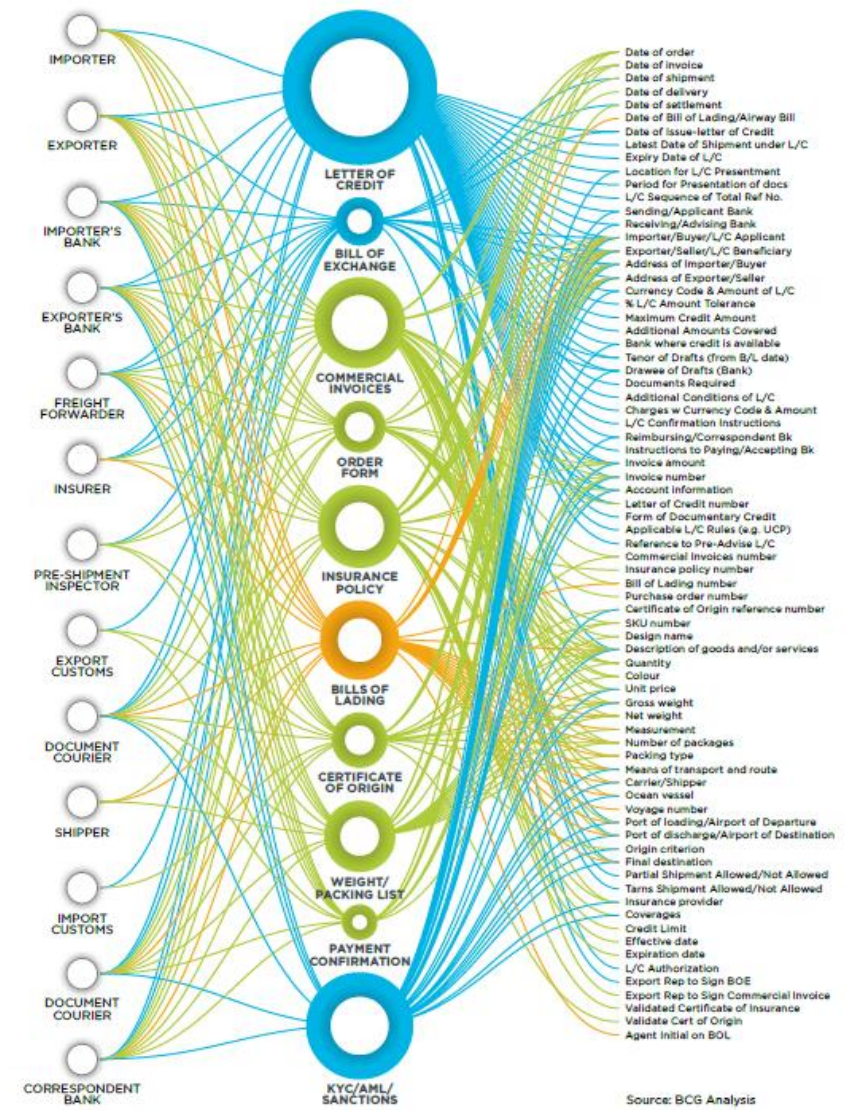
1. The simplification and harmonization of trade data
2. The interoperability of data across the supply chain
3. Common basis for implementing chosen data exchange syntax(es)
4. Reduction of administrative burden by efficient reuse of data shared within the BUY SHIP PAY domain model
5. Standard data exchange structure requirements, which can contribute significantly to reducing the time and costs of international trade transactions

➔ RDM is a key tool in the development of modern Information exchange standards

# UN/CEFACT Buy/Ship/Pay Data Exchange structures for Trade Finance Facilitation

- Trade Finance - a set of techniques or financial instruments used to **mitigate the risks** inherent in international trade to ensure payment to exporters while assuring the delivery of goods and services to importers
- Trade finance lies at the heart of the complex global trade value chains
- The stakeholders are constantly exchanging documents (in paper format) representing and describing the underlying commercial transaction
- The United Nations Conference on Trade and Development (UNCTAD) estimates that **five billion trade documents are exchanged annually worldwide**
- Trade finance business appears today complex, archaic and very poorly automated, as it is dominated by the exchange of paper documents

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# UN/CEFACT Buy/Ship/Pay Data Exchange structures for Trade Finance Facilitation

**Project Purpose** In order to support the implementation of MLETR for title transfer, this project will develop data exchange structures as subsets of the Buy/Ship/Pay Reference Data Model (BSP RDM) to support key trade finance data exchanges as part of the UNECE “digital and green transformations for sustainable development in the ECE region” strategy.

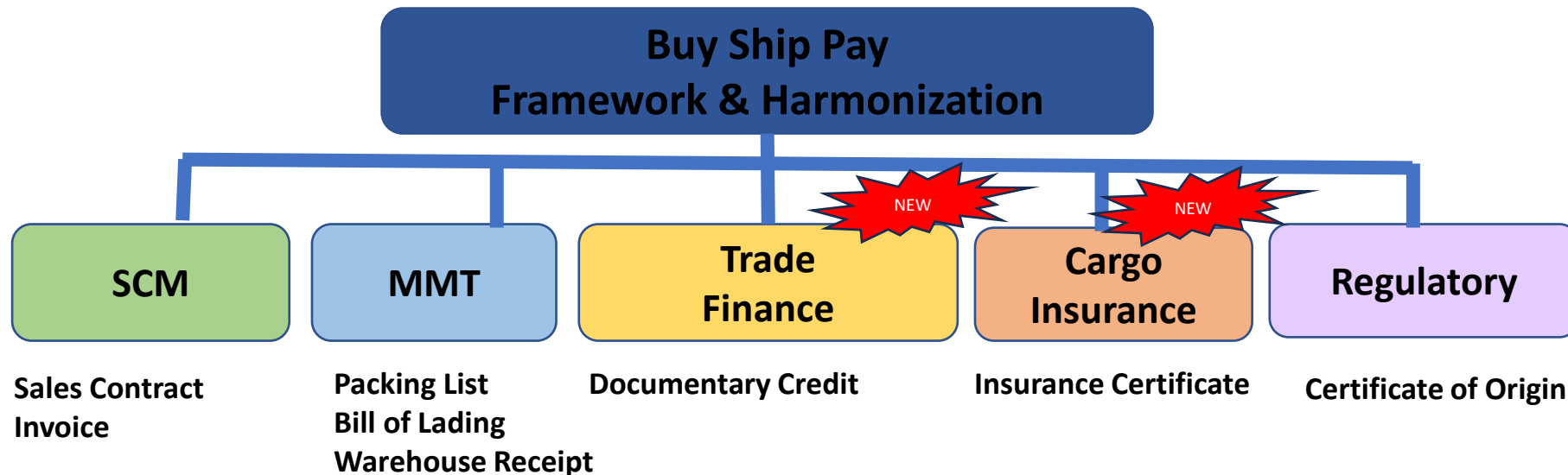
## Project Deliverables

- BRS and eBusiness Standard for Document Credit Advice
- BRS and eBusiness Standard for Non-Preferential Certificate of Origin
- BRS and eBusiness Standard for Maritime Cargo Insurance Certificate
- BRS, implementation guideline and CCBDA subset for Warehouse Receipt
- CCBDA Implementation guideline for Trade Finance Subset for Invoice
- CCBDA Implementation guideline for Trade Finance Subset for Packing List
- Trade Finance White Paper



# Requirements of the UN/CEFACT Buy/Ship/Pay Data Exchange structures for Trade Finance Facilitation

- Based on the Reference Data Models under the BSP-RDM.
- Global Requirements will be addressed
- The scope of the project covers the trade processes from the sales contract to the settlement and the payment.
- Collaborate with relevant organizations, including
  - TC68 (ISO20022 Team) to specify the electronic messages in the trade finance.
  - ICC, DCSA, FIATA, and BIMCO

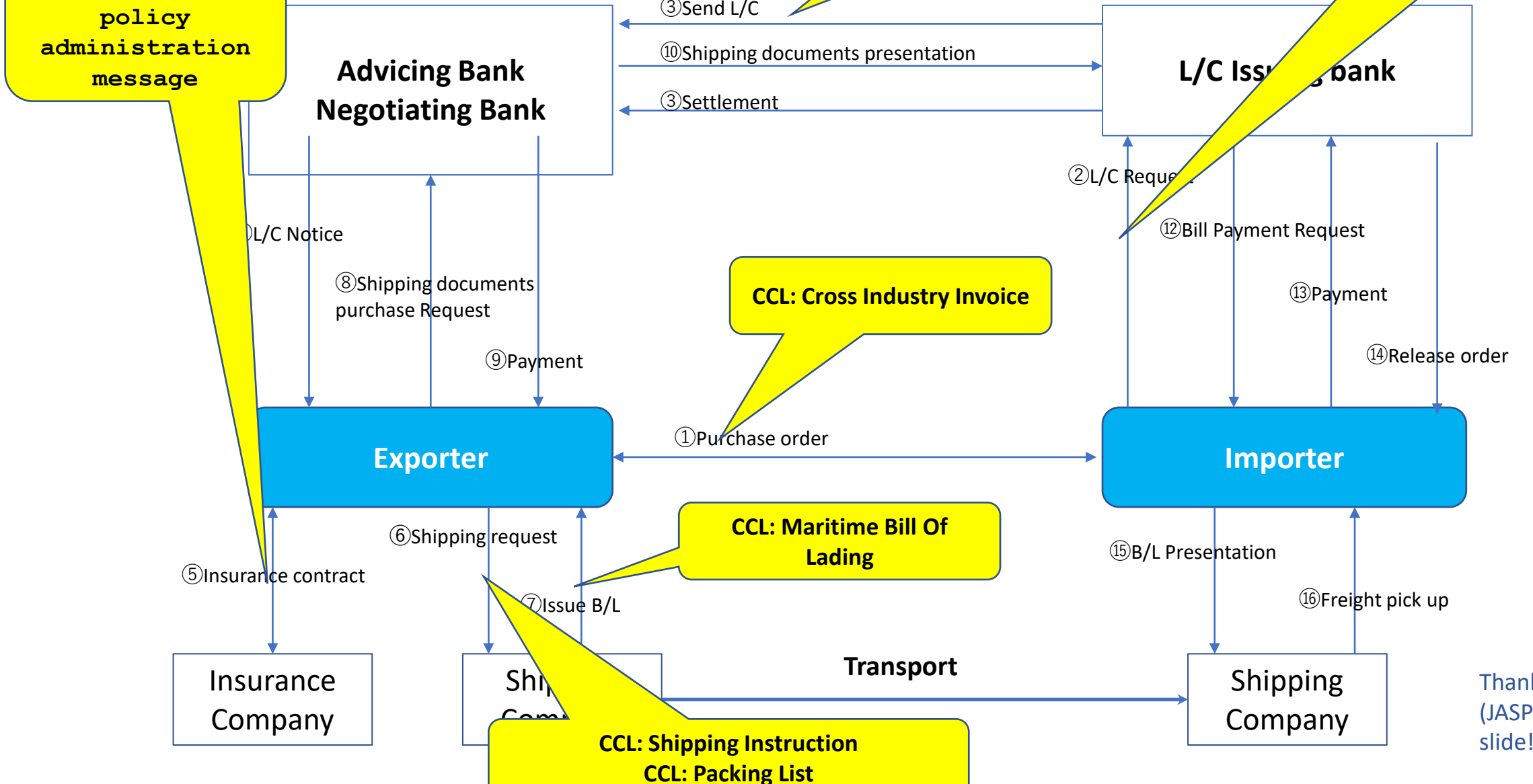


# International Trade vs Standards

**EDIFACT:IPPOAD**  
Insurance policy administration message

**SWIFT: MT700** Issue of a Documentary Credit

**EDIFACT: DOCAPP** Documentary credit application message



Thank you Hisanao (JASPRO) for the slide!

# For further Information

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/)

All experts are welcome to join the standards development work free of charge

UN/CEFACT Secretariat

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## Thank you!

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