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UN CEFACT T&L Domain Smart Containers   UN/CEFACT

United Nations Centre for Trade Facilitation and Electronic Business
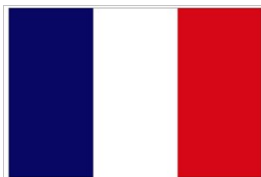
UN/CEFACT

Serves as the focal point for trade facilitation recommendations and electronic business standards, covering both commercial and government business processes that can foster growth in international trade and related services.

UN/CEFACT's goal is, "Simple, Transparent and Effective Processes for Global Commerce."

3 October 2017: UN/CEFACT is pleased to announce the launch of a project on Smart Containers. This project will look at the business processes and potential data to be exchanged between smart containers and the rest of the supply chain actors, notably in view of expediting border clearance. If you are interest in joining this project, please contact the project lead, Hanane Becha.

HOD SUPPORT

UN/CEFACT

Call for Participation UN/CEFACT

UN/CEFACT is open to representatives of all UN Member States and all organisations recognized by the United Nations Economic and Social Council (ECOSOC).

UN/CEFACT deliverables are available to everyone, free of charge on the UN webpages.

Two forum meetings per year + interim meetings when deemed necessary
Monthly conference call for Smart Container Project

In order to participate in UN/CEFACT meeting fill out the expert registration form at:
https://uncefact.unece.org/display/uncefactpublic/UNCEFACT+Expert+Registration
No obligations to participate and no fees involved, but acceptance of the UN/CEFACT Code of Conduct and IPR policy

Shipping lines, BCO, Terminals, Freight Forwareders, Associations, Customs, Solution Providers, etc.

- Governments
- Private companies
- Intergovernmental organizations
- Industry associations (representing large collective groups of private-sector companies)
- Academia

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UN/CEFACT Buy/Ship/Pay (BSP)
Business Process Reference Model

Buy/Ship/Pay BRS

Buy → **Ship** → **Pay**

Commercial Procedures
- Establish sales contract
- Order goods
- Advise on delivery
- Request payment

Transport Procedures
- Establish transport contract
- Collect, transport and deliver goods
- Provide waybills,
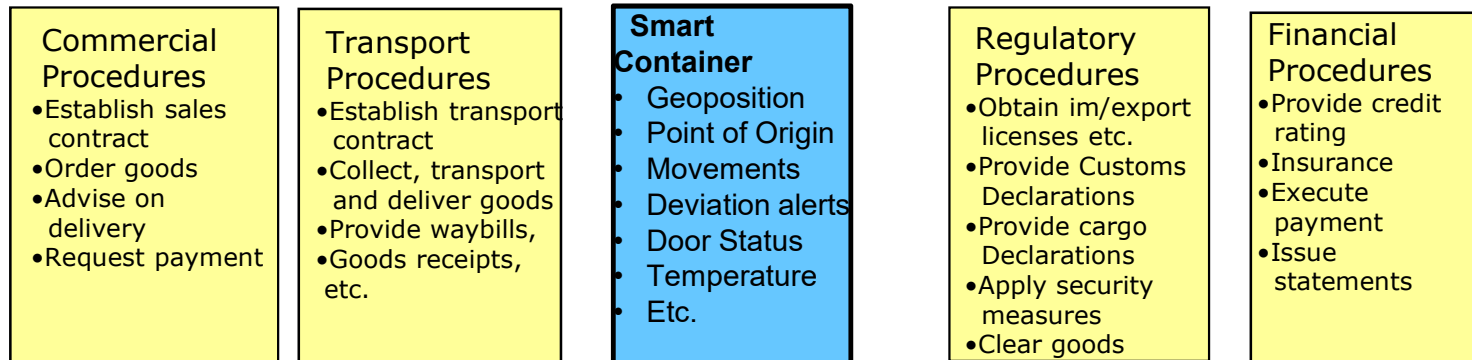- Goods receipts, etc.

Regulatory Procedures
- Obtain im/export licenses etc.
- Provide Customs Declarations
- Provide cargo Declarations
- Apply security measures
- Clear goods

Financial Procedures
- Provide credit rating
- Insurance
- Execute payment
- Issue statements

UN/CEFACT Buy/Ship/Pay (BSP) Business Process Reference Model

Buy/Ship/Pay BRS

Buy ▶ Ship ▶ Pay

NEW

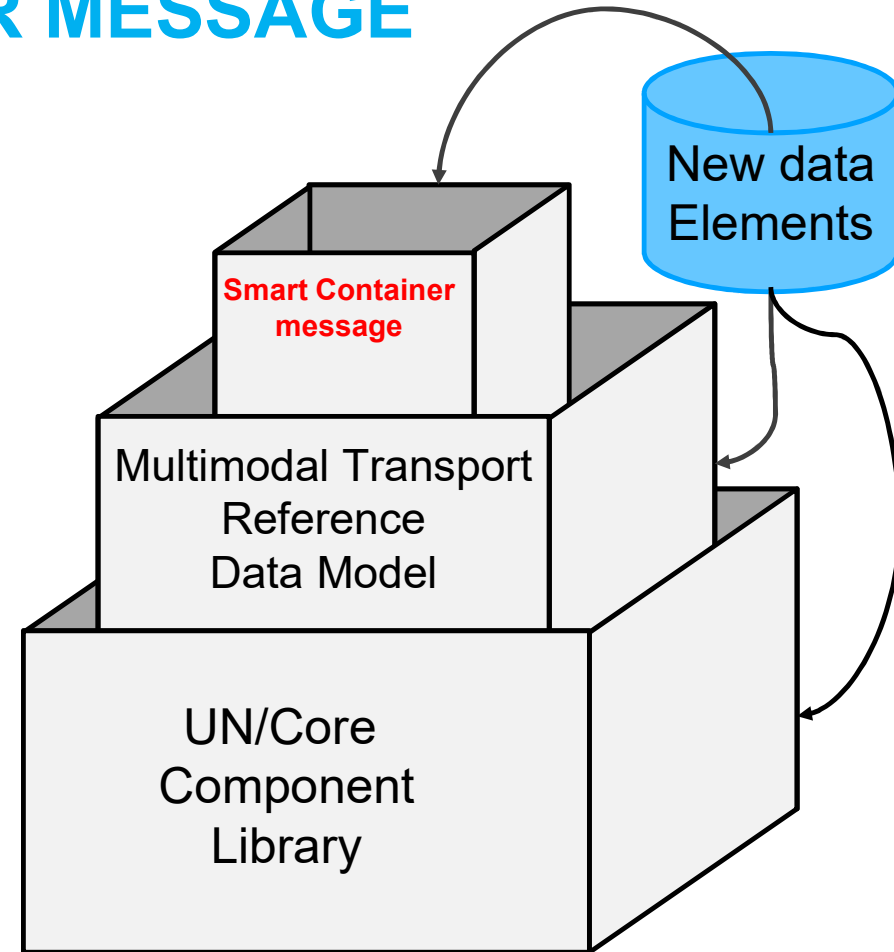| Commercial Procedures	Transport Procedures	**Smart Container**	Regulatory Procedures	Financial Procedures
• Establish sales contract • Order goods • Advise on delivery • Request payment	• Establish transport contract • Collect, transport and deliver goods • Provide waybills, • Goods receipts, etc.	• Geoposition • Point of Origin • Movements • Deviation alerts • Door Status • Temperature • Etc.	• Obtain im/export licenses etc. • Provide Customs Declarations • Provide cargo Declarations • Apply security measures • Clear goods	• Provide credit rating • Insurance • Execute payment • Issue statements

SMART CONTAINER MESSAGE

Smart container message will detail the data exchanges and standard mappings to service different partners: Freight Forwarders, Carriers, Shippers; Logistics providers and other International Supply Chain actors…

Smart Container Message is based on the Transport Reference Data model – a subset of the CORE component Library

The Core component Library will be enriched with new data elements generated by smart container

Smart Container Project Deliverables

- White paper

- Business Requirements Specification (BRS)

- Requirements Message Specification (RSM)

- Standardized message structure based on the MMT Reference Data Model

=> Today 18 use cases are identified…

Use cases 1/2

1. ETA Updates

2. Compliance

3. Actual Executed Transit Time

4. Schedule Deviation Alert

5. Unexpected Door Opening Detection

6. Unexpected Temperature change for Temperature Sensitive Cargo

7. Unexpected Humidity Change for Sensitive Cargo

8. Missing containers from onboard of vessels

9. Short-shipped: Forgotten containers

Use cases 2/2

10. Overlanded: discharged in the wrong port

11. Fragile Cargo / Breakable Artefacts

12. Dry Container Temperature Monitoring

13. Empty gate-in at Depot

14. Depot reconciliation

15. Trip Tracking for merchant haulage container

16. Fast lanes for cross-border agencies

17. Container daily status message for Fleet Management & Usage KPIs