UN/CEFACT Supply Chain Cross-Industry Track & Trace project

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UN/CEFACT Cross Industry Supply Chain
Track & Trace Project

The mission of this project: Where is the product at any time?

• Track & Trace any *traded items* (including bulk transportation)
• Track & Trace transport equipment or assets, even empty (pallet, container)
• Enable Track and Trace information sharing in *standard* electronic format
• Define data that will be generated and captured at various waypoints
• Focus on logistic service: transport the traded goods between *sellers* and *buyers*. 
Focus on Commercial and Logistical processes

International Supply Chain Processes and Procedures

**Actors/Roles**

- **Commercial**
  - Order Goods
  - Deliver
  - Pay for Goods
- **Logistical**
  - Order Transport
  - Ship Goods
  - Pay Carrier
- **Regulatory**
  - Issue Licence
  - Clear Goods
  - Pay Duties
- **Financial**
  - Instruct Payment
  - Credit/Debit Accounts
  - Provide Statements

**Actors/Roles**

- **Customer/Buyer**
- **Supplier/Seller**
- **Supplier/Consignor**
- **Customer/Consignee**
- **Customer/Importer**
- **Supplier/Exporter**
- **Intermediary/Carrier**
- **Customer/Payor**
- **Supplier/Payee**
- **Authority/Customs & OGAs**
- **Intermediary/Bank**
Tracking & Trace Methods

• Traditional tracking methods – manual and automated
• Automated Identification and Data Collection (AIDC) methods
  • Radio Frequency Identification Technology (RFID-based tracking)
  • Optical Character Recognition Technology (OCR-based tracking)
• Global Positioning System using Internet of Things (IoT) telematics devices (GPS-based tracking)

Note. The environmental parameters captured by smart containers are not part of the T&T project
Transparency in Supply Chain

Innovation & Standards are needed to increase the efficiency, resiliency and sustainability of logistics!

Smart containers
• Physical reliable data for end-to-end visibility
• UN/CEFACT Smart container project achievements

Cross industry Multimodal Track & Trace
• Track & Trace beyond a single mode of transport
• UN/CEFACT Supply Chain Cross-Industry Track & Trace project

Avoid Paving the Cow
Business process should not be automated as it is BUT should be rethought first to enhance its effectiveness and efficiency!!
Transition from the standards adopted by individual transport modes to multimodal efforts standards organizations

Information is searchable, available, and interpreted the right way

Transparency
Multimodality
Interoperability
Collaboration
Standards
Track & Trace Project
Current Status and Deliverables

• Information gathering phase: Green Paper compiling concepts, scenarios, and use cases for all primary modes of transport - has been completed (82 pages)

Formal DELIVERABLES of the project:
• White Paper: “Integrated Track and Trace for Multi-Modal Transportation” completed
• Business Requirements Specification (BRS) detailing the Business Processes of Cross Industry Track and Trace (In progress)
• Message structures (as class diagrams) for the business transactions and XML Schemas
Thank you

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