

The multiple facets of traceability and the solutions provided by UN/CEFACT

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eB-MoU Webinar on Traceability



Different forms of traceability

- **Logistics** tracking of a logistics asset (pallet, container, box, etc.), to know where it is in the cross-border supply chain
- **Policy compliance** of regulated products, to ensure that all relevant regulations (economic, social or other) have been respected, especially when crossing borders
- **Technical visibility** of all data exchanges, to ensure that the information has not been compromised or changed

Logistics traceability

Basic principles

- Where is my box and when will it arrive at the border and when will it be delivered to final destination?
- Can also include logistics information on the condition/status of the traceable asset.
- Involves tracking of logistics units and not products



Logistics traceability

Key concepts

- Tracing is knowing the history of the logistics asset (at any given time)
- An identifiable logistics asset (transport equipment, packaging or bulk)
 - The logistics asset is independent of the type of product it contains
- The focus is on logistics services between buyer and seller
- Essential for customs pre arrival risk analysis
- Can be very different depending on type of logistics assets
 - Perishable, temperature controlled, pharmaceutical, open-bed...
- Can also include tracing the conditions of transport
 - Temperature/humidity variations, doors opening, shocks, changes from planned itinerary
- Multi-modal aspects can modify how and what information is available
- Traceability ends when the logistics asset is delivered

Logistics traceability

Key success factors

- Use of electronic exchange of data
- Standardized exchange of information
- Clearly identifying the traceable logistics assets
- Value added services across the cross-border supply chain
- Visibility for regulatory controls at the border (pre-arrival, AEOs)

Logistics traceability

UN/CEFACT deliverables in this area

- Smart Container eBusiness Standard
- Data Pipeline eBusiness Standard
- Multi-Modal Transport Reference Data Model

UN/CEFACT work in progress in this area

- Cross-Industry Supply Chain Track and Trace project
- Cross Border Management Reference Data Model

Policy compliance traceability

Basic principle

- Are regulated products and their components compliant with a policy requirement?
- As regulated products and components are traced, additional information is linked to the traceability data about the what (i.e. organic or not?), the who (i.e. certified or not?) and the why/how (i.e. a clean manufacturing process or not?)
- Only involves a tracking at the logistics level when this is relevant to the regulated product's continued compliance with a policy requirement

Policy compliance traceability

Key concepts

- Enhance visibility and transparency in value chains
- Ensure regulated products conform with policy requirements, such as:
 - Conformance with applicable laws and regulations
 - Ensure product quality and safety
 - Combat counterfeits
 - Protect cultural and industrial heritage
 - No human rights violations
 - No adverse environmental effects
 - No human health hazards
 - Verification of origin
- Ensure regulated products have conformed with sustainability and circularity requirements

Policy compliance traceability

Key success factors

- Awareness
- Knowledge
- Risk-based analysis
- Commitment
- Engagement
- Structure implementation
- Norms and standards
- Appropriate technology
- Inclusiveness
- Harmonized regulatory regimes

Policy compliance traceability

UN/CEFACT deliverables in this area

- Fisheries Language for Universal eXchange (UN/FLUX)
- Electronic SPS Certificate (eCERT)
- Animal Traceability
- Traceability of Primary Natural Products
- Electronic Animal Passport

UN/CEFACT work in progress in this area

- Sustainable Textile and Leather Traceability and Transparency Project

Technical visibility

Basic principles

- Is the electronic data exchange unaltered and trustworthy?
- Technical visibility does not guarantee data quality
- Does not directly relate to products or packages.

Technical visibility

Key concepts

- Has the appropriate person authenticated the message?
- Has the message been tampered with?
- Has the message been viewed by stakeholders without proper authority?

Technical visibility

Key success factors

- Authentication methodology proportionate to the data exchanged and the relationship between the stakeholders
- Agreed methodologies for data exchange
- Common harmonized semantic base

Technical visibility

UN/CEFACT deliverables in this area

- UNECE Recommendation 14: Authentication of Trade Documents
- White Paper Overview of Blockchain for Trade
- White Paper on Technical Application of Blockchain to UN/CEFACT Deliverables

UN/CEFACT work in progress in this area

- UN/CEFACT Chain project
- Digital ID for Trade Facilitation project
- Cross-border Inter-ledger exchange of Preferential Certificates of Origin

- All experts are welcome to join the work of UN/CEFACT after registration:
 - <https://uncefact.unece.org/display/uncefactpublic/UNCEFACT+Expert+Registration>
- All deliverables of UN/CEFACT are available free of charge on our website
 - <http://www.unece.org/tradewelcome/un-centre-for-trade-facilitation-and-e-business-uncefact/outputs.html>
- All UN member States are welcome to participate in the approval processes

Рақмет сізге Rhamat

Ďakujem



Merci

شكرا جزيلاً

Дякую

Hvala

ありがとうございました

Tack

Çox sağ ol

Dziękuję Ci

Ευχαριστώ

Obrigado

Ačiū

მადლობთ

Баярлалаа

धन्यवाद

Dankon

Sagbol

Спасибо

Thank you

Diolch

Хвала вам

Hatur nuhun

감사합니다

Any questions?

Paldies

Faleminderit

Grazzi

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Grazie

Mulțumesc

Ačiū

Danke

Благодаря ти

Faafetai

Rahmat

Շնորհակալություն

Takk skal du ha

Aitäh

សូមអរគុណ

谢谢

Köszönöm

Дзякуй

Gracias

Ви благодарам

Děkuji

Salamat



Tak skal du have

Рахмат сага

Gràcies

Asante

תודה

धन्यवाद

Mahalo

Kiitos

Go raibh maith agat

Teşekkür ederim

Dank je

Dankon

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þakka þér fyrir

Dankie

