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SPECA High Level Seminar

New UN/CEFACT Tools for Trade Facilitation

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UNECE – UN/CEFACT
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UN Economic Commission for Europe (UNECE)

Trusteeship Council	Security Council	General Assembly	Economic and Social Council	International Court of Justice	Secretariat

FUNCTIONAL COMMISSIONS:

- Human rights
- Narcotic drugs
- Crime prevention and criminal justice
- Sustainable development
- Etc…..

REGIONAL COMMISSIONS

Economic Commission for Africa

Economic Commission for Europe

Economic Commission for Latin American and Caribbean

Economic and Social Commission for Asia and the Pacific

Economic and Social Commission for Western Asia

PROGRAMMES AND FUNDS

- UNCTAD
- UNDP
- UNEP
- UNICEF
- UNCDF
- …….

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Smart Connectivity

- Clear, free, openly available and harmonized standards, recommendations, guidance, regulations, conventions… in order to promote seamless exchanges
- Applying Information and Communication Technologies and innovative processes to improve interactions (between people, companies, governments, economies, objects)
- Bringing together public service needs with private sector innovation and financing capabilities

UN/CEFACT – UN Centre for Trade Facilitation and Electronic Business

Objectives

Simple, transparent and effective processes for global business;
Efficient and automated exchange of information

Key Tools

- Global trade facilitation recommendations
- eBusiness standards
- Guidelines

Means

Public-Private Partnership – over 1000 experts;
Meet virtually practically every weeks

Semantic Hub for Standardization

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

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Some UN/CEFACT work

SINGLE WINDOW

UN/CEFACT developed the first guidance on Single Window and that definition has been used as the basis for all subsequent work. Our guidance covers implementation, data, legal, interoperability.

DOCUMENT LAYOUT

Since the 1960s UN/CEFACT and its predecessors have provided standards for the standardization of the layout of trade documents. The UN Layout Key is the basis of almost all cross border trade documents.

eINVOICING

The UN/CEFACT Cross-Industry Invoice has been chosen as one of the obligatory formats for all public procurement for certain countries and its use will facilitate cross border exchanges.

PROCESS DRIVEN

Traditional electronic messages reflect their original paper documents rather than supporting modern process collaborations such as blockchain. UN/CEFACT is leading the path in this new approach.

These are some examples of UN/CEFACT's deliverables. The full list can be found and downloaded free of charge on our website: www.unece.org/cefact

UN/EDIFACT

The first global electronic data interchange format, UN/EDIFACT is still today the most important centrally developed and maintained EDI standard covering transport, regulatory, supply chain and more.

NTFB (National Trade Facilitation Bodies)

Trade facilitation is not just the domain of the public sector. To be truly effective, private sector concerns and input must be fully considered. This is reflected in UN/CEFACT Recommendations 4 & 40.

TOURISM

Improving tourism capabilities at a local level helps to improve lives and economies. UN/CEFACT develops and maintains a series of messages designed to enable small scale lodgings to enter markets.

SUSTAINABLE FISHERY

The UN/CEFACT FLUX messages are used in more and more countries to declare fish catches, conformity to regulations & port entries. Their use allow cross-border communication of the information seamlessly.

eSPS CERTIFICATES

Sanitary and Phytosanitary certificates are a regular part of imports and exports. The UN/CEFACT eCert is used to communicate these in international trade.

UN/CEFACT Work on Blockchain

- White Paper on Trade Facilitation Processes
  - Presenting the functionalities blockchain offers that can't be achieved by other means
- White Paper on Standards
  - Considering relationships with current standards
  - Studying what new standards are necessary

Work in progress:

- Sectoral Use Cases
  - Presenting 31 case studies in 10 Industry sectors
- Cross-border Inter-ledger exchange
  - For Preferential Certificates of Origin using Blockchain
  - Looking at key issues to consider while creating, administering and using such platforms

Blockchain challenges

- Not all blockchains are equal. They can vary in:
  - Vulnerability, robustness, cost, speed and ability to scale up, degree of privacy
- Cannot reasonably expect all exchanges use a same blockchain solution. Interoperability issues:
  - Semantics, syntax, trust
- Implied cost of the standard may in fact create new barriers to trade

Blockchain challenges

- The chosen method of authentication should be "as reliable as was appropriate for the purpose for which the data message was generated or communicated, in the light of all the circumstances, including any relevant agreement."

- Blockchain is a very high level of reliability and not all data transactions require the highest level of reliability

UN/CEFACT Recommendation 14 (2014), paragraph 37.
Article 7.1, UNCITRAL "Model Law on Electronic Commerce with Guide to Enactment 1996 with additional article 5 bis as adopted in 1998" United Nations, New York, 1999, p.5-6.

UN/CEFACT & Internet of Things

- Smart Container project
  - Looking at the data which would be shared with the rest of the supply chain
  - This could trigger smart contracts and events like invoicing
- IoT general project
  - Launching early 2019 will be looking at other use cases of IoT and how they relate to UN/CEFACT standards
  - Could potentially have the same type of events triggered

Challenges in use of IoT

- Engineering Challenges
  - Power
  - Networking/Signalling/Presence Detection
  - Interfaces between devices, software programmes
  - Transmission/Bandwidth
  - Connectivity

- Data, Process and Policy Challenges
  - Integration – Process Level
  - Interoperability – Data Level
  - Security – of Citizens and State
  - Privacy

UN/CEFACT brings it all together

- Under the United Nations umbrella
  - Non-competitive; inclusive by nature; free to participate and free for use
- Base semantic definitions
  - Developed in an open, public-private partnership
  - Mature, robust and trusted; developed over twenty years
  - Covers the entire international supply chain; all sectors and all countries
- Base technical specifications
  - Reused by many organizations, promoting interoperability
- International code lists
- Standard messages and processes

Single Window Definition

Recommendation 33 defines a Single Window as:

- a facility that allows parties involved in trade and transport to lodge standardized information and documents with a single entry point to fulfill all import, export, and transit-related regulatory requirements.
- If information is electronic, then individual data elements should only be submitted once.

Source: "Recommendation and Guidelines on establishing a Single Window to enhance the efficient exchange of information between trade and government," Recommendation 33, United Nations, 2005 http://www.unece.org/fileadmin/DAM/cefact/recommendations/rec33/rec33_trd352e.pdf

Parties involved in trade and transport

Standardized information and documents

Single entry point

Regulatory requirements

Single submission of individual data elements

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Revised Single Window Definition

Recommendation 33 defines a Single Window as:

- a facility providing trade facilitation that allows parties involved in trade and transport to lodge standardized information and documents with a single entry point to fulfill all import, export, and transit-related regulatory requirements.
- ~~If information is electronic, then~~ individual data elements should only be submitted once electronically.

Parties involved in trade and transport

Standardized information and documents

Single entry point

Regulatory requirements

Single submission of individual data elements

Source: Revision of Recommendation 33 Project Team

Revision of Rec33: other additions

- Integrating elements from the Technical Note on Single Window Terminology
  - National SW versus Regional SW
  - Multiple SW mechanisms within the same economy
- Not using the term Single Window Environment
- Addressing the existance of legacy systems
- Distinguishing roles of Lead Agency at an implementation phase and at an operational phase
- Considering Single Window in a regional context

Technical Note on Terminology for Single Window

- Single Submission Portal
  - Can be private sector; doesn't require government mandate; may include regulatory procedures…
  - Allows traders to submit information related to a specific activity in a single electronic platform
- Single Environment
  - Collaboration of multiple platforms that work collaboratively to aggregate data related to a transaction
- Single Submission Environment
  - Does not respond to the five point definition of Rec33
- Single Window Environment
  - Must respond to the five point definition of Rec33
  - (possibly not exclusive on the market; different acces points can exist)

Can only be considered a SW if following is true:

	Exclusive on the market for this type of operator	Standardized information and documents	Government mandate for Single Entry Point	Regulatory processes	Single submission point for individual data elements
Single Window	Must be	Must use	Must have	Must include	Must be

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Core Principles of SW Operation

- Risk of dysfunction
- Complaince risk
- Operational risk
- Systemic risk
- Liability risk

For more information…

UN/CEFACT
Where to find documents
www.unece.org/cefact

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- About us
- Domains
- Projects
- Public Reviews
- Outputs
  - Recommendations
  - Standards
    - UN/LOCODE
    - Streamlined presentation of UN/CEFACT standards
    - Business Requirement Specifications (BRS)
    - Core Components Library (UN/CCL)
    - ISO/TC 154
    - Requirements Specification Mappings (RSM)
    - UN/EDIFACT
    - UNTDED-ISO7372
    - XML Schemas
  - Technical Specifications

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Introduction

The United Nations Centre for Trade Fac
Electronic Business (UN/CEFACT) is a sub
intergovernmental body of the United N
Commission for Europe (UNECE) which s
point within the United Nations Econom
Council for trade facilitation recommend
electronic business standards. It has glo
and its members are experts from interg
organizations, individual countries' auth
from the business community.

Key areas of work

Recommendations | Standards

In Focus

- The 33rd Forum was a success with a
meetings at all times throughout the
advancement of all of the regular wor
- The UN/CEFACT 25th Plenary approve
Recommendation 43 on Sustainable F

Streamlined presentation of UN/CEFACT standards

United Nations Code for Trade and Transport Locations (UN/LOCODE)

UN/LOCODE

United Nations rules for Electronic Data Interchange for Administration, Commerce and Transport (UN/EDIFACT)

UN/EDIFACT

Supply Chain Management

Supply Chain Reference Data Model (SCRDM)
Cross Industry Invoice
Cross Industry Delivery
Cross Industry Catalogue
Material Safety Data Sheet Deta
Cross Industry Quotation
Cross Industry Remittance Advi
Cross Industry Scheduling
Contract Financial Execution Ma
Cross Industry Ordering Process
Market Research Information

Transport and Logistics

Multi-model Transport (MMT)
Transport & Logistics - eCMR
Verified Gross Mass (VERMAS)
International Forwarding and Transfer

Transport and Logistics

Multi-model Transport (MMT)

Multi-Model Transport and Logistics (MMT) Reference Data Model

- White Paper on RDM English French Russian
- RDM Guidelines
- BRS
- Executive Guide
- Structure Report / Data Elements
- XSD Schema
- UML Diagram
- HTML index

Transport & Logistics - eCMR

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Where to find documents

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more information & contacts

All UNECE and UN/CEFACT Recommendations, codes, standards and publications are available for free on our website at:

- www.unece.org/
- www.unece.org/trade
- www.unece.org/cefact/
- tfig.unece.org

- Secretary of UN/CEFACT, Head of UN/CEFACT Support Unit:
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Upcoming events of UN/CEFACT

- **UN/CEFACT 34th Forum**
  - 28 October – 1st November, London, UK

Rhamat Дякую Ďakujem

Merci Рақмет сізге

Tack Çox sağ ol Dziękuję Ci Hvala Obrigado

Ευχαριστώ Dankon

მადლობთ

Gracias Хвала вам

Aitäh

Спасибо Diolch

Faleminderit

Danke

Thank you

Paldies Grazzi

Mulțumesc Ačiū

Grazie Благодаря ти

Շնորհակալություն Takk skal du ha

Ви благодарам Köszönöm Дзякуй

Děkuji

Tak skal du have Gràcies תודה

Рахмат сага

Go raibh maith agat

Kiitos

teşekkür ederim Dank je

Þakka þér fyrir

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