

UNECE

Working Party on Intermodal Transport and Logistics (WP.24)

Agenda item 5

GENEVA 6 November 2012



UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES
FOR GLOBAL COMMERCE



ISO
Organisation
internationale de
normalisation

Intelligent Transport Systems (ITS): Opportunities and challenges for intermodal transport

**Electronic trading in international supply chains:
UN/CEFACT and ISO ITS solutions for intermodal transport**

*The Way Forward to Harmonised Electronic Trading
for International Supply Chain*

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Channels of standardization in Transport/Logistics

■ eBUSINESS electronic exchanges : EDI

- CEFACT / United Nations: Transport / Logistics Domain
- CEN / ISSS Information Society Standards Systems / eBES eBusinesses European Standards : Transport EEG2
- Liaison with ISO/TC154 and OASIS / W3C

■ Intelligent Transport Systems

- ISO TC 204 (liaison with UN/CEFACT Transport)
- Other ISO committees: TC 104 Containers, TC 8 Maritime...
- CEN : TC 278 Road Transport Traffic Telematics (RTTT)

■ Telecommunications:

- ETSI European Telecom Standards Institute - User Group and others - exchanges with mobile vehicles, interoperability, human factors...

The Smart Freight.....?

This phrase refers to international projects ITS « Intelligent Transport Systems and Services » and includes the concept to get benefit from the ICT - Information and Communication Technologies - for the freight management

The word « Smart » (or Intelligent) which basically means « able to receive, process and forward information » has a much greater extent since the Transport Systems have strong social implications and contribute to the policies for the road safety, energy savings, environmental protection and more generally sustainable development

Source JFJ / MTI



UN/CEFACT
SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES
FOR GLOBAL COMMERCE



UNITED NATIONS



the focal point
for eBusiness



United Nations Economic Commission for Europe
United Nations Centre for Trade Facilitation and Electronic Business

UN/CEFACT

UN Framework

UNITED NATIONS

GENERAL ASSEMBLY

ECONOMIC AND SOCIAL COUNCIL

ECONOMIC COMMISSION
FOR EUROPE
(Executive Committee)

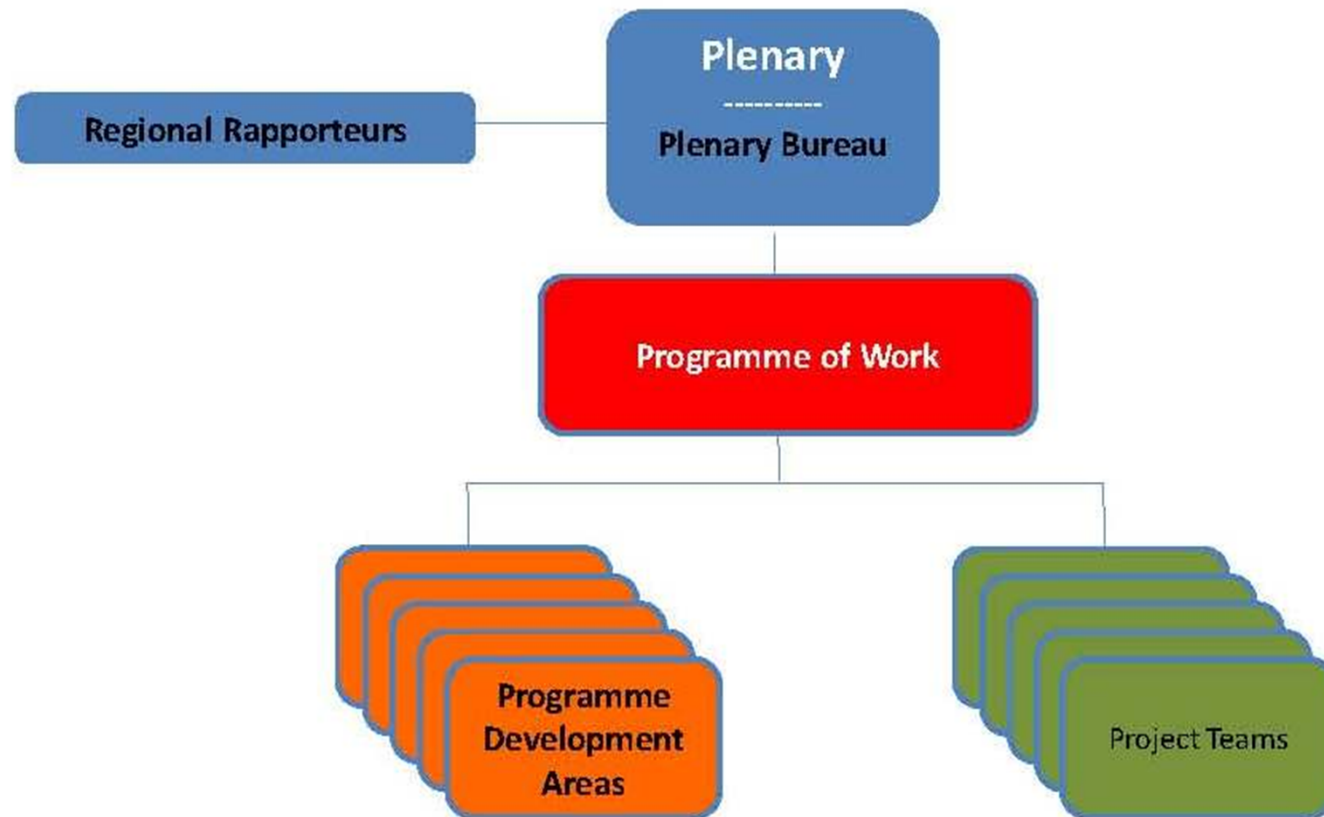
COMMITTEE ON TRADE

CENTRE FOR TRADE FACILITATION
AND ELECTRONIC BUSINESS

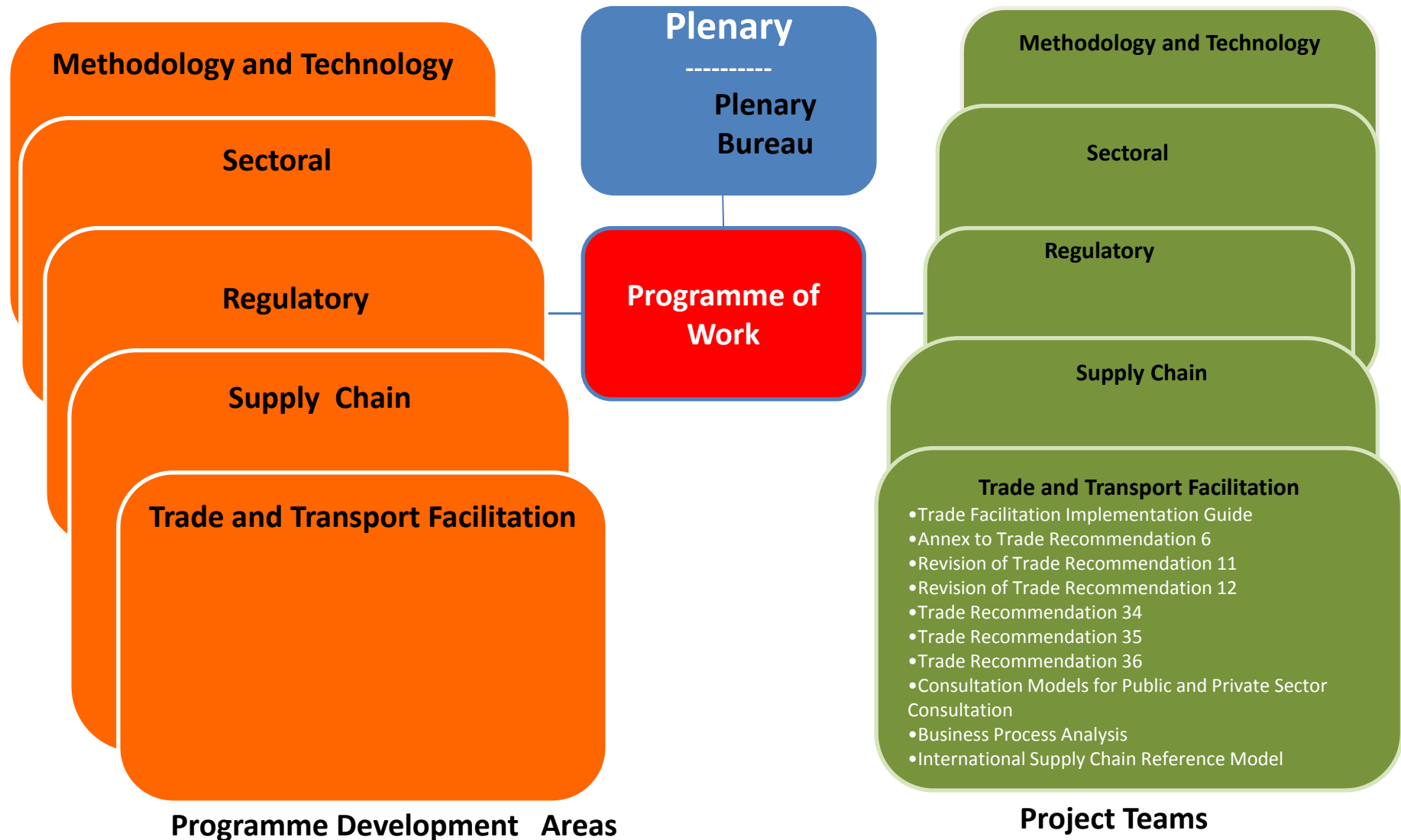


UNITED NATIONS

UN/CEFACT New Structure July 2011



UNECE-WP4_06Nov12





UN/CEFACT New Structure July 2011

UN/CEFACT Registry of Domains

<i>Business</i>	<i>Technical</i>
Accounting & Audit	Audit / Validation
Agriculture	Business Process Modelling
Customs	Communication
Environmental Management	Harmonisation
Finance/Payments	Legal
Government	Library maintenance
Health Care	Library production
Insurance	Methodology
International Trade Procedures	Publications
Procurement	UN/EDIFACT
Supply Chain Management	XML
Transport / Logistics	
Travel/Tourism	



United Nations Economic Commission for Europe
United Nations Centre for Trade Facilitation and Electronic Business

UN/CEFACT

PDA Trade and Transport Facilitation

- Trade Facilitation Recommendations
- Electronic Business Standards
- Governmental & Business Processes
- Transparent and effective processes for global trade





**Vice
Chairs**

**Mats
Wicktor**

**Viktor
Dravitsa**

**Trade and
Transport
Facilitation
PDA**

Domain Coordinators

- **International Trade Procedures (Johan Pontén)**
- **Transport and Logistics (Dominique Vankemmel and Michael Onder)**
- **Customs (SP Sahu)**



The scope and deliverables of the standardization of Electronic Exchanges

- BSP Buy – Ship – Pay International Supply Chain
- EDIFACT Standard Messages (UNSM) and relevant Directories
- Data semantic harmonization
- Business Process Modeling
- Interoperability
- ebXML

International Supply Chain Reference Model





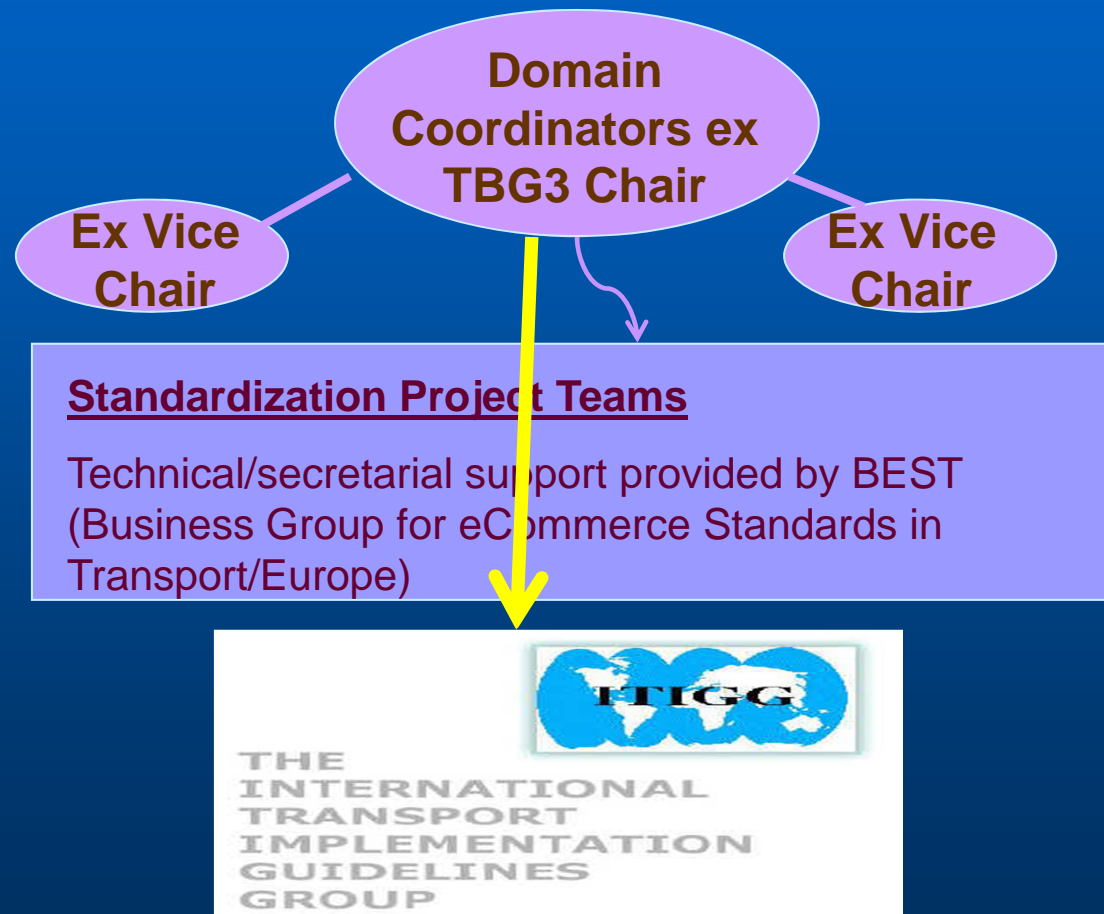
UN /CEFACT TRANSPORT

50 EDIFACT standard messages for Transport/Logistics among total 250

- *EDIFACT messages for Multimodal Freight - examples*
 - Transport Order - Bordereau groupage : IFTMIN – IFCSUM
 - Status report : IFTSTA
 - Transport Booking : IFTMBP/BF/BC
 - Manifest : IFCSUM (EDIMAN)
 - Transport contract (CMR, CIM, Bill of Lading, Air Way Bill..) : IFTMCS
 - Dangerous goods notification : IFTDGN
 - Containers mouvement, maritime and inland : CO....
 - Stowage plan (Bayplan) : BAPLIE
 - Berth management : BERMAN
 - Waste disposal : WASDIS
 - Logistics, cargo handling : HANMOV
 - Invoicing : IFTFCC – INVOIC
 - **Customs** : Manifest, declaration, response : CUSCAR, CUSDEC, CUSRES



CEFACT Transport / Logistics Domain





UNITED NATIONS

Interoperability : a key issue

5 layers/dimensions

Source: UN/CEFACT

Cooperating partners having compatible visions, and focusing on the same things.

Political Context

The appropriate synchronization of the legislation in the cooperating MS so that electronic data originating in any given MS is accorded to proper legal weight and recognition wherever it needs to be used in other MS.

Legal Interoperability

Legislative Alignment

The processes by which different organisations such as different public administrations collaborate to achieve their mutually beneficial, mutually agreed eGovernment service-related goals.

Organisational Interoperability

Organisation and Process Alignment

Ensuring that the precise meaning of exchanged information (concept, organisation, services, etc) is preserved and well-understood

Semantic Interoperability

Semantic Alignment

The technical issues involved in linking computer systems and services (open interfaces, interconnection services, data integration, middleware, data presentation and exchange, accessibility, and security services, ...)

Technical Interoperability

Syntax, Interaction & Transport



Creating A Single Global Electronic Market

International Consortium :

- UN / CEFACT
- OASIS Organisation for Advancement of Structured Information Standards (Internet world W3C)

Launched Sept 1999

Objective : develop specifications for XML exchange architecture

Standardisation roles split between:

- UN/CEFACT, : **semantic contents** data and business models **based on the considerable asset of EDIFACT**
- OASIS : technical infrastructure allowing to share registries / dictionaries

Other standardization committees Transport/Logistics

■ ISO (liaison with UN/CEFACT Transport)

- **TC 204** « Intelligent Transport Systems » -
 - WG7.1: data and messages for intermodal freight road-aircargo-road, EFM Electronic Freight Manifest (**focused on transport security**) - Governance of Electronic Freight Management
 - WG7.2 : data and messages for transportation of dangerous goods and emergency services
 - WG7.3: Freight conveyance content identification and communication architecture - Application profile **see example**
 - WG4.4: cooperative telematics applications for regulated commercial freight vehicles (TARV)

- **TC 104** Containers (identification, electronic seals..)

- **TC 8** Maritime in liaison with **IMO** International Maritime Organisation:
 - Security of the International Supply Chain
 - Electronic Port Clearance

■ **CEN** TC 278 Road Transport Traffic Telematics (RTTT), european counterpart of ISO TC 204

Norm@Fret : the French Standardization program

- Initiative of the French Ministry of Transport - Intelligent Transport Systems - and the Professional Federations from all modes of Transport. Support of the French Ministry of Industry
- Created 2004, administered by TTP /I-Trans World Class Industrial Transport Cluster (Pôles de Compétitivité Nord/ Pas de Calais/Picardie)
- Participation of Groups of road carriers , railways, aircargo, ports, maritime, inland waterways, shippers / distribution and Customs.
- Objectives:
 - Strengthen the participation in international standardisation instances UN/CEFACT, CEN and ISO - Chairmanship of UN/CEFACT Transport
 - Publish normative documents, implementation guidelines, reference guides of « good practices »...
 - Promotion, dissemination to enterprises (SMEs) and Users of standardized solutions for « intelligent freight» in the transport and logistics sector
- Support to the French Standardisation Committee of BNEVT (Bureau de Normalisation de l'Exploitation, de la Voirie et des Transports) in delegation by AFNOR



Usefull URL Links

- UN/CEFACT Secretariat
www.unece.org/cefact
- UN/CEFACT TBG3 Transport / Logistics Group
www.smdg.org/tbg_3
- ITIGG International Transport Implementation Guidelines Group
www.smdg.org/itigg
-  Norm@FRET French program on « Fleet Management and Commercial Freight Standardisation »
www.normafret.org

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Thanks for your attention

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