



# Cross Border Paperless Trade Reality or Fiction?

## UN/CEFACT Standards

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Chairman, UN/CEFACT Forum Management Group

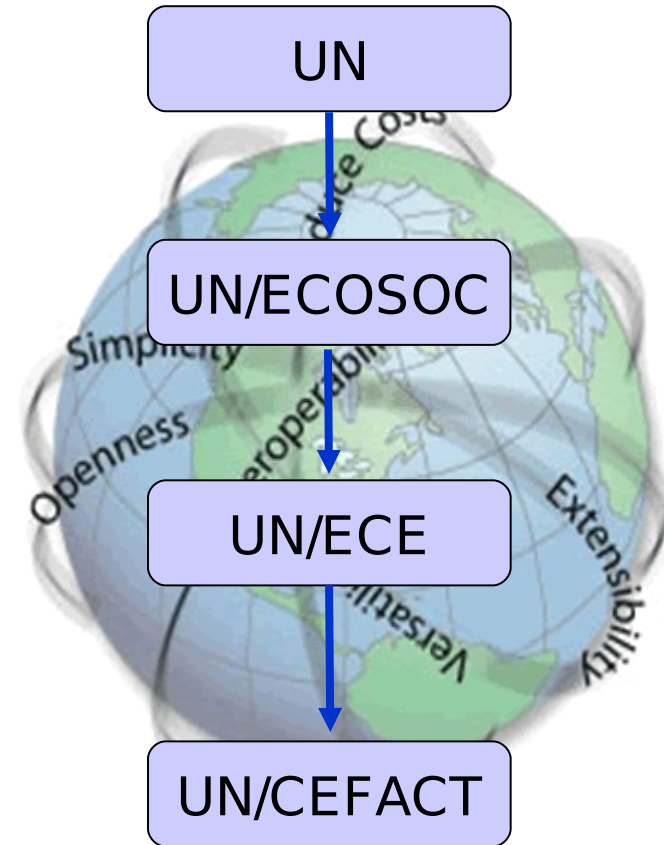


## AGENDA

- UN/CEFACT
- UN Layout Key (UNLK)
- UN Trade Data Element Directory (UNTDDED)
- UNEDIFACT
- ebXML
- UN/CEFACT & other Standards Organisations



**“UN Centre for Trade Facilitation and Electronic Business** *supports activities dedicated to improving the ability of business, trade and administrative organizations, from developed, developing and transitional economies, to exchange products and relevant services effectively.*”





### UN/CEFACT has a Global Mandate

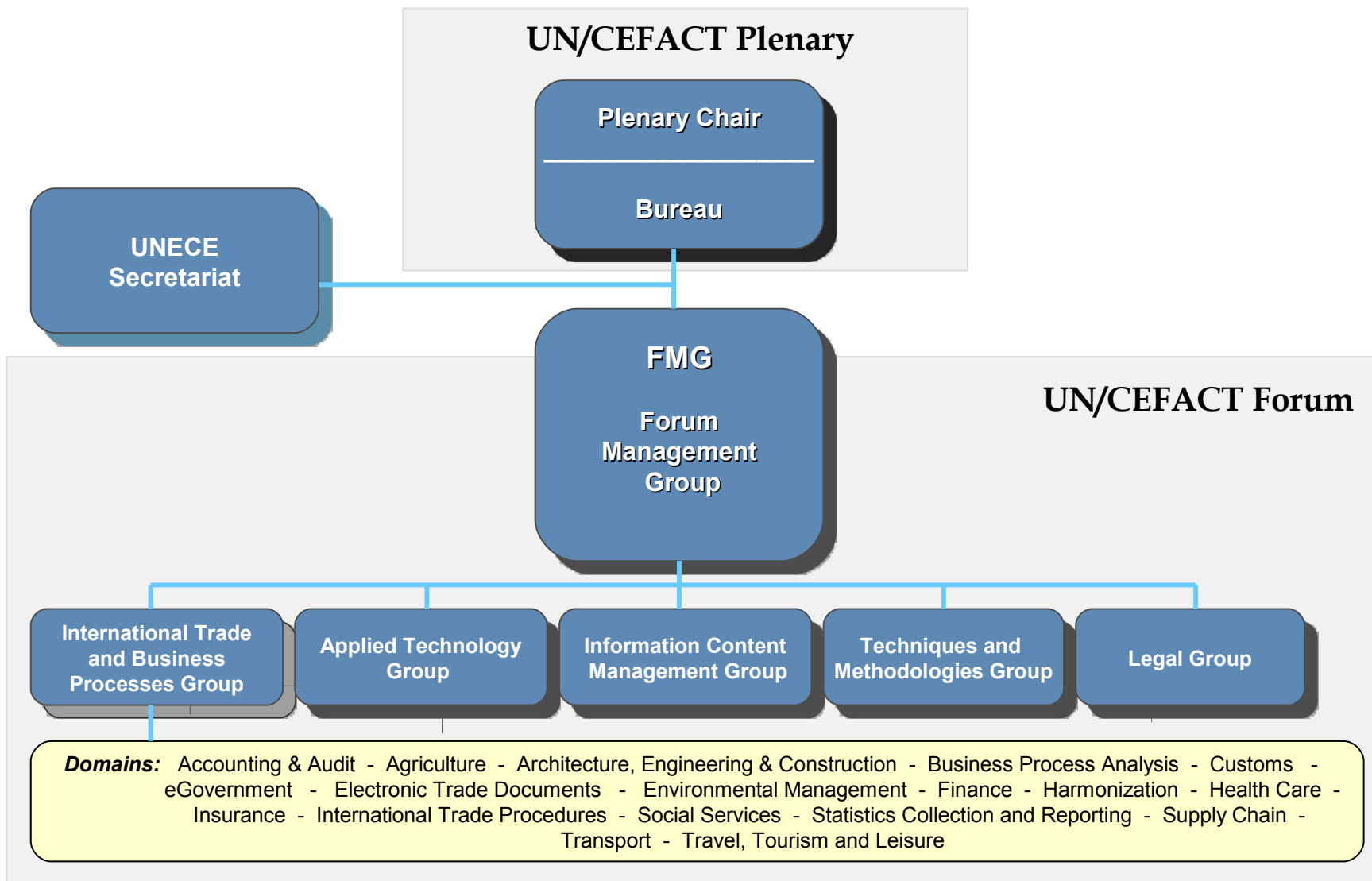
Participation in the UN/CEFACT Forum is open to all United Nations Member states. There are some 300 experts representing every region in the World

UN/CEFACT's Mission is to develop:  
Simple, Transparent & Effective Processes  
For Global Business, through the development of:

Trade Facilitation Recommendations &  
E-Business Standards



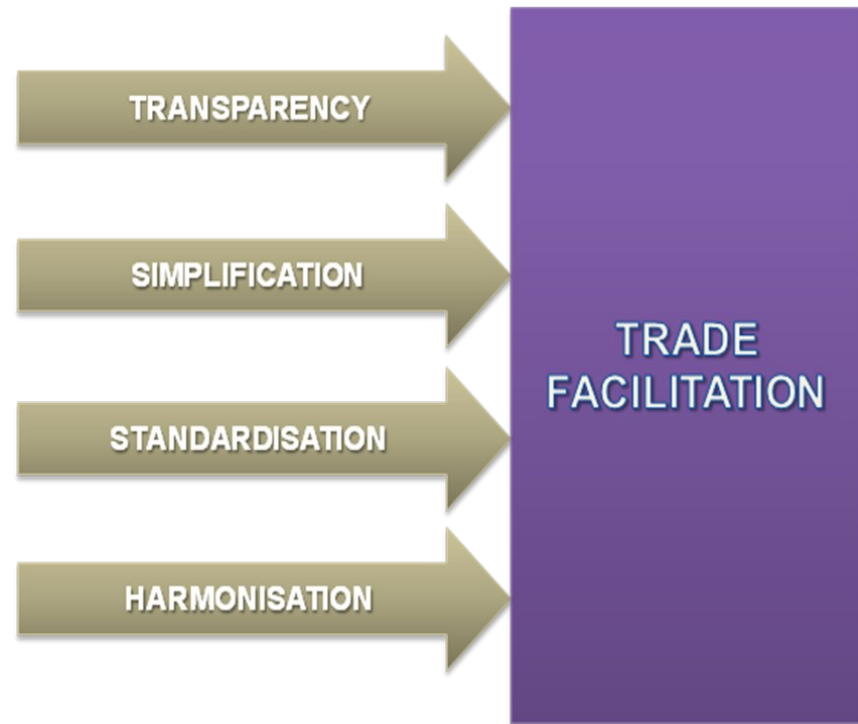
## Structure





### Trade bottlenecks :

- High transaction costs in trade
  - Many documents and signatures
  - Cumbersome procedures
- Need for reform and modernization of border agencies
- Lack of transparency
- Difficult to meet requirement of international standards
- Lack of trust between public and private sector
- Ports and border-crossings are bottlenecks
- Rent-seeking and corruption



Source: Swedish National Board of Trade (2009)  
Trade facilitation and maritime transport

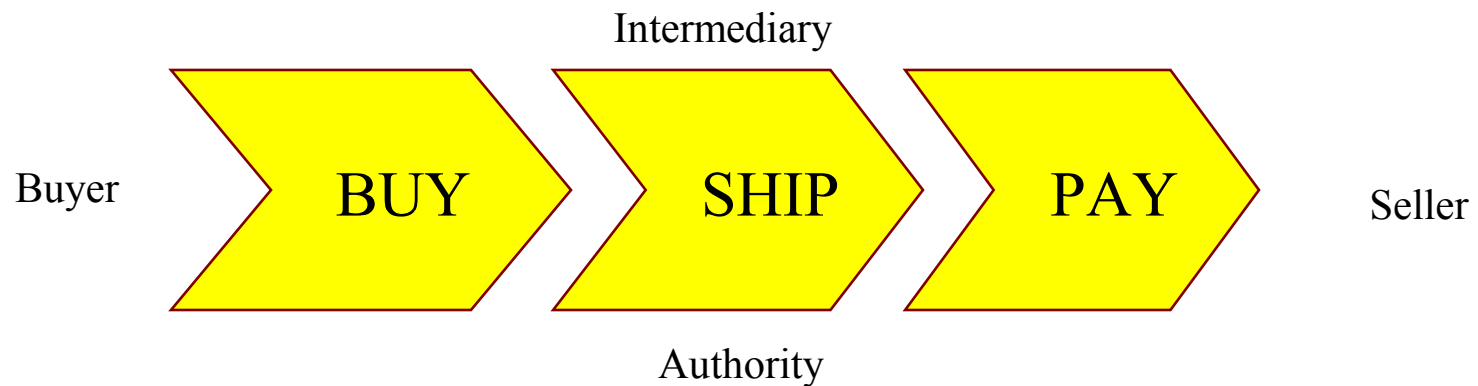


## Trade Facilitation Strategy

- UN/CEFACT takes a holistic approach to the International Trade Transaction Process
- Identifies ways to identify & eliminate regulatory & procedural barriers to trade through international best practices that cut red tape and reduce delays within and between countries & enhances predictability
- Develops Trade Facilitation Recommendations & eBusiness Standards
- Develops Capacity Building Programmes on trade facilitation implementation



## International Trade Transaction Process



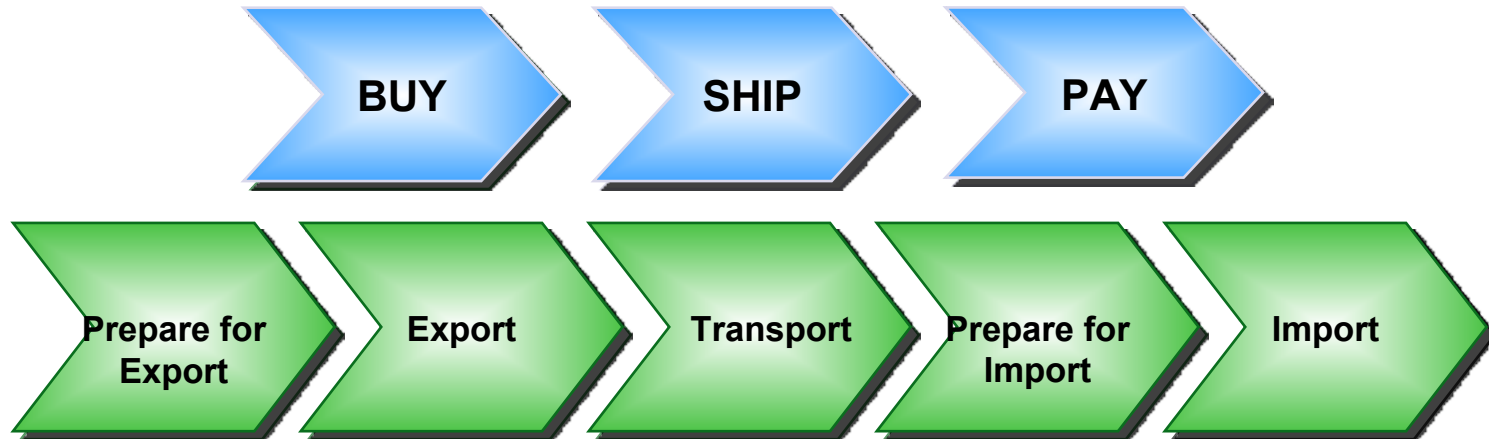
The International Trade Transaction Process consists of integrated & coordinated flows of information, goods & payments

Source: UN/CEFACT International Supply Chain Reference Model

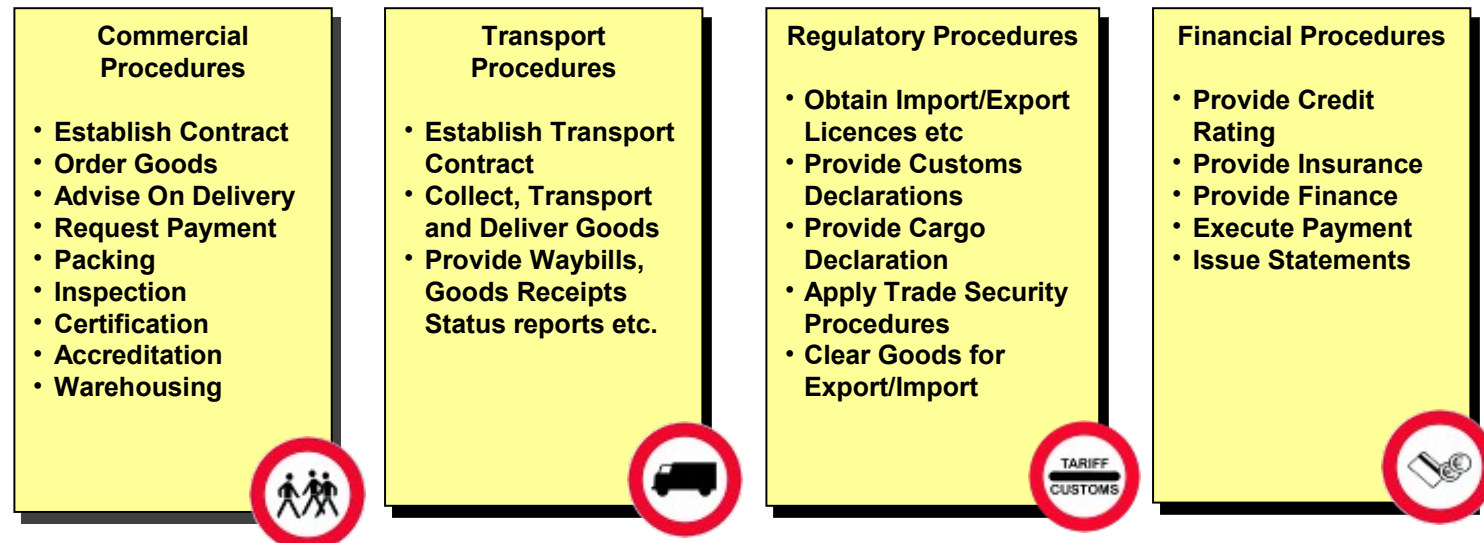




## International Trade Transaction Process



### INVOLVES





### Based on:

- Cross-**sectoral** analysis (to promote interoperability & supply chain synchronicity)
- Business process and information modeling (to capture **user** requirements, independent of any specific technology)
- New technologies as they emerge (e.g., eXtensible Markup language (XML), webServices,...)
- International standards for enabling e-business development
- Disseminating results in an efficient way



## eBusiness Standards Development

- Business Process Models
- Business Requirements Specifications-BRS
- Requirements Specification Mapping-RSM
- Core Component Technical Specifications
- Core Component Libraries
- Core Component Harmonisation
- Naming & Design Rules
- Schema Generation



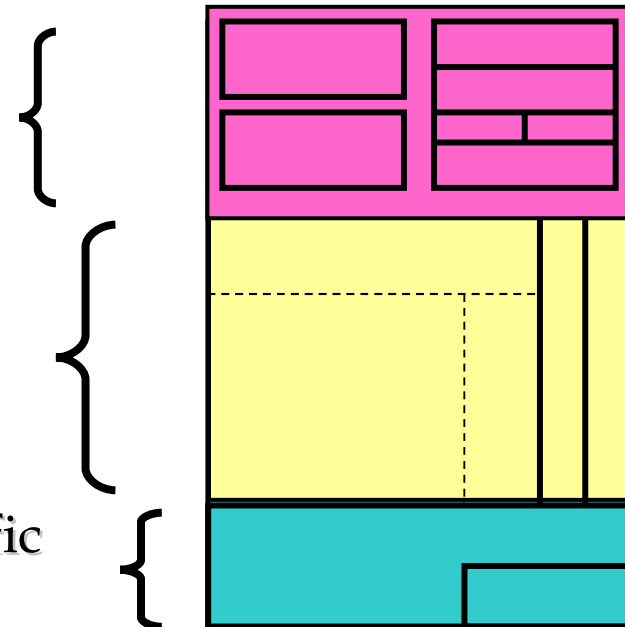
### UN Layout Key (UNLK)

**A standard and template for aligning international trade documents**

Cross-Sector Transaction Data  
(mainly business driven)

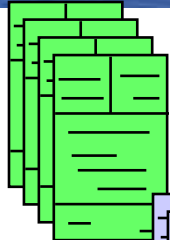
Sector Specific Detail  
goods items, order line items ...

Document Function Specific  
(Free Text Area)

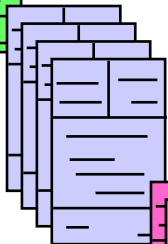




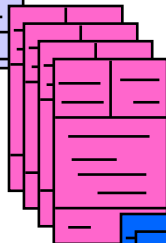
## UNLK Form Families



Trade Documents – Quotation, Order, Invoice etc.



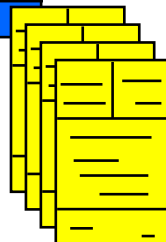
Materials Management Documents – Despatch Advice, Pick List, Packing List etc.



Transport Documents – Bill of Lading, Shipping Instructions etc.



Customs Documents – Export, Import, Transit Declarations, Cargo Reports etc.



Other Regulatory Documents – Cert of Origin, DGN etc.

Rec:19  
Mode of  
Transport

Rec:16  
UN/Locode

ISO Country  
Code

Rec: 17  
Payment  
Terms

at Professional - [UNSAID\_SAMPLE.pdf]  
 Document Tools Advanced Window  
 122%  
 Review & Comment Secure Sign Advanced Editing Select Text Save

EUROPEAN COMMUNITY  
 EXPORT CUSTOMS DECLARATION

|  |                |                                       |                                 |
|--|----------------|---------------------------------------|---------------------------------|
| 1 Consignor / Exporter   |                | 1 DECLARATION                         |                                 |
| 3 Forms  |                | 4 Loading lists                       |                                 |
| 5 Items  |                | 6 Total packages                      | 7 Reference number              |
| 9 Person responsible for financial settlement No                             |                |                                       |                                 |
| 10 Country first   |                | 11 Trading                            | 13 CAP                          |
| 14 Consignee / Representative No   |                | 15 Country of despatch / export       | 17 Country of final destination |
| 18 Identity and nationality of means of transport at departure               |                | 19 Ctr.                               | 20 Delivery terms               |
| 21 Identity and nationality of active means of transport crossing the border |                | 22 Currency and total amount invoiced |                                 |
| 25 Mode of transport   | 26 Inland mode | 27 Place of loading                   | 28 Financial and banking data   |
| 29 Office of exit  |                | 30 Location of goods                  |                                 |
| 31 Marks and numbers - Container No(s) - Numbers and kind                    |                | 32 Article No.                        | 33 Commodity code               |
|  |                | 34 Country origin code                | 35 Gross mass (kg)              |

Rec:9  
Currency Code

Commodity  
Code

Rec: 28  
Means of  
Transport

Rec: 21  
Package Codes

Rec:20 Units of  
Measurement



# Paper to Paperless

| Customer info                   |         | EXPORT CARGO SHIPPING INSTRUCTIONS   |                        |
|---------------------------------|---------|--|------------------------|
| <b>A</b> Exporter/shipper       | VAT no. | Booking number   | Customer reference no. |
| <b>B</b> Consignee              | VAT no. | Export reference   | Consignee reference    |
| <b>C</b> Freight forwarder      | VAT no. | If required, this space may be used for other addresses, e.g. freight agent of destination, delivery, additional contacts etc. |                        |
| Title/ID transmission data      |         | Country of origin of goods   |                        |
| Participation of shipping       |         | Country of final destination   |                        |
| Participation of discharge      |         | Place of receipt   |                        |
| Shipping marks container number |         | Number and total of packages   |                        |
|                                 |         | Description of goods   |                        |
|                                 |         | Quantity 1   |                        |
|                                 |         | Quantity 2   |                        |
|                                 |         | Quantity 3   |                        |
|                                 |         | Quantity 4   |                        |
|                                 |         | Quantity 5   |                        |
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|                                 |         | Quantity 99  |                        |
|                                 |         | Quantity 100   |                        |

## Electronic Document Exchange XML or UN/EDIFACT

```

<?xml version="1.0" encoding="UTF-8"?>
<n:Invoice
  xmlns:n="urn:oasis:names:tc:ubl:Invoice:1.0:0.70"
  xsi:schemaLocation="urn:oasis:names:tc:ubl:Invoice:1.0:0.70
  UBL_Library_0p70_Invoice.xsd">
  <cat:ID>token</cat:ID>
  <cat:IssueDate>2003-02-14</cat:IssueDate>
  <n:TaxPointDate>2003-02-14</n:TaxPointDate>
  <cat:BuyerParty>
    <cat:PartyName>
      <cat:Name>Bills
    </cat:PartyName>
  </cat:BuyerParty>
  <cat:SellerParty>
    <cat:ID>
      <cat:PartyName>
        <cat:Name>Joes Office
      </cat:PartyName>
    </cat:ID>
  </cat:SellerParty>
  <cat:InvoiceLine>
    <cat:ID>1</cat:ID>
    <cat:InvoicedQuantity>
      <cat:InvoicedQuantity>
        <cat:Item>
          <cat:Description>Pencils, box #2
        </cat:Description>
      </cat:Item>
    </cat:InvoicedQuantity>
  </cat:InvoiceLine>
</n:Invoice>
  
```

| FIATA Freight Forwarding Instructions  |  | DD version: 0.1.1 Form version: 0.4.3  |  |
|--|--|--|--|
| Consignee:<br>LV Logistics mbH<br>Bismarckstrasse 13<br>DE-D-69115 Heidelberg<br>Germany<br>ID: 363 / 0  |  | Consignor reference number:<br>DD-0599-22  |  |
| Consignee:<br>BB and Co<br>12 Rue de stand<br>FR-28000 Paris<br>France<br>ID: CO- 2 / 04794<br>Tax Ref: 505-646<br>Contact: Philippe Vuex M<br>TEL: +33450022154 |  | Freight forwarder:<br>Strasse Transport Limited<br>80 Rud de confederation<br>CH-8605 Zurich<br>Switzerland<br>ID: FIATA ER-2464/234 |  |
| Notify party:<br>Francis Wll<br>25, rue de la chamoine<br>FR-35689452 Annecy<br>France   |  | Country of origin:<br>Germany  | Documentary credit reference:<br>AET-10969<br>2003-10-20 |
| Goods ready for shipment:<br>Date: 2004-10-29  |  | Conditions of sale:<br>Cifs<br>Not applicable now  |  |
| Mode of transport:<br>Rail   |  | Transport insurance:<br>Covered by Consignee   |  |
| Place of destination:<br>FRPAR Paris   |  | Freight prepaid:<br>20.000   |  |
| Goods and numbers:<br>1 AQILMA Trading Cases<br>NR: 1-6 Order 0-535/1  |  | Description of goods:<br>Cylinder-Press Completely Assembled   |  |
|  |  | Commodity code:<br>31452224  | Gross weight:<br>325 KG                                  |
|  |  | Exhs:<br>350 MTQ   |  |

## Electronic Edit Form

## Paper Document aligned to UN Layout Key



# United Nations Trade Data Elements Directory International Standards Organisation ISO 7372

- Developed to provide a Directory to facilitate open interchange of data in international trade
- Standard data element names with description of meaning (data value) and a specification of character representation
- Supports and is fully consistent with Recommendation 1 - UN Layout Key for Trade Documents
- Fully consistent with UN/EDIFACT
- Multimodal & multisectoral
- Technology & syntax independent
- ebXML Core Components Technical Specification compliant





## CCL and TDED

### UNTDED – ISO 7372

| A          | B  | C   | D                 | E  |
|------------|--|---|-------------------|--|
| <b>UID</b> | <b>ISO7372 TDED Name</b>                   | <b>Definition</b>   | <b>TDED repr.</b> | <b>Locations, Bridges</b>  |
| 1          |  |   |                   |  |
| 2          | 1000 Document. Type Name.Text              | Free text name of a document such as 352 for Proforma invoice, 380 for Commercial invoice.  | an..35            | UNLK: L 02, P 45-80<br>MAR: IMO/FAL 1-7  |
| 3          | 1001 Document. Type.Code                   | Code specifying the name of a document such as 352 for Proforma invoice, 380 for Commercial invoice.  | an..3             | UNLK: L 04, P 41-45<br>CIMP: (120): a1<br>SAD: (SAD 1(first to third subdivision))   |
| 4          | 1099 Transport Means. Stay.Identifier      | Identifier of the stay of a means of transport in a port or airport   | an..35            |  |
| 5          | 4219 Transport Service. Priority.Code      | Code specifying the priority of a transport service.  | an..3             | CIMP: (704):a1   |
| 6          | 5068 Invoice. Line Item. Amount            | Total sum charged with respect to a single line item of an invoice.   | n..18             | UNLK: L 56, P 63-80  |
| 7          | 5070 Consignment. For Customs Total.Amount | Total amount for customs purposes of all goods in a consignment, whether or not they are subject to the same customs procedure, and have the same tariff/statistical heading, country information and duty regime | n..18             | AWB: L 24, P 71-81<br>CIMP: (509):n..12, or the letters 'NCV'  |
| 8          | 6094 Consolidation. Package.Quantity       | Count of the total number of packages in all of the consignments referred to as one consolidation.  | n..16             |  |
| 9          | 6292 Goods Item. Gross Weight.Measure      | Weight (mass) of goods including packaging but excluding the carrier's equipment.   | n..14             | AWB: L 33-44, P 13-19<br>CIM: L 28-33, P 63-74 (CIM 26)<br>CIMP: (600):n..7<br>CMR: L 28-42, P 63-71 (CMR 11)<br>SAD: (SAD 35)<br>UNLK: L 28-52, P 63-74 |
| 10         |  |   |                   |  |



## CCL and TDED

### UN Layout Mapping Example

The image shows a detailed view of the 'EXPORT CARGO SHIPPING INSTRUCTIONS' form. A red rectangular box highlights the 'Transport Means' field in section E, which contains the value 'an..17'. An orange arrow points from this box to the right, towards the mapping text.

**UID** 2280  
**Name** Transport Means. Actual Departure. Date  
**Definition** Time  
 Date and or time of the departure of means  
**Synonym** of transport  
**Repr.** Flight Date, Sailing Date  
**Mapping** an..17  
 UNLK. L 17, P 16



- UN/EDIFACT is UN/CEFACT's global standard for Electronic Data Exchange, EDI.
- First published in 1988 – invoice message
- Published twice a year – UN/EDIFACT Directories
- Backwards compatibility
- Currently 208 messages available
  - 193 batch messages
  - 15 interactive messages
- Most widely implemented international EDI standard



## Some of the Benefits

### UN/EDIFACT (ISO 9735)

- **Customs** (Source: EU-TAXUD):
  - 175 Million Customs Declarations per year
    - 480'000 per day
    - 333 per minute
    - 5.5 per second
- **Fiscal Declarations** (Source EDIFICAS, France):
  - 1987 - 100 companies
    - 2004 - 1 million companies
      - 92% of VAT collected using EDIFACT
      - 45% of revenues collected by the French Government
- **Benefit to the State** (Source EDIFICAS, France):
  - Euros 100M per year



## Some of the Benefits

### **UN/EDIFACT**

- **International Maritime Transport**
  - **Bayplan Loading Message**
    - 200 Million Messages per year
  - **Container Movements**
    - 100 Million container movements per year
  - **Dangerous Goods**
    - 80% by volume shipped using EDIFACT

(Source: UN/CEFACT Transport Working Group - TBG3)



## ebXML - Background

- 1999 UN/CEFACT and OASIS initiated ebXML
- ebXML is an extensive framework for next generation e-Business
- The result published as ISO Technical Specifications – 15000 series
- OASIS maintain the technical specifications: Message Service Specification (ebMS), Collaboration Protocol & Agreement Specification (ebCPPA), Registry)
- UN/CEFACT maintain the business related specifications: Core Component Technical Specification (CCTS), Unified Modelling Methodology (UN/CEFACT MMM)
- ebXML does **not** contain XML business payload



## UN/CEFACT's Core Components – Definition of reusable building blocks



- Semantic building blocks for the definition of business document data
  - Context free – reuse in multiple business sectors
  - Customization of generic core components to specific business sectors and application domains



## Reuse of building blocks



**Core Components**

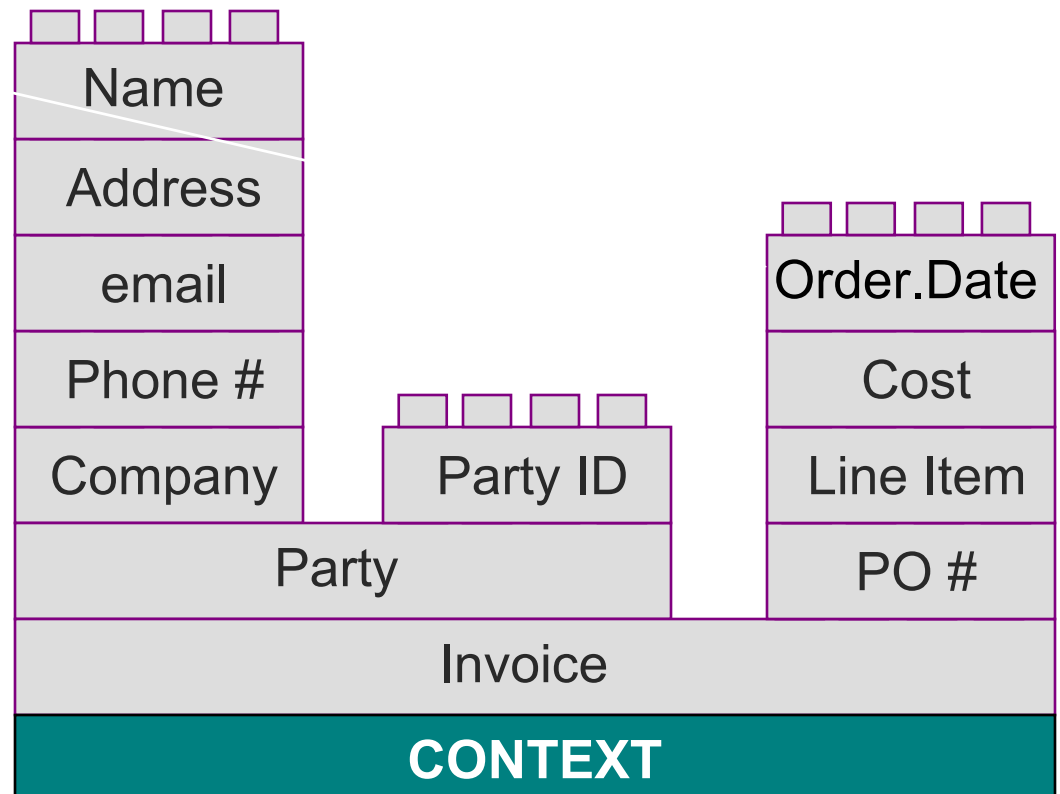
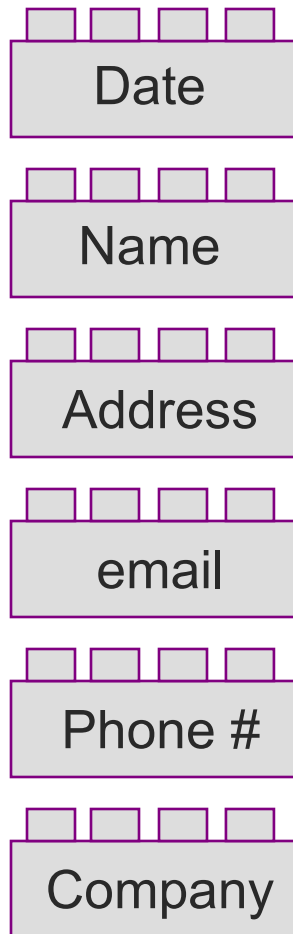


**Business document**



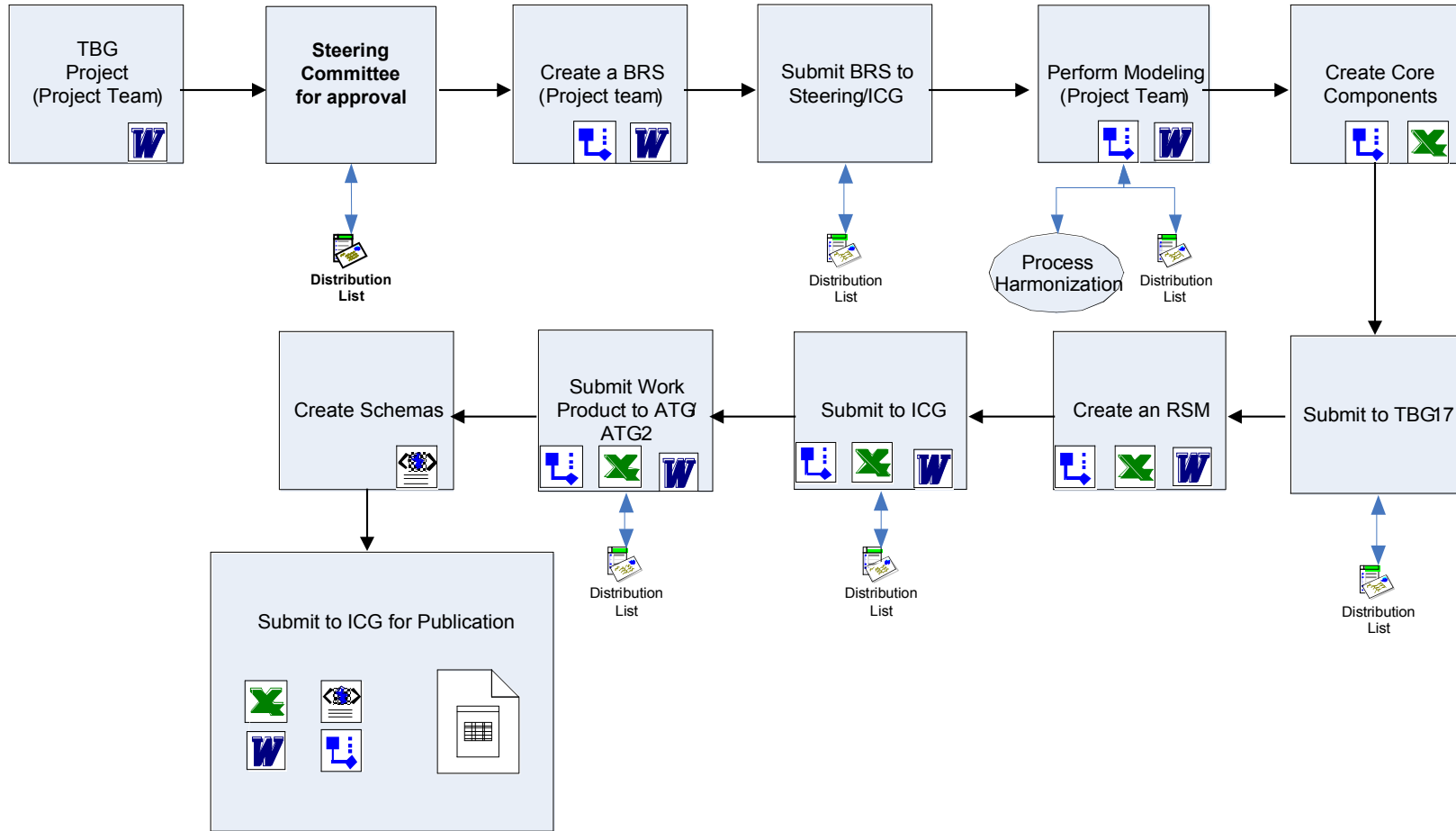


## Business Messages





## Process





# UN/CEFACT

United Nations Centre for Trade Facilitation and Electronic Business

# Confluence

UNECE - United Nations Economic Commission for Europe - Windows Internet Explorer

http://www.unece.org/cefact/

File Edit View Favorites Tools Help

★ Favorites ☆ Stuga att hyra i Köpingsvik Stuga att hyra i Byxelkrok (2) Stuga att hyra i Byxelkrok Mappy - plans, itinéraires, g... Pays Royannais - Fiche meu... WP 1 — PEPPOL (2) Suggested Sites

UNECE - United Nations Economic Commission for Eur...

UNECE United Nations Economic Commission for Europe

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**UN/CEFACT**

- About us
- Organization
- Recommendations
- Standards
- Technical Specifications
- Codes for Trade
- Projects**
  - ATG Projects
  - TBG Projects
  - TMG Projects
- Meetings and Events
- Publications
- National Trade Facilitation Bodies
- Committee on Trade (CT)
- Trade home page
- Official Document System of the United Nations (ODS Search)

United Nations Centre for Trade Facilitation and Electronic Business

**UN/CEFACT**

SIMPLE, TRANSPARENT AND EFFECTIVE PROCESSES FOR GLOBAL BUSINESS

English [French] [Russian]

News

2010

**20 August:** Revision 8.1 of the code lists for UNECE Recommendation 21 (Codes for passengers, types of cargo, packages and packaging materials), Annex V and Annex VI (Coded representations of package type names) has been released by the ICG to correct a code value assignment error in Revision 8.

**11 August 2010:** Draft recommendation 35 (English, French and Russian) has been submitted to the Heads of Delegation for intersessional approval by **8 October 2010**.

Events

**30 August - 3 September 2010:** [The 17<sup>th</sup> UN/CEFACT Forum](#) will be held in Geneva at the Centre International de Conférences Genève (CICG) or International Conference Centre, 17 rue de Varembe, CH 1211 Genève 20, Switzerland.

[Site Map](#)

[Practical information for Delegates](#)

Adobe Acrobat Reader

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## Confluence

TBG1 - Confluence - Windows Internet Explorer

http://www1.unece.org/cefact/platform/display/TBG/TBG1

http://www.uncefactrome.ic... TBG1 - Confluence

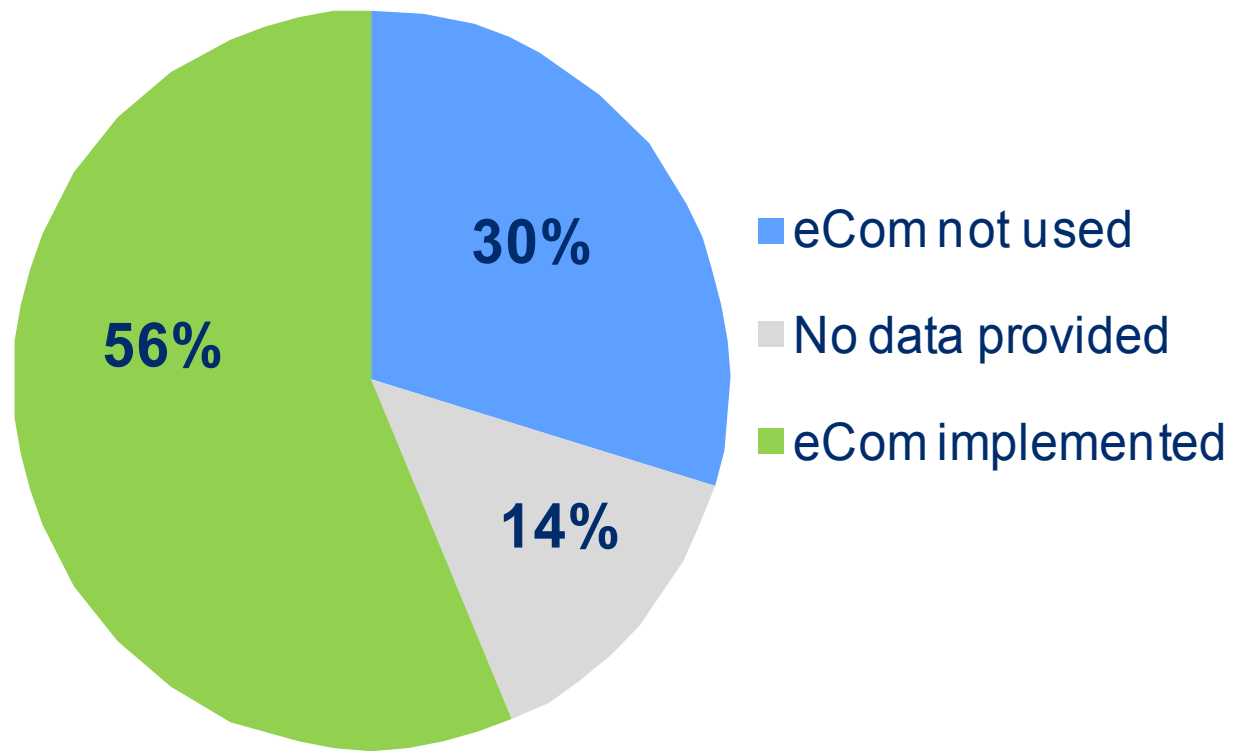
| Project Number       | Project Name  | Project Chair                     | Project Initiator | Supporters | Extra Budgetary Resources     | Start Date | End Date   | ODP 1 | ODP 2 | ODP 3 | ODP 4 | ODP 5 | ODP 6 | ODP 7 | ODP 8 | Aim of |  |
|----------------------|---|-----------------------------------|-------------------|------------|-------------------------------|------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| <a href="#">P043</a> | Cross Industry Invoice V2.0 + V2.1  | <a href="#">Klaus Foerderer</a>   |                   | ✓          | v2.0 9A finalized<br>v2.1 09B |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠      |  |
| <a href="#">P016</a> | Cross Industry Catalogue  | <a href="#">Karina Duvinger</a>   |                   | ✓          | v1 09B v2 10A                 |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P042</a> | Material Safety Data Sheet  | <a href="#">Delta Pelgrim</a>     |                   | ✓          | v1 08B                        | 15.02.2003 |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P047</a> | Cross Industry Remittance Advice  | <a href="#">Mounir El-Khoury</a>  |                   | ✓          | v1 10A                        |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P054</a> | Simple Cross Industry Invoice   | <a href="#">Gilles Brandel</a>    |                   | ✓          |                               |            | 31.03.2009 | ✓     | ✓     |       |       |       |       |       |       |        |  |
| <a href="#">P052</a> | Cross Industry Ordering   | <a href="#">Martin Forsberg</a>   |                   | ✓          | v1 09B                        |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P067</a> | Cross Industry Scheduling   | <a href="#">Samy Scemama</a>      |                   | ✓          | v1 10A                        |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P068</a> | Cross Industry Delivery   | <a href="#">Edmund Grav</a>       |                   | ✓          | v1 09B                        |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P069</a> | Cross Industry Order Status   | <a href="#">Coen Janssen</a>      |                   | ✓          |                               |            |            | ✓     | ✓     | ⚠     |       |       |       |       |       |        |  |
| <a href="#">P070</a> | Market Research Information   | <a href="#">Helge G. Simonsen</a> |                   | ✓          | v1 09B                        | 01.10.2006 |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P084</a> | Cross Industry Quotation  | <a href="#">Gilles Brandel</a>    |                   | ✓          | v1 10A                        | 15.01.2010 |            | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |       |       |        |  |
| <a href="#">P087</a> | Globally Harmonized System of Classification and Labelling of Chemicals (GHS) | <a href="#">Delta Pelgrim</a>     |                   | ✓          |                               | 01.11.2009 |            | ✓     | ✓     | ✓     | ⚠     |       |       |       |       |        |  |
| <a href="#">P088</a> | Supply Chain Process - Common Requirements                                    | <a href="#">Coen Janssen</a>      |                   | ✓          |                               |            |            | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ✓     | ⚠     |        |  |

Internet 100%



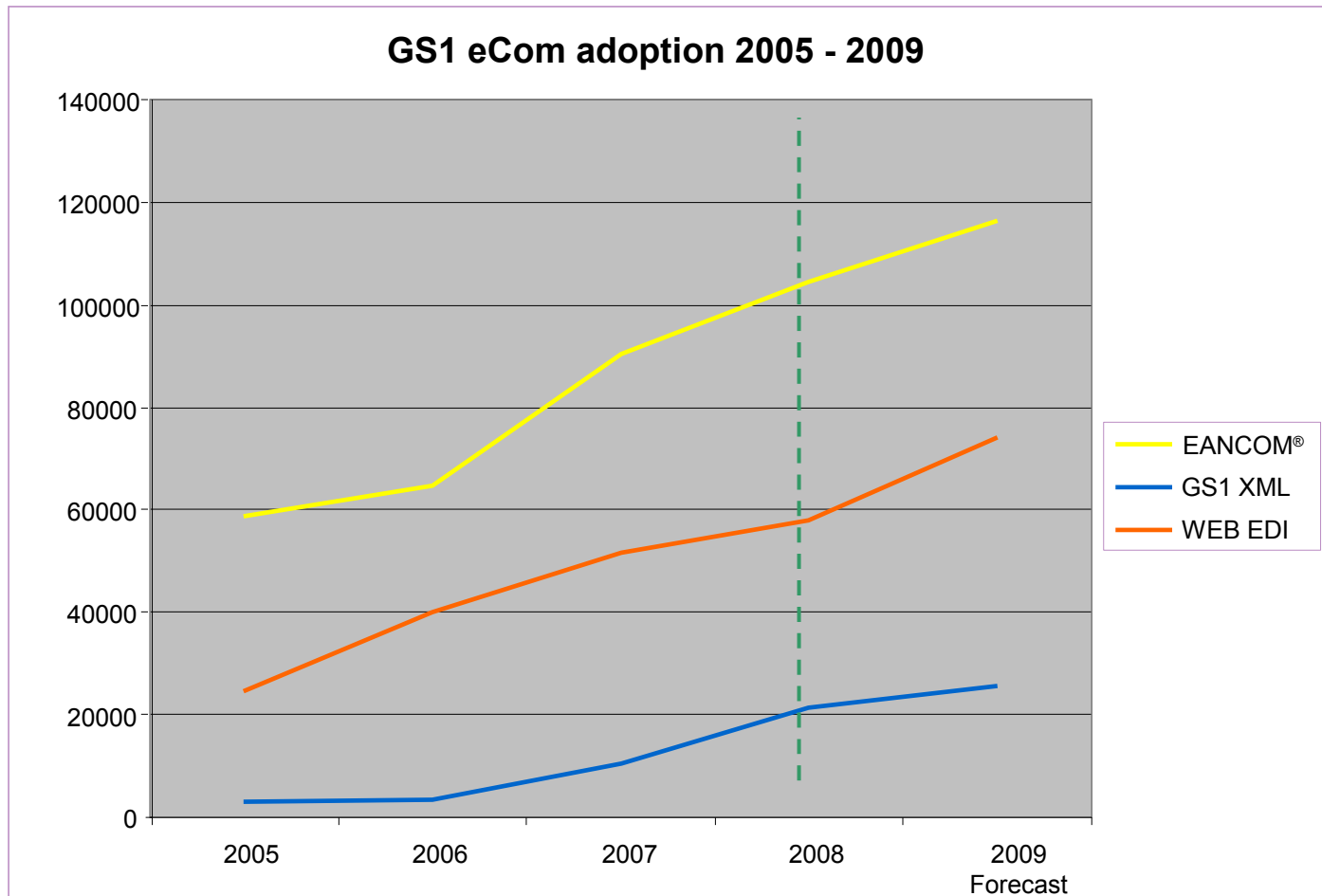
# GS1 Implementation Survey 2010

## eCom adoption in 108 GS1 member countries



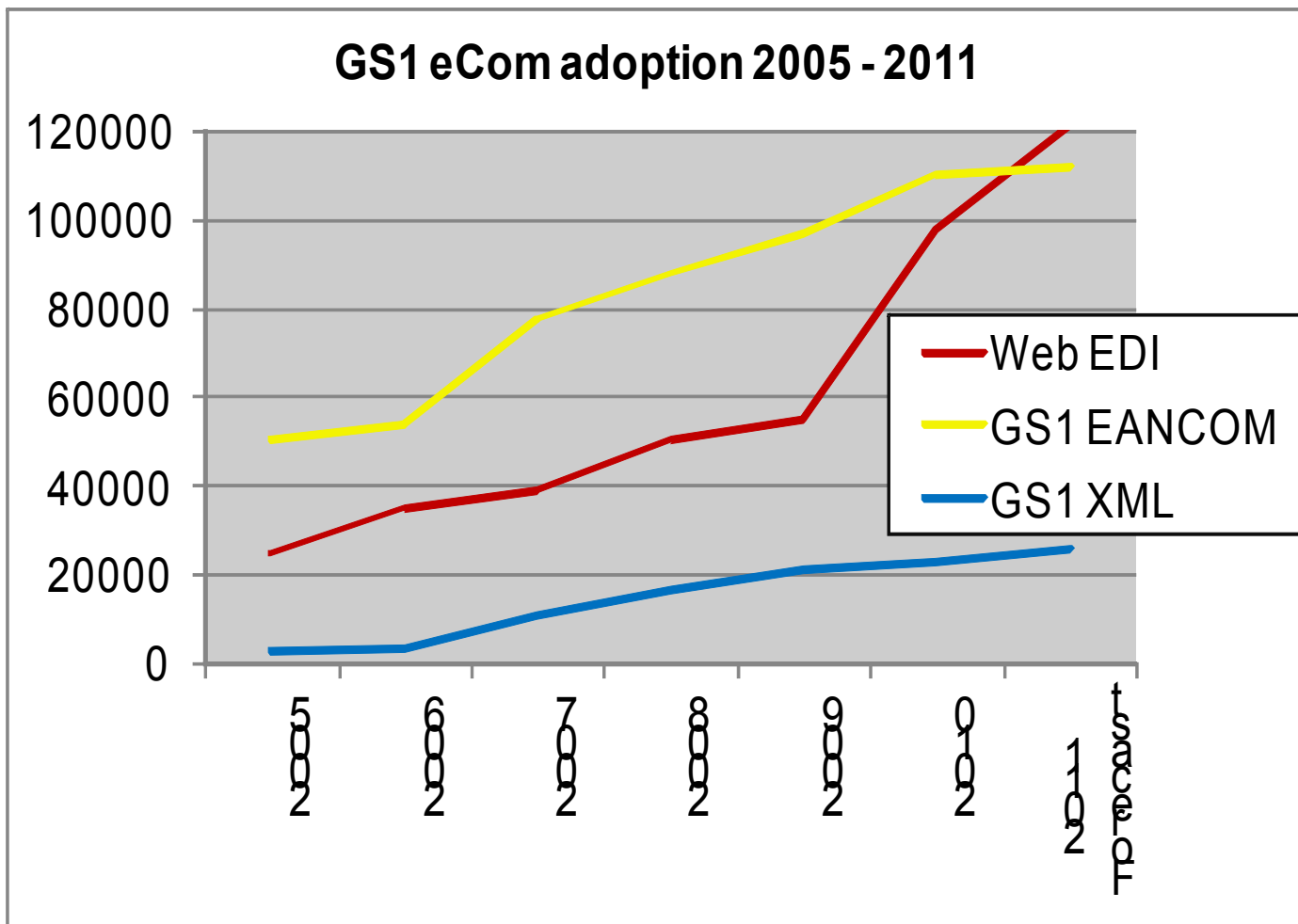


## UN/EDIFACT - XML Adoption





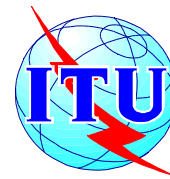
## UN/EDIFACT - XML Adoption





### Formal Memorandum of Understanding (MoU) Commits participants to:

- Avoid divergent and conflicting approaches to standardization
- Eliminate duplication of effort
- Provide a clear roadmap for users
- Ensure intersectoral coherence in the field of electronic business







## THE WAY FORWARD

- Compelling demand from stakeholders (governments, businesses, standards development organizations) for bringing together an end-to-end global core of recommendations & standards for:
  - Trade Facilitation implementation
  - e-business, e-government and e-trade
- Standards that are open, interoperable and freely available. Robust, scalable, and maintained over time. Available in both paper & electronic formats, avoids re-working & implementable by SMEs in developing, transition & developed economies alike.
- UN/CEFACT aims at reducing complexity and costs whilst increasing predictability in national & international trade processes & procedures, as well as in non-trade areas eg: healthcare.



**UN/CEFACT Forums take place bi-annually in different regions of the world where experts can interact face-to-face in Trade Facilitation and eBusiness standards development. The host countries can benefit from special capacity building events focused on their priorities. Some recent meetings have been held in:**

- 2005 - Seoul (Korea) & Lyon (France)
- 2006 - Vancouver (Canada) & New Delhi (India)
- 2007 - Dublin (Ireland) & Stockholm (Sweden)
- 2008 - Mexico City (Mexico) & Saly (Senegal)
- 2009 - Rome (Italy) & Sapporo (Japan)
- 2010 - Geneva (Switzerland)
- 2011 - McLean (USA) & Geneva (Switzerland)
- 2012 - India & Vienna (Austria)



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



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