What standards for eCommerce?

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e-Commerce: definition

- online-initiation of a cross-border transaction with seller;
- online payment;
- cross-border logistics;
- delivered to consumers (buyers) both commercial and non-commercial

Diverging definitions on what is e-Commerce:

- UNCTAD & WTO definition potentially includes all electronic transactions as e-Commerce
- UN/CEFACT & WCO definition limits the scope to transactions which are initiated online
Process of e-Commerce
Example of choreography of exchanges

1. Party orders from an online platform
2. Party requests a payment online
3. Financial institute confirms payment
4. Platform requests shipment from warehouse
5. Warehouse provides delivery instructions
6. Agent performs clearance processes
7. Product is delivered to party who ordered it
Business need for international standards
e-Commerce and e-Business

International Logistics and Border Management

Shipment delivered to Buyer
e-Commerce and e-Business

• Traditional e-Business transactions are either full container loads OR they are regrouped with other consignments and presented as a full container load to regulatory authorities at each border crossing

• e-Commerce has resulted in an explosion of small parcels being shipped separately.
  • Increase in volume
  • Often a decrease in value
Which standards could be beneficial -1?

The initial e-Commerce transaction

The Direct Trader Input (DTI) initiation of the transaction is conducted via an online website platform:

- There could be benefits to suggesting harmonization of portals
- Ultimately this is a B2B and marketing issue

Online Payment:

- Security standards and protocols are necessary
Which standards could be beneficial -2?

The resulting e-Business transactions

• Instructions provided to warehouses
  • B2B transaction, using traditional e-Business standards

• Instructions provided to transport companies
  • B2B transaction, using traditional e-Business standards

• Transfer of information from platforms to agents for regulatory purposes
  • B2B transaction, using traditional e-Business standards
Which standards could be beneficial -3?

Regulatory declarations from agent to government agency (agencies)

- Must comply with national regulations (different from country to country)
- May involve a number of different agencies
  - Customs
  - Border Security
  - Health and Safety
  - Agriculture
  - etc.
UN/CEFACT International Semantic Standards
UN/CEFACT Semantic Hub Benefits

- Standardized data exchange syntax-neutral structures, based on common Master data exchange structure
- The support of information sharing, such as enabled by data pipelines, with the timely capture of quality data from original data sources ensuring supply chain visibility
- Reduction of administrative burden by efficient reuse of data shared within the BUY SHIP PAY domain model
- Common basis for implementing in chosen data exchange syntax(es)
UN/CEFACT Semantic Instruments

- Core Component Library (CCL)
- Reference Data Models (RDM)
- Business Requirement Specifications (BRS)
- Core Component Document Assembly (CCBDA)
- Code Lists (UN Recommendations and UN/EDIFACT)
- UN/EDIFACT (syntax)
- UN/XML (syntax)
UN/CEFACT Process-driven approach

Semantic Evolution/Revolution

• From Document centric to Process driven artefacts
  *(Contextualized Business Artefacts)*

• Supports Document centric & Process driven workflows

• Standardized syntax-neutral data exchange structures, based on common Master data exchange structure
  *(from which complete documents and/or snippets of documents can be created in any chosen syntax e.g. XML, JSON or UN/EDIFACT etc.)*
International Supply Chain Model

**Commercial Procedures**
- Establish Contract
- Order Goods
- Advise On Delivery
- Request Payment
- Packing
- Inspection
- Certification
- Accreditation
- Warehousing

**Transport Procedures**
- Establish Transport Contract
- Collect, Transport and Deliver Goods
- Provide Waybills, Goods Receipts Status reports etc.

**Regulatory Procedures**
- Obtain Import/Export Licences etc
- Provide Customs Declarations
- Provide Cargo Declaration
- Apply Trade Security Procedures
- Clear Goods for Export/Import

**Financial Procedures**
- Provide Credit Rating
- Provide Insurance
- Provide Finance
- Execute Payment
- Issue Statements

INVOLVES

BUY

SHIP

PAY
Thank you

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