



Cargo-XML Standards

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Agenda

1. *IATA EDI Strategy*
2. *Cargo-XML Task Force*
3. *Approach for Cargo-XML Messages*
4. *Cargo-XML Messages Status*
5. *Why Cargo-XML*
 - a. *Cargo-XML Benefits*
 - b. *Differences between CXML and CIMP*
6. *CXML Recommendation Paper*
7. *CXML Scorecard*
8. *CXML Manual and Toolkit 1st Edition*



What is Cargo-EDI Strategy



IATA Cargo-EDI Strategy

- The Cargo Committee (CC) endorsed XML as the strategic direction for air cargo industry electronic messaging.
- The Cargo Services and Agency Conferences endorsed Cargo XML as the alternative to Cargo-IMP.
- The sunset of Cargo-IMP Manual is foreseen end of 2014
 - No more editions of Cargo-IMP Manual after 2014.
 - New upgrades only in equivalent Cargo-XML Messages.





Cargo-XML Task Force



Cargo-XML Task Force (1/4)

Objective:

- The objective of the Cargo-XML Task Force (CXMLTF) is to recommend the XML requirements for new messages and existing core Cargo Interchange Message Procedures (CIMP) messages
- In order to develop cross-border and multi-modal standards Task Force recommends the business data elements based on the UN/CEFACT Standards



Cargo-XML Task Force (2/4)

Members:

- CXMLTF comprises of variety of stakeholders including:
 1. Shippers
 2. Freight Forwards
 3. Carriers
 4. Ground Handling Agents
 5. Customs Brokers/Agent
 6. International and National Organizations
 7. IT Service Providers (as Observers)

- Membership of the Task Force include a maximum of 25.
- CXMLTF web presence at: www.iata.org/Cargo-XML

Cargo-XML Task Force (3/4)

Member Airlines



Other Members



Cargo-XML Task Force (4/4)

➤ IT Service Providers attend CXMLTF Meetings/Conf Calls as observers.

Observers

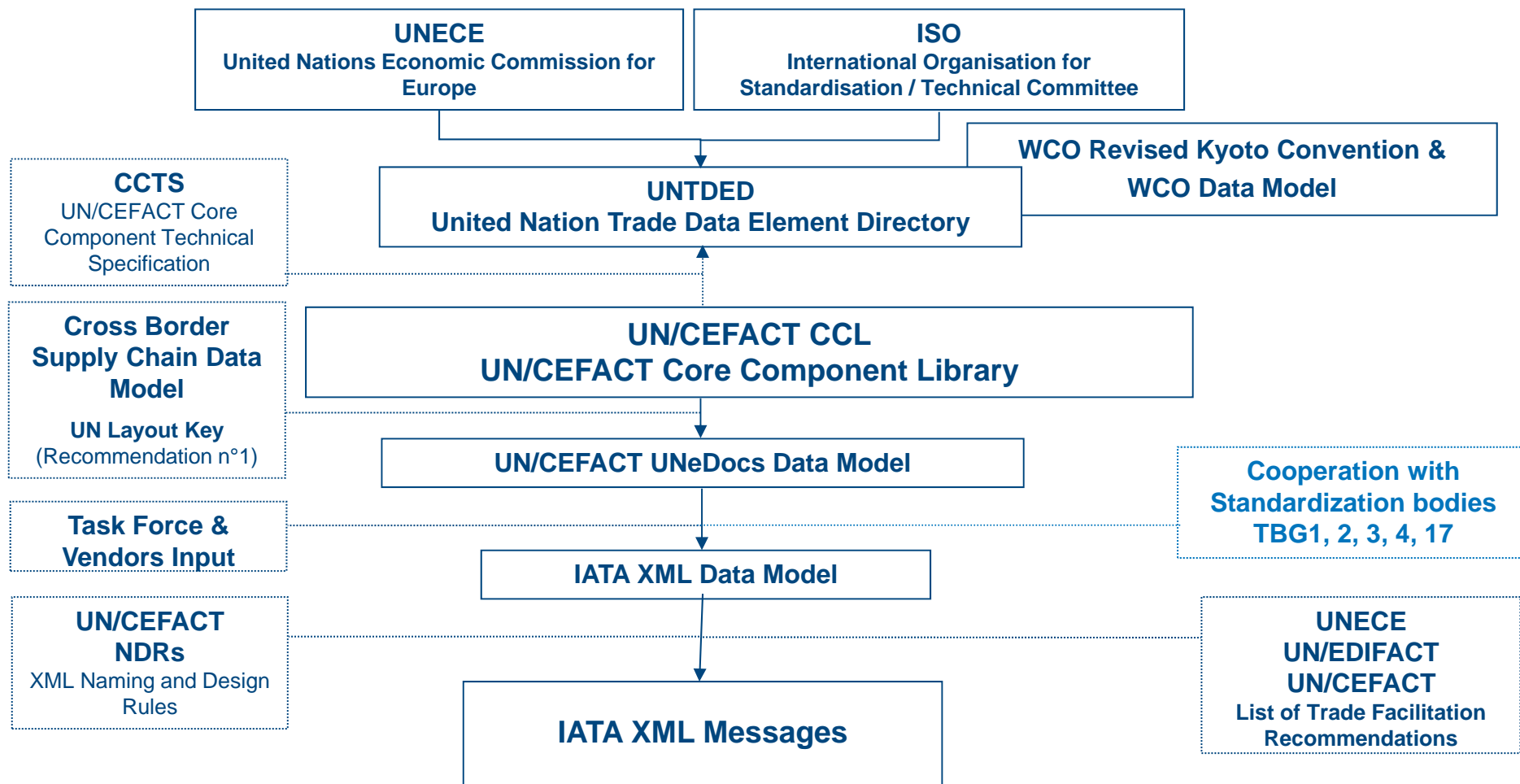


What is the approach to recommend CXML standards?





CXMLTF – Approach to recommend new standards





CXML Messages Status



CXML Messages Status

- IATA published Cargo-XML Manual and Toolkit (1st Edition) in Dec 2012.
- It contains following 14 Cargo-XML Messages

Transport Messages	Acronym	Commercial Messages	Acronym
<i>XML Waybill</i>	<i>XFWB</i>	<i>XML Shippers Declaration for Dangerous Goods</i>	<i>XSDG</i>
<i>XML House Waybill</i>	<i>XFZB</i>	<i>XML Invoice</i>	<i>XINV</i>
<i>XML House Manifest</i>	<i>XFHL</i>	<i>XML Packing List</i>	<i>XPCL</i>
<i>XML Flight Manifest</i>	<i>XFFM</i>	<i>XML Certificate of Origin</i>	<i>XCOO</i>
<i>XML Freight Booked List</i>	<i>XFBL</i>	<i>XML Shippers Letter of Instruction</i>	<i>XSLI</i>
<i>XML Status Message</i>	<i>XFSU</i>		
<i>XML Response Message</i>	<i>XFNM</i>		
<i>XML Booking Message</i>	<i>XFFR</i>		
<i>XML Custom Status Notification</i>	<i>XCSN</i>		

Note: IATA also developed CITES permit and Transit Declaration in conjunction with respective organizations i.e. Convention on International Trade in Endangered Species (CITES) and World Customs Organization (WCO)

For further details about Cargo-XML standards. Please visit <http://www.iata.org/cxmltf>

Why XML?





CXML Benefits

- Reduced cost of development, transmission, maintenance and support
- Quicker response to the changing requirements
- Extended facilitation in implementing e-AWB, e-Freight and Advance Electronic Information
- Broader participation in e-commerce by small and medium size businesses
- Improved availability of required business information for all parties involved
- Facilitate direct exchange of data
- Ease of implementation
- Universally used and accepted standard
- Compatible with other industry standards e.g. World Customs Organization (WCO), International Standards Organization (ISO) etc.



Differences between CXML and CIMP

Features	CIMP	CXML
Character Set	<i>Limited (ASCII 7 bit)</i>	<i>Extended (UTF -8)</i>
Size	<i>Limited</i>	<i>Extended</i>
Field/Line	<i>65 characters</i>	<i>unlimited</i>
Message	<i>3500 characters</i>	<i>unlimited</i>
Occurrences	<i>Limited</i>	<i>Unlimited</i>
Message Structure	<i>Constraints</i>	<i>Flexible</i>
Data Type	<i>Limited</i>	<i>Extended</i>
Communication Medium	<i>Private Network</i>	<i>Public - Internet based</i>
Data Quality	<i>Modest</i>	<i>Improved</i>
Platform Dependent	<i>Yes</i>	<i>No</i>
Error Handling	<i>Cumbersome</i>	<i>Improved</i>
Data Validation	<i>No</i>	<i>Yes (XSD)</i>
Multimodal	<i>No</i>	<i>Yes</i>
Cross-border	<i>No</i>	<i>Yes</i>

CXML Recommendation Paper





CXML Recommendation Paper

- It is recommended to use standard IATA Cargo-XML to exchange electronic information along the air freight supply chain as the alternative to IATA Standard Cargo-IMP.
- It is recommended to use IATA Cargo-XML as it facilitates the implementation and adoption of the e-Cargo initiatives such as the electronic Air Waybill (e-AWB) or e-Freight.



XML
Recommendation

For further details about Cargo-XML standards. Please visit <http://www.iata.org/cxmltf>



CXML Scorecard



CXML Scorecards

- IATA is maintaining CXML scorecards for the different industry groups including CC/CSC/CBPP/CXMLTF/CDITF/VAG
- These scorecards are available at www.iata.org/cargo-xml



CC Committee
Scorecard for XML



CXML Manual and Toolkit

1st Edition

www.iata.org/cargoxml-toolkit



CXML Manual & Toolkit 1st Edition (1/4)

Features:

- CXML Manual and Toolkit 1st Edition published in Dec 2012.
- Prominent features include:
 1. Feature#1 – Introduction: Introduction, Approach, Governance Process etc.
 2. Feature #2 – Business Rules: Business Data, Description, Equivalent CXML Element, Data Type etc.
 3. Feature #3 – Mapping: Mapping between CXML and CIMP data element (as in Excel Sheets)
 4. Feature #4 – CXML Schemas: Actual Schemas for the CXML Messages
 5. Feature #5 – Support/FAQS: FAQs section
 6. Feature #6 – User Capabilities: User Capabilities for CIMP and CXML Messages
 7. Feature #7 –Layouts and Examples: Layouts and Examples
 8. Feature #8 – Updates: Updated CXML Messages and Schemas
 9. Feature #9 – Supporting Documents: CXML Recommendation Paper, OCI Table etc.
 10. Feature #10 – Cargo-IMP Manual: Cargo-IMP Manual 31st Edition in pdf format, CIMP Code Lists



CXML Manual – 1st Edition (2/4)

Graphical User Interface:

Introduction **Cargo XML** User Capabilities Cargo IMP Downloads FAQ Support

XML Waybill Message (XFWB)

Specs Table Layout Layout Example Download Schema

```
<rsm:Waybill>
  <rsm:MessageHeaderDocument>
    <ram:ID>XXXXXXXXXX</ram:ID>
    <ram:Name>XXXXXXXXXX</ram:Name>
    <ram:TypeCode>XXX</ram:TypeCode>
    <ram:IssueDateTime>2002-07-01T05:10:10</ram:IssueDateTime>
    <ram:PurposeCode>XXXXXXXXXX</ram:PurposeCode>
    <ram:VersionID>XXXXXXXXXX</ram:VersionID>
    <ram:ConversationID>XXXXXXXXXX</ram:ConversationID>
    <ram:SenderParty>
      <ram:PrimaryID schemeID="1">XXXXXXXXXX</ram:PrimaryID>
    </ram:SenderParty>
    <ram:RecipientParty>
      <ram:PrimaryID schemeID="1">XXXXXXXXXX</ram:PrimaryID>
    </ram:RecipientParty>
  </rsm:MessageHeaderDocument>
  <rsm:BusinessHeaderDocument>
    <ram:ID>XXXXXXXXXX</ram:ID>
    <ram:SenderAssignedID>XXXXXXXXXX</ram:SenderAssignedID>
    <ram:IncludedHeaderNote>
      <ram:ContentCode>XXXXXXXXXX</ram:ContentCode>
      <ram:Content>XXXXXXXXXX</ram:Content>
    </ram:IncludedHeaderNote>
    <ram:Signatory>
      <ram:Signatory>XXXXXXXXXX</ram:Signatory>
    </ram:Signatory>
    <ram:SignatoryCarrierAuthentication>
  </ram:SignatoryCarrierAuthentication>
</rsm:Waybill>
```

XML Waybill Message XFWB

MESSAGE DEFINITION

CIMP: To transmit a complete set of Air Waybill data in accordance with the IATA Cargo Services Conference Resolutions Manual

UN/CEFACT: Document/message made out by or on behalf of the shipper which evidences the contract between the shipper and carrier(s) for carriage of goods over routes of the carrier(s) and which is identified by the airline prefix issuing the document plus a serial

Message History

Cargo IMP Acronym Reference: FWB

MESSAGE HEADER

Mandatory	Occurrence: 1:1
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Message Type

Mandatory	Occurrence: 1:1	Data Type: AN
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Description: Contains the Type of referenced document. UN/EDIFACT 1001 Document/message, code list can be used (e.g.740 for Air Waybill, 703 for House Waybill etc.). Appropriate Message Type must be used from the list available here
CODED UNEDIFACT 1001
Example/Note: 740
UNTDED: - WCO: -
CIMP Ref.: -



CXML Manual – 1st Edition (3/4)

Graphical User Interface:

WAYBILL HEADER

M Mandatory Occurrence: 1:1

Waybill Number

M Mandatory Occurrence: 1:1 Data Type: T

Description: A serial number provided by the issuing carrier to identify IATA airline code number followed by a hyphen followed by a serial number at the extreme right position

Example/Note: 057-12345675 where issuing carrier's three-digit IATA serial number is 12345675

UNTDDED: - WCO: -

CIMP Ref.: 2.1.1 / 2.1.3 AWB Box 1A / 1B

CIMP Character Representation: nnn-n[8]

Frequently Asked Questions

Following the introduction of IATA Cargo-XML standards, industry is determined to adopt these new standards. In response messages.

- Question 1 What is XML?
- Question 2 What is the function of XML Message?
- Question 3 Who is the target user for implementing the IATA Cargo-XML Standards?
- Question 4 What are the major benefits of IATA Cargo-XML Standards?
- Question 5 What are the major drawbacks of Cargo-IMP technology?
- Question 6 Are Cargo-XML standards proven?
- Question 7 Does the implementation of Cargo-XML standards require changing the Cargo Management System?
- Question 8 How can I adopt IATA Cargo-XML standards if I am using a third party system?
- Question 9 How can I adopt IATA Cargo-XML standards if I am using an in-house (self-developed) system?
- Question 10 What is your approach on Cargo-XML contents backward compatibility with Cargo-IMP Messages?
- Question 11 Does Cargo-XML specification include reference to Cargo-IMP Manual?



CXML Manual – 1st Edition (4/4)

Delivery:

- 1st Edition was published in Dec 2012 and effective from 01 Jan 2013.
- CXML Messages have been frozen for one year.
- Content updates are allowed during the course of a year.
- Future editions of CXML Manual will contain extensive mapping, enhanced user capability section etc.