

Take
the paper
OUT >>



IATA E-FREIGHT
SIMPLE > ELECTRONIC > PAPER FREE

IATA vision on e-freight

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IATA

Bordeaux, 19 January 2011

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About IATA

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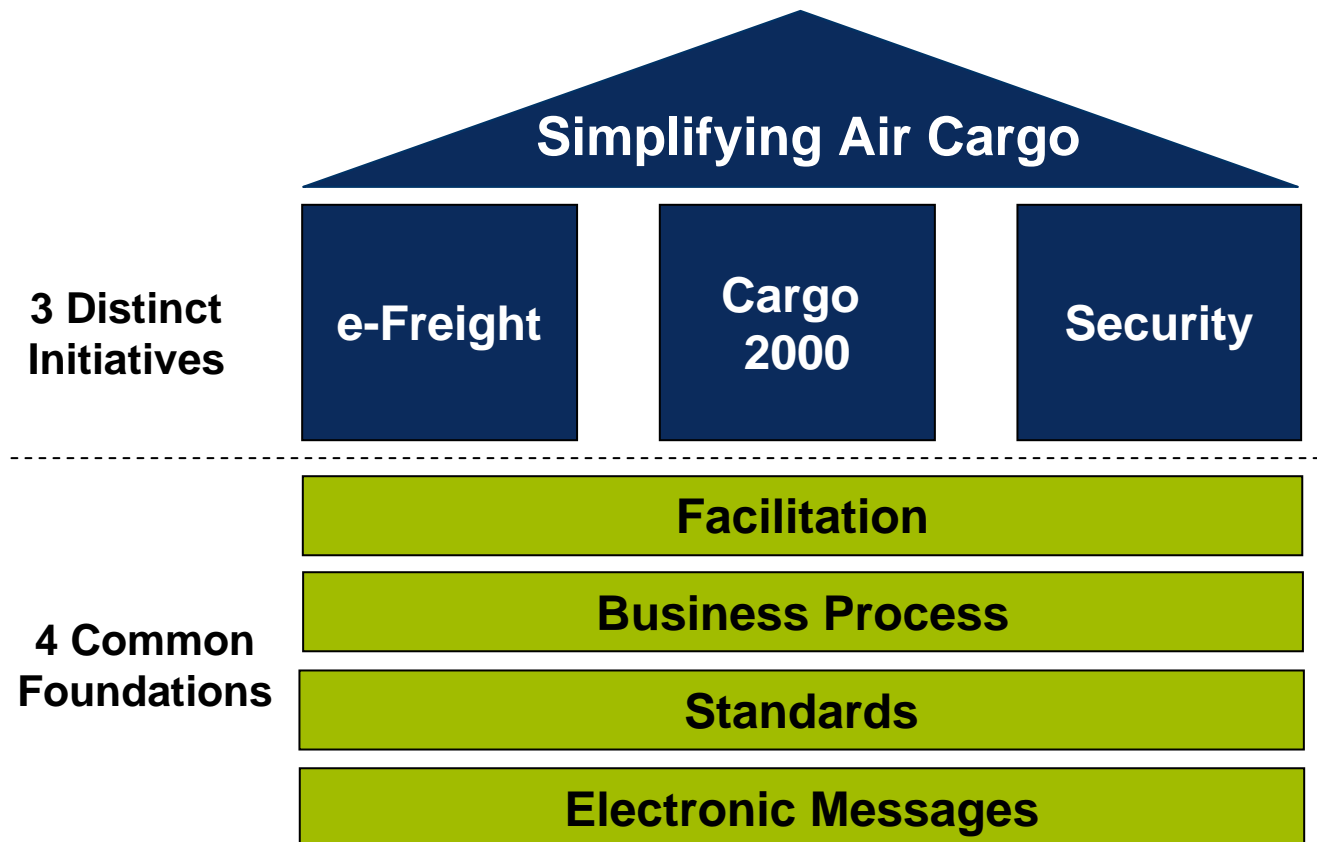
- 
- A large cargo aircraft is shown from a low-angle perspective, flying through a bright, cloudy sky. The aircraft is white with dark accents and has four engines mounted on its wings. The background is a soft, blue and white sky with wispy clouds.
- The International Air Transport Association is the industry's global trade association
 - Founded in 1945 with 230 members in 130 countries, IATA represents 93% of international scheduled traffic
 - IATA's mission is to represent, lead and serve the air transport industry
 - IATA delivers Standards and Solutions to ensure a successful air transport

About Air Cargo

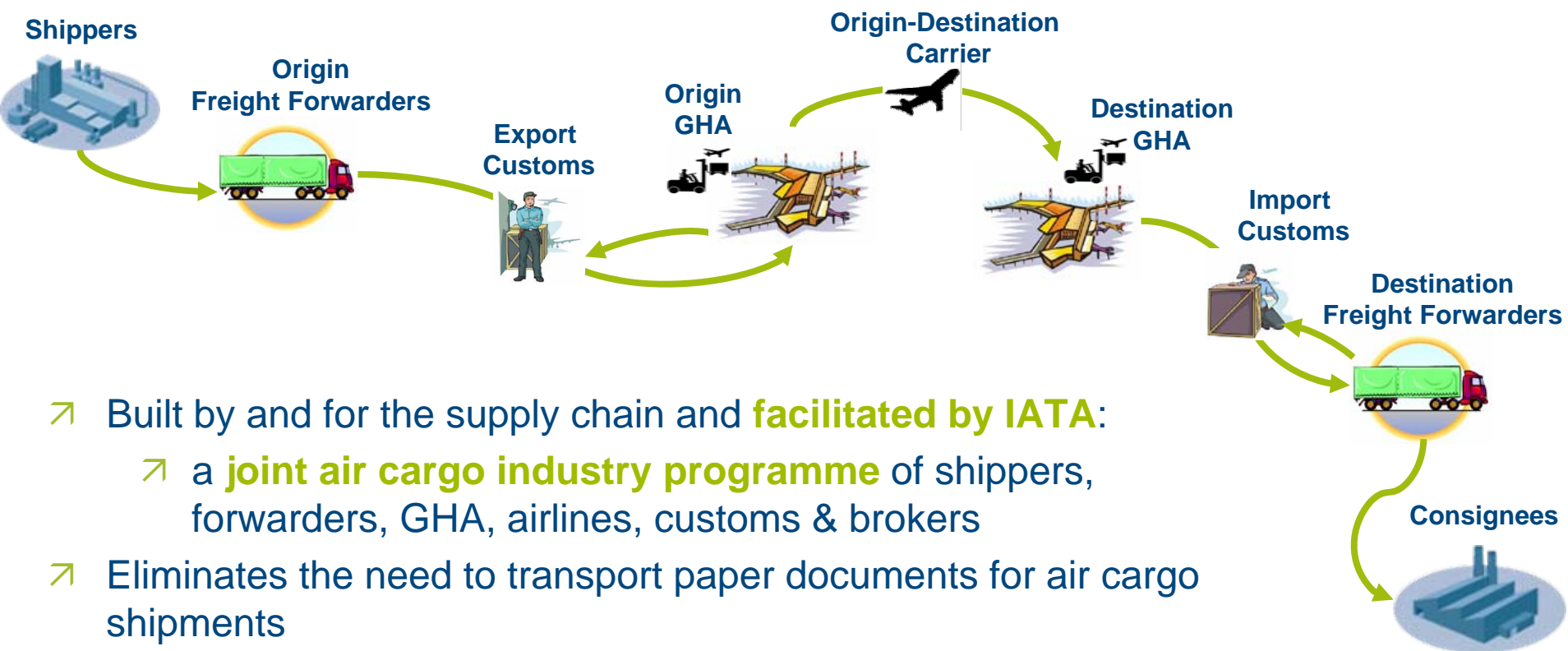
- Scheduled air cargo started 90 years ago with mail
- Essential engine of today's global economy and airlines business
- Consists of general & special cargo e.g. perishables
- 30% of worldwide value of Cargo transported and 3% in volume
- Speed and on time delivery are the competitive advantages



Cargo Standards - Ensuring safety & efficiency



e-freight – Modernizing airfreight



- Built by and for the supply chain and **facilitated by IATA**:
 - a **joint air cargo industry programme** of shippers, forwarders, GHA, airlines, customs & brokers
- Eliminates the need to transport paper documents for air cargo shipments

IATA Cargo 2000 – Improving Quality

- **Quality Management System** for the worldwide air cargo industry
- **Objectives:**
 - Implement a program of agreed business processes and automation industry standards that are **measurable**
 - Quality supported by **data**
 - Improve the **efficiency** of air cargo industry
 - Enhancing customer **service** levels
 - **Reduce** operational costs & **increase** revenue

IATA **Secure Freight** – Keep Cargo Secure

- What?
 - An air cargo supply chain **security solution** involving all stakeholders
 - **One** security standards & ops process manual to certify ‘secure’ operators, recognised by states
 - Securing freight **upstream** in the air cargo supply chain
- Why?
 - **Secure** air cargo network where vulnerabilities exist
 - **Qualitative** benefits (e.g. reduced customs inspections, transit times, theft in inventory management)
- How?
 - Shipper **secures cargo, all operators protect it**
 - Stakeholders are “Secure Operators” compliant with the **Secure Freight Standards Manual**
 - “Secure Operators” follow the **Secure Freight Standards Operating Process** to transfer “Secure Freight”

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e-freight to e-cargo

Air cargo's modernization challenge

Today the air cargo industry still relies on **paper & human intervention**

Airfreight shipment generates up to 30 different paper documents!

Behaviors have not changed yet: bookings, track & trace still predominantly based-on human intervention



The industry is ready for “e”

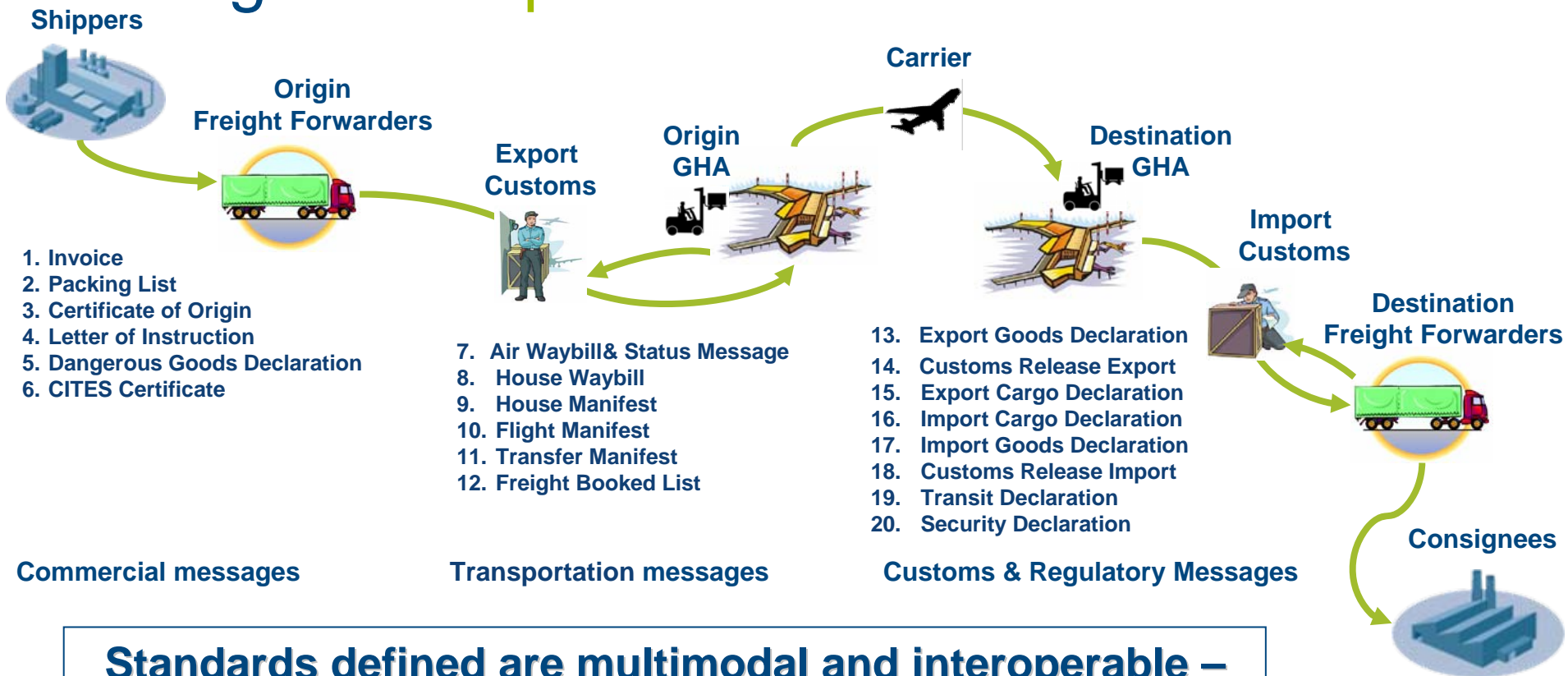
WCO, FIATA, ICAO, CITES, TIACA, IATA, IT providers ... worked together toward the same vision to ensure a paper-free infrastructure is available.

20 multimodal standard electronic messages available

300+ airports in 31 countries and 4 domestic markets ready



e-freight – Scope of Documents



**Standards defined are multimodal and interoperable –
20 documents - 64% of the paper in volume**

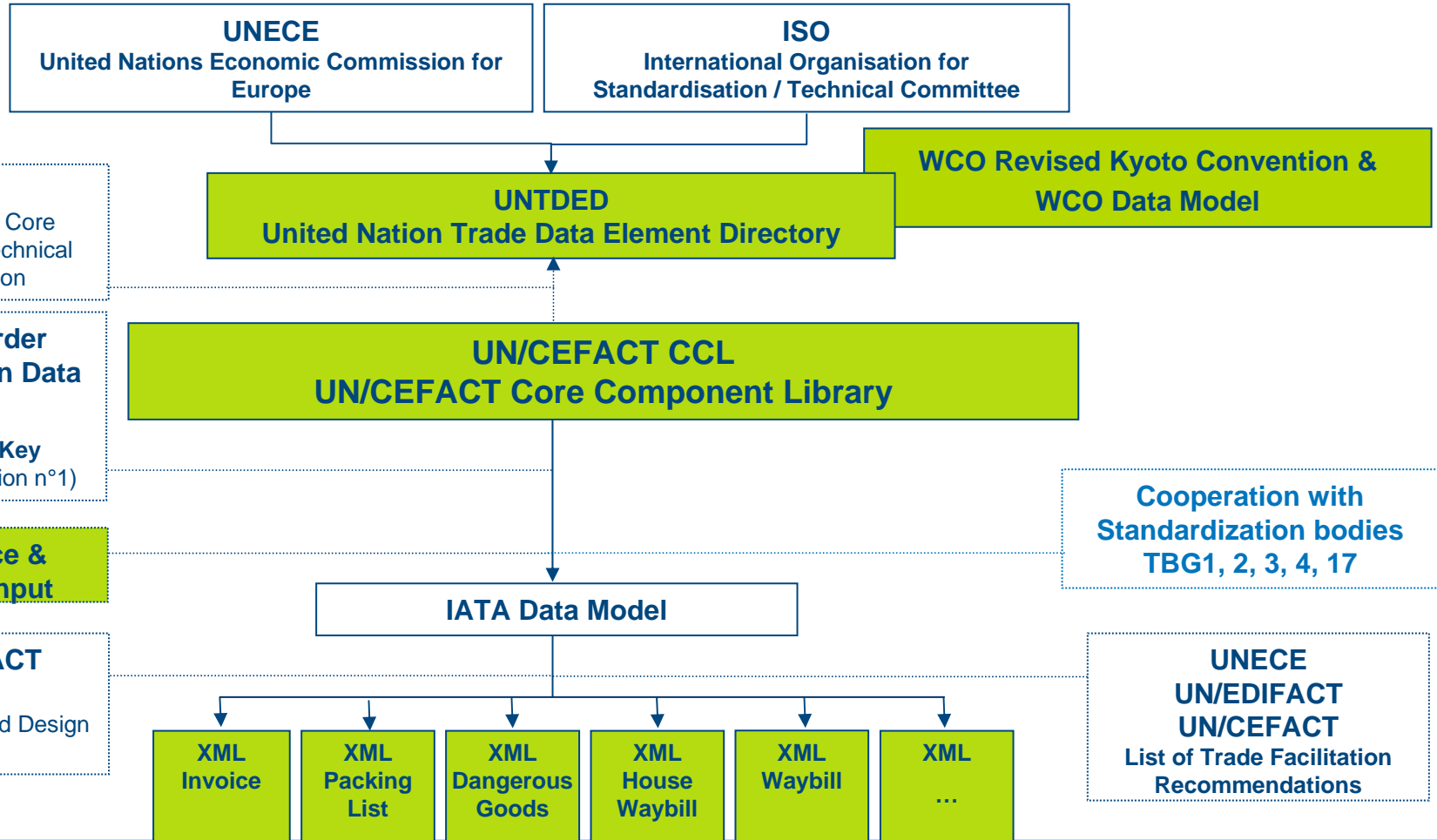
IATA – Recommendation on electronic standards

- IATA recommends the use of electronic standards to reduce the cost of managing diversity in systems integration

- IATA publishes electronic standards:
 - Cargo Interchange Message Procedures, i.e. CIMP focused on transportation messages
 - Cargo XML Messages focused on trade & transportation messages

- IATA recommends the use of WCO electronic standards for Customs interface
 - WCO is developing XML equivalents of their existing EDIFACT standards

IATA – Approach to XML standards





DOCUMENT TYPE	ORGANISATION	STANDARD (2010)	MESSAGE
1 - Invoice	IATA	UN/CEFACT XML	Invoice
2 - Packing List	IATA	UN/CEFACT XML	Packing List
3 - Certificate of Origin	IATA	UN/CEFACT XML	Certificate of Origin
4 - Dangerous Goods Decl.	IATA	CIMP & UN/CEFACT XML	FDD & SDDG
5 - Letter of Instruction	IATA	UN/CEFACT XML	Shippers Letter of Inst. (SLI)
6 - CITES Certificate	CITES	UN/CEFACT XML	e-CITES
7 - House Waybill	IATA	CIMP & UN/CEFACT XML	FZB & XZB
8 - House Manifest	IATA	CIMP & UN/CEFACT XML	FHL & XZB
9 - Air Waybill Status Update	IATA IATA	CIMP & UN/CEFACT XML CIMP & UN/CEFACT XML	FWB & XWB FSU & XSU
10 - Flight Manifest	IATA	CIMP & UN/CEFACT XML	FFM & XFM
11 - Transfer Manifest	IATA	CIMP	FSU (TFD & RCT Codes)
12 - Freight Booked List	IATA	UN/CEFACT XML	FBL & XBL
13 - Export Goods Declaration	WCO	EDIFACT & UN/CEFACT XML	WCODEC
14 - Customs Release Export	WCO	EDIFACT & UN/CEFACT XML	CUSRES
15 - Export Cargo Declaration	WCO	EDIFACT & UN/CEFACT XML	WCOCAR
16 - Import Cargo Declaration	WCO	EDIFACT & UN/CEFACT XML	WCOCAR
17 - Import Goods Declaration	WCO	EDIFACT & UN/CEFACT XML	WCODEC
18 - Customs Release Import	WCO	EDIFACT & UN/CEFACT XML	CUSRES
19 - Transit Declaration	IATA	EDIFACT & UN/CEFACT XML	Transit Declaration
20 - Security Declaration	IATA	CIMP & UN/CEFACT XML	Security Declaration

e-freight – Geographic network today

- 31 live countries
 - USA, Canada, Chile
 - Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Hungary, Iceland, Luxembourg, Netherlands, Norway, Spain, Sweden, Switzerland, UK
 - Egypt, Mauritius, Dubai
 - China, Chinese Taipei, Hong Kong
 - Australia, Japan, South Korea, Malaysia, New Zealand, Singapore

- 11 countries under implementation
 - Colombia, Mexico
 - Ireland, Israel, Italy, Malta, Romania, Slovakia, Slovenia
 - Pakistan, Thailand

- 4 domestic markets
 - Germany, Spain, USA, South Korea

e-freight - Benefits



- Reduced supply chain costs
- Faster supply chain transit times
- Greater data accuracy
- Improved shipment tracking
- Regulatory compliance
- Increased security
- Better for the environment

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Shipper's Declaration for Dangerous Goods (SDDG)

SDDG Task Force Members

➤ Shippers

- Ciba AG
- Syngenta Crop Protection AG
- VOHMA

➤ Freight Forwarders

- DGF (DHL)
- KUEHNE + NAGEL

➤ Carriers

- SWISS International Air Lines Ltd
- Lufthansa Cargo AG
- Air Canada Cargo
- Cathay Pacific
- Singapore Airlines

➤ Ground Handling Agents

- Fraport Cargo Services
- Swissport International Ltd

➤ Organizations

- SITPRO / TNL
- UNECE Transport Division
- UN/CEFACT TBG3 Secretary
- FIATA
- Davies Turer & Co Ltd (FIATA)

➤ IT Service Provider

- Cargonaut B.V.
- GLSHK
- DGM Support B.V.

The opportunity – ICAO technical instructions

- Clearly permits removal of paper and use of electronic exchange of data instead
- Provides basic, simple rule: name in capitals of authorised signatory
- Not prescriptive type of electronic data: could be EDI (XML/Cargo-IMP, could be pdf, others!)
- Process adopted by industry need to be validated with national authorities.
- Many authorities explicitly refer to ICAO instructions in their legislation, some do not (Canada/US).

Proof of Concept – Goals

- Prove it is possible and viable to eliminate paper SDDG and replace it with electronic exchange of information
- Define and implement the business process (or business process options) to do that
- Validate with civil aviation authorities concerned, and test on a number of trade lanes with live cargo shipments
- Prove the newly developed XML standard is a viable option for data exchange
- Validate the newly developed XML standard and integrate changes if needed in the specs

Proof of Concept - Participants

➤ Airlines

➤ Air Canada, Cathay Pacific, Lufthansa, Singapore Airlines, Swiss World Cargo

➤ Freight Forwarder

➤ Ritschard

➤ Ground Handler

➤ Swissport

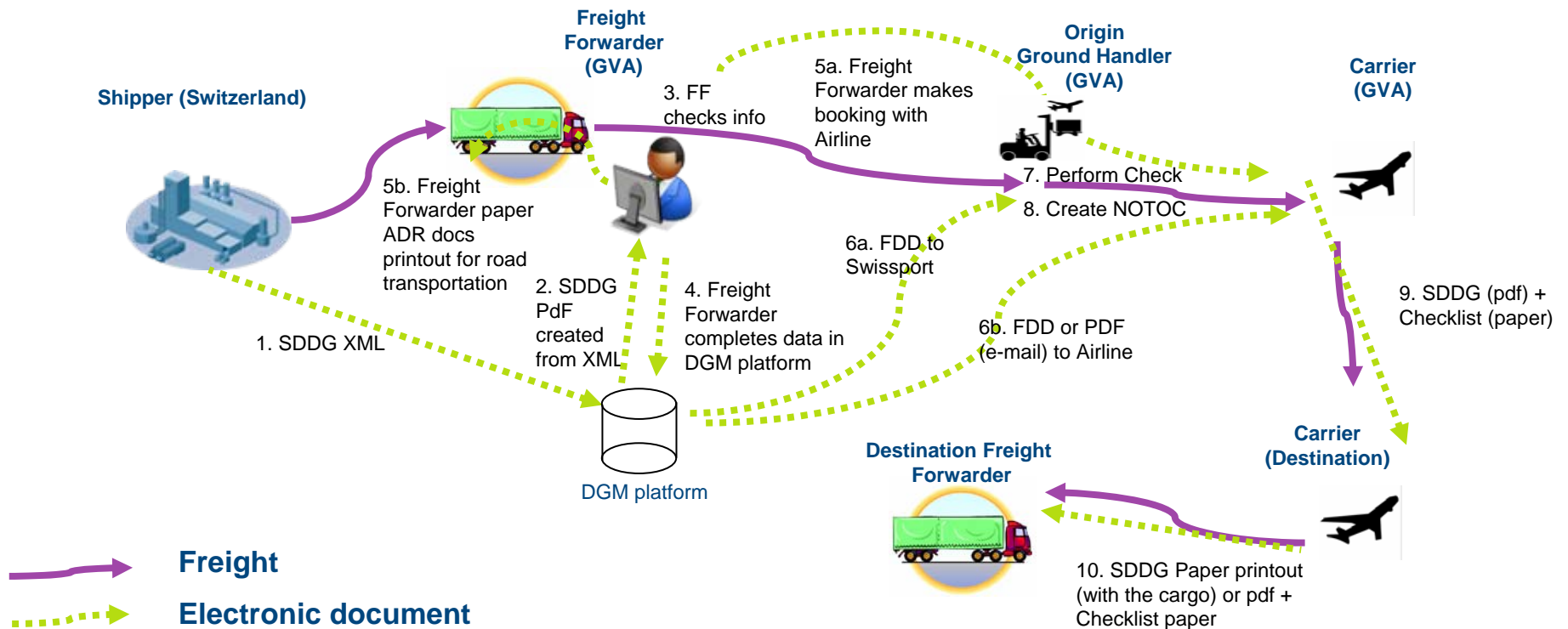
➤ Technology Supplier

➤ DGM

➤ Shipper

➤ Company based in Switzerland

SDDG – To-Be business Process





Shippers Declaration for Dangerous Goods

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

Shipper		Air Waybill No.															
Consignee		Page of Pages Shipper's Reference Number <i>(optional)</i>															
<p><i>Two completed and signed copies of this Declaration must be handed to the operator.</i></p>		<p>WARNING</p> <p>Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.</p>															
<p>TRANSPORT DETAILS</p> <p>This shipment is within the limitations prescribed for: <i>(delete non-applicable)</i></p> <table border="1"> <tr> <td>PASSENGER AND CARGO AIRCRAFT</td> <td>CARGO AIRCRAFT ONLY</td> </tr> </table> <p>Airport of Departure:</p> <p>Airport of Destination:</p> <p>Shipment type: <i>(delete non-applicable)</i> <input type="checkbox"/> NON-HAZARDOUS <input type="checkbox"/> HAZARDOUS</p>		PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY	<p>For optional use for Company logo name and address</p>													
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY																
<p>NATURE AND QUANTITY OF DANGEROUS GOODS</p> <p>Dangerous Goods Identification</p> <table border="1"> <thead> <tr> <th>UN or ID No.</th> <th>Proper Shipping Name</th> <th>Class (or Division) (Subsidiary Risk)</th> <th>Packing Group</th> <th>Quantity and type of packing</th> <th>Packing Inst.</th> <th>Authorization</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				UN or ID No.	Proper Shipping Name	Class (or Division) (Subsidiary Risk)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization							
UN or ID No.	Proper Shipping Name	Class (or Division) (Subsidiary Risk)	Packing Group	Quantity and type of packing	Packing Inst.	Authorization											
Additional Handling Information																	
<p>I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.</p>		<p>Name/Title of Signatory</p> <p>Place and Date</p> <p>Signature <i>(see warning above)</i></p>															

Annex II MULTI-MODAL DANGEROUS GOODS FORM

1. Shipper/Consignee Sender		2. Transport document number			
3. Page 1 of Pages		4. Shipper's reference			
5. Freight Forwarder's reference		7. Carrier (to be completed by the carrier)			
8. Commodity		<p>SHIPPER'S DECLARATION</p> <p>I hereby declare that the contents of this consignment are fully and accurately described below by the proper shipping name, and are classified, packaged, marked and labelled/placarded and are in all respects in proper condition for transport according to the applicable international and national government regulations.</p>			
<p>9. The shipment is within the limitations prescribed for: <i>(delete non-applicable)</i></p> <table border="1"> <tr> <td>PASSENGER AND CARGO AIRCRAFT</td> <td>CARGO AIRCRAFT ONLY</td> </tr> </table>		PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY	8. Additional handling information	
PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT ONLY				
10. Vessel flight no. and date	11. Port of loading	12. Part piece or discharge			
12. Part piece or discharge	13. Destination				
14. Shipping marks		* Number and kind of packages; description of goods			
16. Net and container/vehicle reg. number		18. Seal number(s)			
17. Container/vehicle size & type		19. Total gross & net wt.			
<p>CONTAINER/VEHICLE PACKING CERTIFICATE</p> <p>I hereby declare that the goods described above have been packed loaded into the container/vehicle identified above in accordance with the provisions shown overleaf.</p> <p>MUST BE COMPLETED AND SIGNED FOR ALL CONTAINER/VEHICLE LOADS BY PERSON RESPONSIBLE FOR PACKING/LOADING.</p>		<p>21. RECEIVING ORGANISATION RECEIPT</p> <p>Received the above number of multi-specimen containers in apparent good order and condition unless stated herein. RECEIVING ORGANISATION REMARKS:</p>			
20. Name of company		22. Name of company ICF SHIPPER PREPARING THIS NOTE			
Name/Status of declarant		Name/Status of declarant			
Place and date		Place and date			
Signature of declarant		Signature of declarant			
Haulier's name		Driver's signature			
Vehicle reg. no.		Signature of declarant			
Signature and date		Signature of declarant			



What is EasyDGR?

- Easy-to-use web tool assisting to ensure that dangerous goods shipments are properly prepared in accordance with the most current DGR
- Online solution taking the guesswork out of shipping dangerous goods (DG) right through the entire supply chain

Who is EasyDGR for?

- Supply chain stakeholders participating in the transport of DG by air
- Primarily geared towards the shippers of DG
- Other target audiences include Airlines (Operators), Ground Handlers, Freight Forwarders, Cargo Agents

Features of the Product

- Creates **compliant** and **valid** dangerous goods declarations for all shipments including radioactive, all-packed-in-one and overpacks
- Includes the entire DGR manual in an easy-to-use electronic format and always accessible online
- Highly customizable through custom reports, creating custom substances, address book, and pre-populated forms
- Is e-Freight compatible and can send shipment data in an e-freight XML schema
- Easy and enhanced search capabilities
- Shipment creation and reporting capabilities - Can create specific shipment preparation instructions
- Developed and supported by the industry's top subject matter experts and authors of the IATA DGR
- Intuitive layout and design

References

IATA Cargo Website

⇒ www.iata.org/cargo

IATA EasyDGR

⇒ www.easydgr.com

⇒ Free 10-day trial available by registering at

http://www.iata.org/html_email/car1002275/car1002275-form.html

IATA World Cargo Symposium, March 2011, Istanbul

⇒ <http://www.iata.org/events/wcs2011/Pages/default.aspx>

Thank You

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to represent, lead and serve the airline industry