Strategic Trends in Air Cargo

Regional Symposium in Brazil

This two-day symposium is a comprehensive event with both informational and practical components for executives in civil aviation administrations, airlines, logistics companies, aviation training centres and for industry experts and support personnel with an interest in the trends and strategies for the air cargo market. The event will be conducted in English, Spanish and Portuguese with interpretation/translation as appropriate.

E-freight and e-AWB as a part of E-commerce

Vladimir D. Zubkov

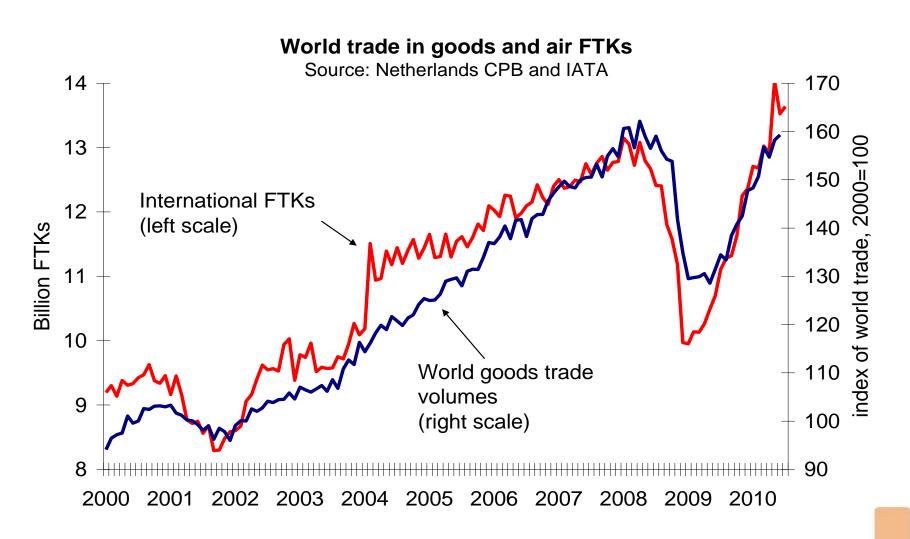
Vice-President, Volga-Dnepr Group Board Member of TIACA





Is really E-freight a part of E-commerce ???

Freight is a barometer of state of the commerce





Air cargo is only 0.5% in the global volume, but 35% in terms of its value

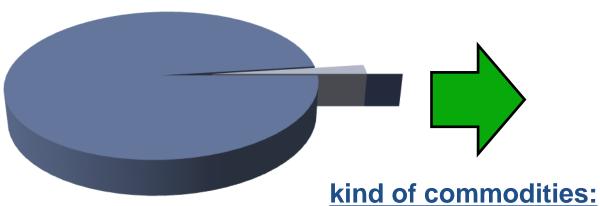


Cargo volume

■ Global Cargo ■ Air cargo

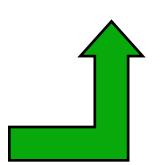
Cargo value

- Global cargo volume
- Air cargo volume



35%

perishables
live stock
valuable cargo
electronics
urgent
just-in-time (for assembly
lines)
project cargo
unique cargo





Manufacturing & Distribution Process Demonstrates importance of good logistics and the Utility of Air Cargo to World Economies

iPhone Components & Source Countries

LCD Display

Flash Memory Chip

Applications Processor

DRAM Memory

Bluetooth, GPS Chips

Radio Frequency Memory

Touch Screen Control, Wi-Fi

Receiver/Transceiver

Power Management

Accelerator/Gyroscope







The industry is ready for "e"

WCO, FIATA, ICAO, 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





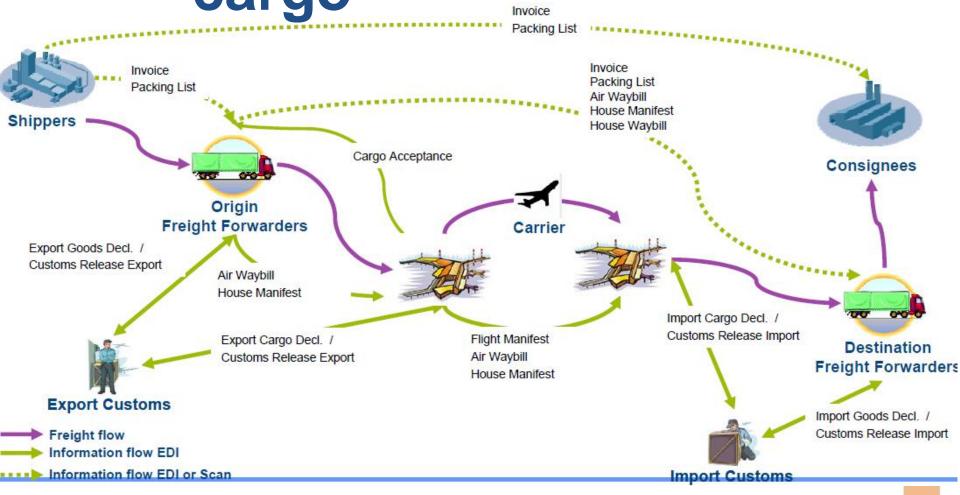


E-Freight fundamentals

- e-Dock standards used as part of e-freight rely on use of EDI (Cargo-IMP or XML) or scanned images (for some documents)
- e-freight uses the existing air cargo industry messaging infrastructure.
- Participants must acquire technology capabilities or use tools provided by 3rd party providers
- •Acknowledgement of IATA's role and data!

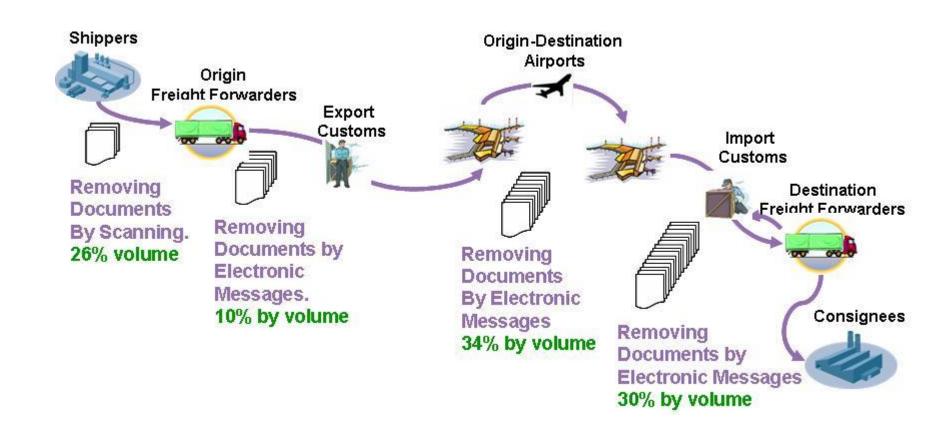


e-freight end-to-end data flow -for general cargo





E-freight: what happens with the documents



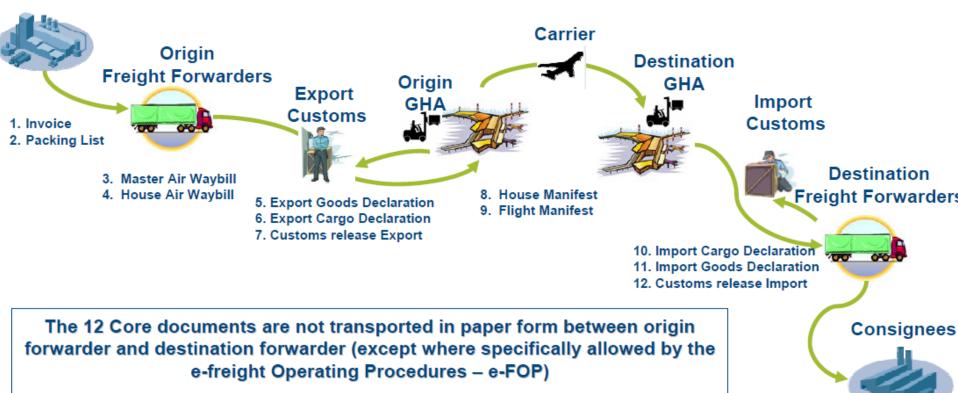


Scope e-freight (12 core documents)

Interface between Shipper and Forwarder (at origin and destination) can be paper or electronic



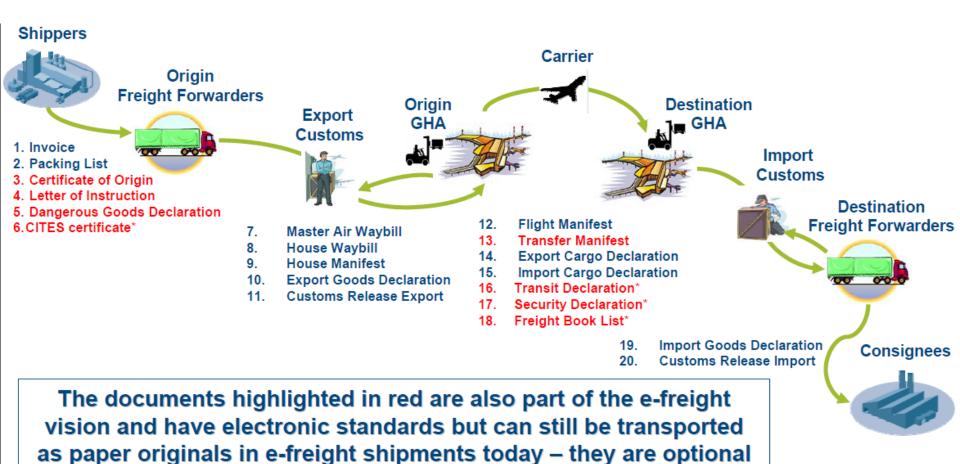
Shippers







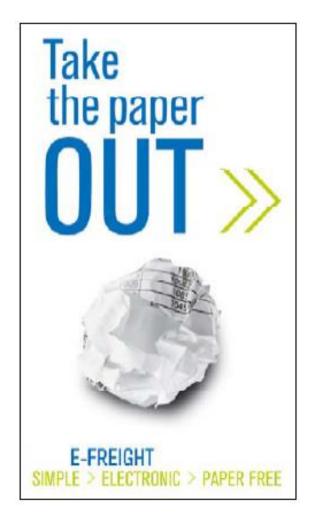
Scope e-freight (8 optional documents)





e-freight: Why do it?





Cost:

Eliminate paper handling and processing cost (eliminates data re-capture)

Time:

Reduced freight "wait time"

• Quality:

Unified Quality Management Standards

Visibility:

Quality electronic messaging for tracking status of freight

Sustainability:

Contribute to environment by reducing paper consumption





Improves logistics

World Bank Logistics Performance Index 2010 - 2012

State	2010 rank	2012 rank
Germany	1	4
Singapore	2	1
South Africa	23	23
China	27	26
Brazil	41	45
India	47	46
Russia	94	95

ВОЛГА (В) ДНЕПО

Busiest Air Cargo Airports

in the World



1. Moscow Domodedova (115) 128,385

3. Tashkent (231)

32,427

Asia

1. Hong Kong (2) 2,543,394 2. Shanghai (3)

3. Seoul-Incheon (4) 2,313,001

4. Tokyo-Narita (10) 1,851,972

5. Singapore (11) 1,660,724

1,475,649

7. Taipei (15) 1,358,304

1,045,194

9. Guangzhou (21) 955,270

605,469

13. Kuala Lumpur(28) 601,620

14. Jakarta (39)

446,245

15. Shanghai-SHA (41) 439,072

566,368

4. Bangalore (96) 162,875

5. Dhaka (103) 147,239

141,107

8. Calcutta (133) 102,121

2. Moscow Sheremetyevo (119) 118,353 35,791 4. Moscow Vnukovo (242)

5. Kiev Borispol (265)

27,164

3,385,313

6. Beijing (14)

8. Bangkok (20)

10. Tokyo-Haneda (24) 779,118

11. Osaka (26) 608,876

12. Shenzhen (27)

SW Asia

1. Mumbai (30) 473,218 2. Delhi (38)

3. Chennai (59) 306,508

6. Karachi (104) 146,674

7. Colombo(107)

9. Lahore (163) 77,078

10. Hyderabad (183) 64.358

() - World Ranking



1,994,629 5. Luxor (131)

1,949,528 1,557,401

3,697,054

USA

4. Miami (12) 5. Los Angeles (13) 1,509,236

1. Memphis (1)

3. Louisville (7)

2. Anchorage (6)

6. New York –JFK (18) 1,144,894

7. Chicago-O'Hare (19) 1,047,917

8. Indianapolis (22) 944,805 9. Newark (23) 779,642

10. Dallas -DFW (29) 578,906

11. Atlanta (31) 563,139

12. Oakland (36) 491,138

13. Philadelphia (42) 433,439 14. San Francisco (45) 408,102

15. Houston – IAH (51) 372.662

1. Cairo (62) 285,839 2. Nairobi (66) 263,070

3. Johannesburg (70) 252,063

4. Lagos (94) 175,828

103,541

Latin America

1. Bogota (33) 512.842 2. Sao Paulo Guarulhos (47) 382,722

3. Mexico City (57) 325,452

4. Santiago (69) 255,789 5. Lima (75) 232,374

6. Sao Paulo Viracopos (92) 198,203 7. Buenos Aires (98) 162,745

8. Quito (105) 143,767 9. Manaus (106) 142,623

10. Rio De Janeiro (123) 110,853 5. Bahrain (55) 342,734

1. Dubai (8)

2. Doha (34)

3. Sharjah (43)

10. Istanbul (49)

4. Abu Dhabi (48)

Europe

1.927.520

421,395

382,523

381,174

511,983

1. Paris-CDG (5) 2,054,515 2. Frankfurt (9) 1,887,686 3. Heathrow (16) 1,349,571 4. Amsterdam (17) 1,317,120 5. Luxembourg (25) 628,667 6. Cologne (32) 552,363 7. Leipzig (35) 507,135 8. Leige (37) 482,118 9. Brussels (44) 411.690



E-freight status 2012





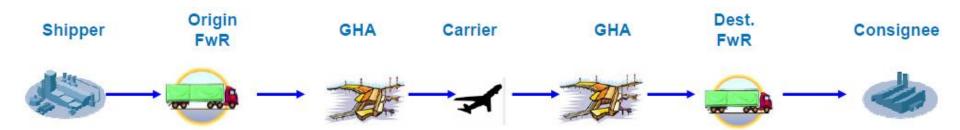
E-freight requires three components to work in the supply chain

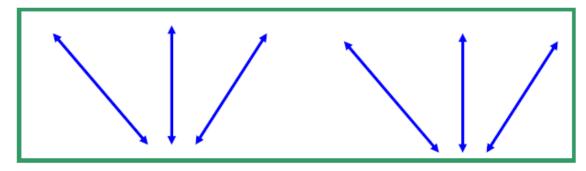
- 1)Electronic customs environment
- 2)Electronic communication between forwarder, airline and ground handler
- 3)Electronic communication between forwarder at origin and forwarder/consignee at destination



1) Electronic customs environment









Export Customs





Electronic Customs Environment

- -Ability to make customs decls electronically (export <u>and</u> import)
- -No requirement to show original paper documents for invoice and packing lists during or post transit
- -Electronic docs (invoice/packing list) must be accepted in electronic format, or printed copy

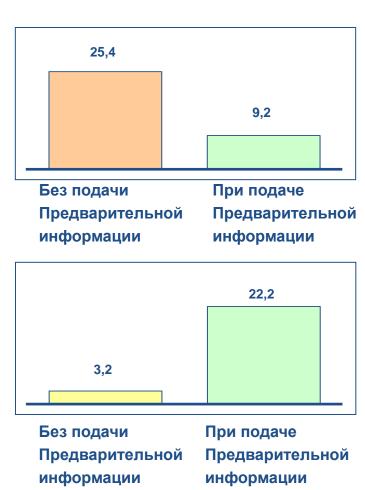






Средняя задержка начала разгрузки воздушного судна (минут)

Опережение графика окончания разгрузки воздушного судна (минут)

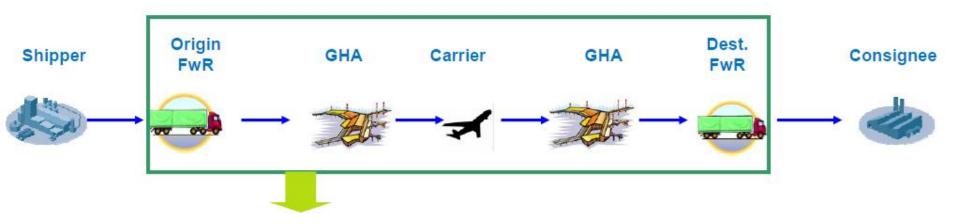


- Всего в ходе исследования были получены данные по 2057 рейсам
- Из них 1519 с грузом (74%)
- На 700 рейсов было получено предварительное разрешение на выгрузку (46%)
- При получении предварительного разрешения на выгрузку значительно (в 3-7 раз) улучшаются временные показатели начала и окончания разгрузки воздушных судов

При получении предварительного разрешения на выгрузку значительно улучшаются временные показатели начала и окончания разгрузки ВС



2) Electronic communication between forwarder, airline and handler

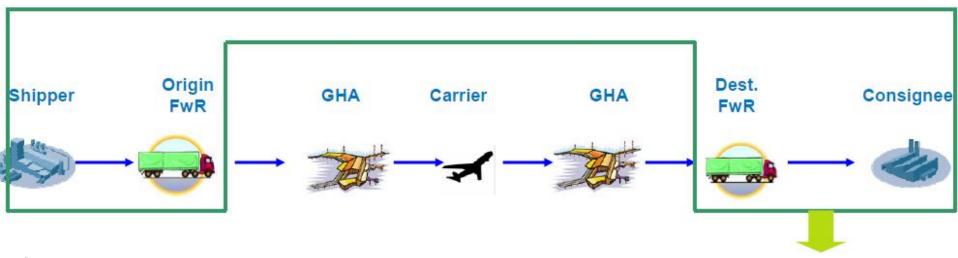


- 2) Electronic communication between FF-Airline-GHA
- -Ability to communicate FWB and FHL information between FF-Airline-GHA systems (or capture information on airline web portal)
- -e-AWB agreements signed and implemented (currently optional for e-freight but mandatory as of Jan 2013)
- -Procedures defined between FF-GHA-Airline to accept freight at acceptance counter (origin) and for freight delivery (destination) without original paper docs (may require use of a shippers delivery note or warehouse receipt)



3) Electronic communication between origin and destination forwarder/consignee





- 3) Electronic communication between origin and destination forwarder/consignee
- -Ability of origin forwarder to communicate key documents to destination forwarder, broker and shipper electronically (house air waybill, invoice, packing list)
- -Ability to archive documents electronically (e-Archiving)
- -Once the above are in place, the forwarder does not need to provide these documents to the airline for carriage to destination (Elimination of the document pouch for general cargo documents, reduced pouch for other cargo that needs special cargo docs in the pouch)





What are the key e-freight challenges?





Consignees

entire supply chain to work together to change the way it operates





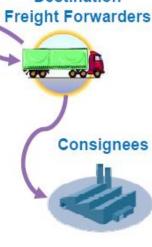
Consignees

can we operate without paper and still deliver to the end-customer?





new demands on the industry for data











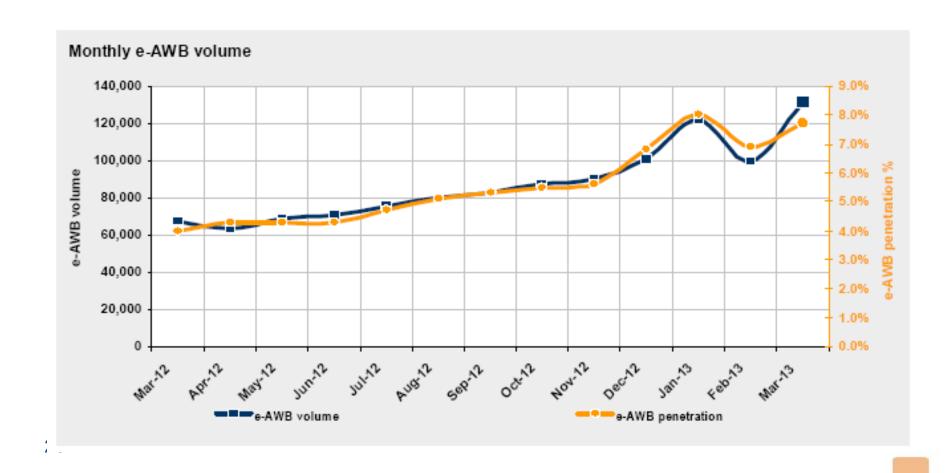
Examples of challenges already addressed





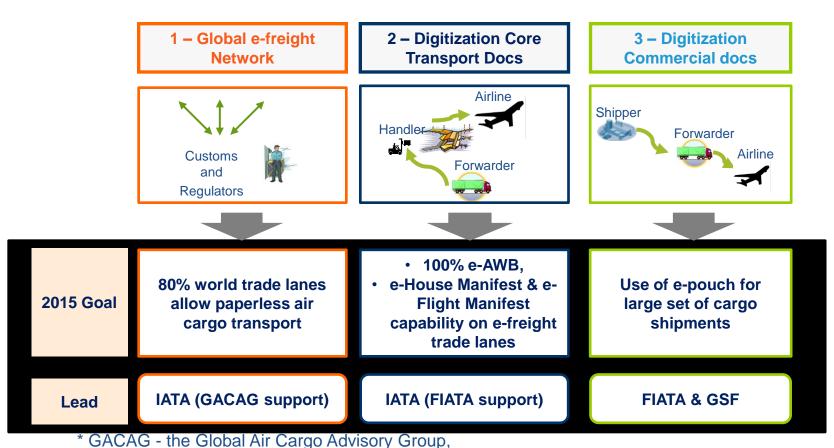
Where is the industry?







The GACAG* vision for 2015



which comprises four global industry associations – IATA, FIATA, TIACA, and the Global Shipper's Forum

TIACA – the major partner of IATA in the implementation

Working to advance the world of air cargo

To find out more about TIACA, go to www.tiaca.org



Who are members of TIACA



- Airlines
- Freight Forwarders
- Shippers
- Logistics Service Providers
- Integrators
- Airports
- Ground Handling Agents
- General Sales Agents
- Aircraft Manufacturers
- Trucking Organizations
- Technology Providers
- Courier & Express Operators
- Industry Media



There is no alternative to E-freight in aviation

