Welcome

Air Mail For an efficient, safe, secure and seamless delivery

Andre Majeres Head of e-Commerce & Cargo Operations

IATA



Competition Law Guidelines

This meeting is being conducted in full compliance with antitrust and competition law.

The following Agreements and Activities are Prohibited:

• Any collective agreement concerning prices or charges, allocating markets, territories, customers, suppliers, agents, etc.

It is Prohibited to disclose the following information:

- Individual airline cost, rates, charges, surcharges or customer
- Individual airline intentions regarding increasing, reducing or reallocating aircraft capacity
- Sensitive commercial or proprietary information without consent

Delegates are cautioned that any discussion regarding topics outside the scope of the agenda, either on the floor or off, is strictly prohibited. The foregoing applies equally to email discussions, instant messaging and social media discussions

IATA Introduction

290+ airlines 83% of the world's air traffic 35% of the global trade by value 100000

Air Cargo: Supporting World Trade **35%** of total **World Trade** \$5.9 trillion Value of cargo moved by air

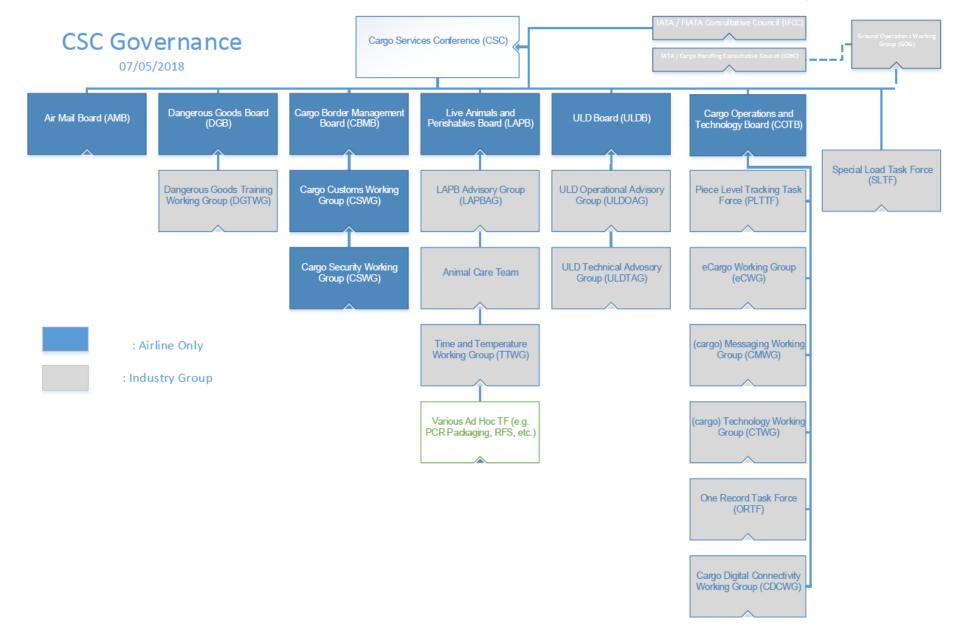
1% by Volume

Serving the Industry

STANDARDS

ADVOCACY SOLUTIONS

We make standards with the Industry



We collaborate with Industry Partners

Our industry partners



NB: Please note this is not an exhaustive list of the organizations we collaborate with, nor of the specializations within IATA Cargo.

Objective of the webinar: Create Awareness!

- I. Safety is our number 1 priority
- II. Electronic Advanced Data (EAD) requirements
- III. The eCommerce challenge





Joint IATA and UPU webinar introduction

13 April2022

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The Universal Postal Union

- Founded in Berne in 1874 (192 member countries)
- United Nations specialized agency (since 1948)

The Postal Network

- 320.4 billion letter-post items
- 5.2 million employees, more than 690,000 post offices
- More than 80% of traffic comes from industrialized countries

Activities

- Regulating worldwide traffic of international mail
- Establishing quality-of-service standards
- Establishing technical standards
- Maintaining a system for compensating countries known as terminal dues
- Promoting the development of modern products and services
- Monitoring market trends
- Promoting international cooperation and technical assistance
- Fostering a dialogue among all postal sector players





Supply chain – key challenges

Improve the interoperability of network infrastructure, by ensuring quality of service, efficient and secure supply chains, the development of standards and of information and communication technologies (ICTs), and streamlined operational processes and regulations"

Three pillars of the Suply chain:

- Security
- Customs
- Transport





Scale of the regulatory challenge



Universal Postal Union

Data transfer to be mandatory. Changes to the remuneration structures.



GDPR. EU General Data Protection Regulations legislation.





Import Control System 2. Pre-departure data requirements for aviation security.



E-privacy. Defining the need to "opt in" or "out" and its impact on DM.



Modernising VAT. EU legislation shifting the tax liability to the sender.



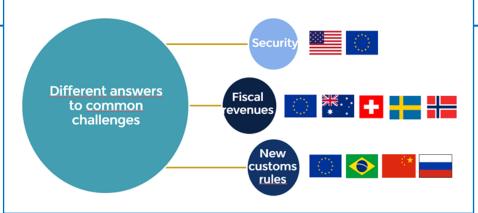
USO. Redefining the regulation in EU and how to finance the USO



US Stop Act. Data requirement on all goods required to enter the US.



Multiplication of new regulations worlwide



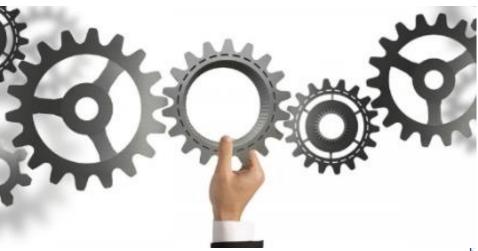




Different standards... though very similar... EDI, handling, customs filing, security screening...

Necessity to align...







Lithium Batteries in the Post

Vincent J. Desiderio

Hazardous Materials Program Specialist

U.S. Postal Inspection Service- Security Group







USPIS HAZMAT PROGRAM

"To protect the **U.S. Postal Service and its** employees, customers, business partners, and infrastructure from threats posed by undeclared and improperly prepared dangerous goods in the mail."







WHAT ARE LITHIUM BATTERIES AND WHY ARE THEY IMPORTANT?







Lithium Metal Batteries











Lithium-Ion Cells









Lithium-Ion Batteries









Lithium-Ion Batteries









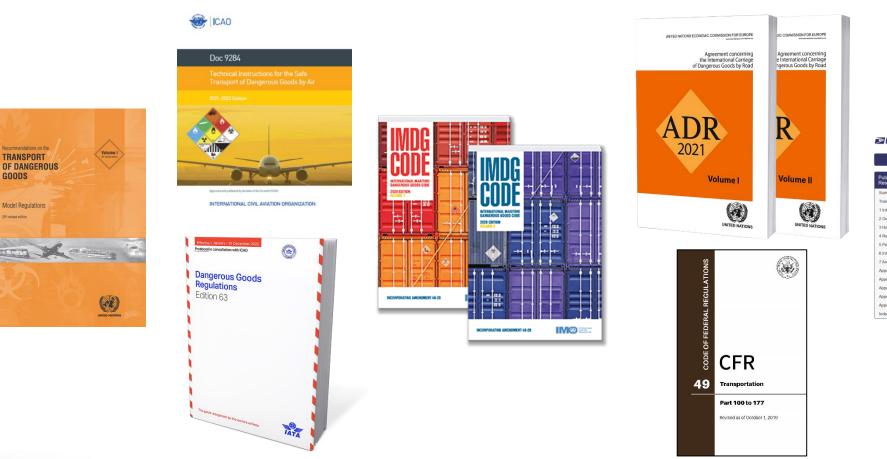
HOW ARE LITHIUM BATTERIES **REGULATED?**







DG Regulations





PE Tools • Publications •	Business Solutions - Archives - Help -	Q Search	
Publication 52 - Hazardous, Restricted, and Perishable Mail	Publication 52 - Hazardous, Restricted, and Perishable Mail	index (Next	
Summary of Changes	Mailing Standards of the United States Postal Service		
Transmittal Letter	Publication 52 - Hazardous, Restricted, and Perishable October 2021	Mail	
1 Introduction - 2 General Guidelines -	E Summary of Changes	7 Air Transportation Requirements	
3 Hazardous Materials -	Transmittal Letter	71 General 72 Hazardous Materials: Air Transportation 73 Restricted Matter: Air Transportation	
4 Restricted Matter - 5 Perishable Matter -	1 Introduction	73 Restricted Matter: Air Transportation 74 Perishable Matter: Air Transportation	
6 International Mail +	12 Scope 13 Additional Information	Appendix A	
Air Transportation Requirements Appendix A	14 Safety 15 Protecting Personnel	Appendix B	
Appendix B	16 Military Postal System 17 Statutory System	Appendix C USPS Packaging Instruction 1A USPS Packaging Instruction 1B USPS Packaging Instruction 2A USPS Packaging Instruction 2B USPS Packaging Instruction 2C	
Appendix C -	18 Trademarks of the USPS		
Appendix E -	2 General Guidelines		
Index	22 Marking Requirements 23 Handling Hazardous Materials	USPS Packaging Instruction 2D USPS Packaging Instruction 2E	
	 24 Emergency Procedures 25 Basic Guidelines for Acceptance and Dispatch 	USPS Packaging Instruction 2F USPS Packaging Instruction 3A USPS Packaging Instruction 3B	



TRANSPORT

Model Regulations

GOODS

20th revised edition

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Lithium Batteries in the Post

	Domestic (USPS)		
	Surface	Air	International
UN3480	20Wh per cell or 100Wh per Battery 5lbs per package	PROHIBITED	PROHIBITED
UN3481	20Wh per cell or 100Wh per Battery	20Wh per cell or 100Wh per Battery	20Wh per cell or 100Wh per Battery
	8 Cells or 2 Batteries	8 Cells or 2 Batteries	4 Cells or 2 Batteries (Contained In Equipment Only)
UN3090	1g Per Cell or 2g Per Battery 5lbs per package	PROHIBITED	PROHIBITED
UN3091	1g Per Cell or 2g Per Battery	1g Per Cell or 2g Per Battery	1g Per Cell or 2g Per Battery
	8 Cells or 2 Batteries	8 Cells or 2 Batteries	4 Cells or 2 Batteries (Contained In Equipment Only)





WHY IS THIS IMPORTANT?























June 4, 2019

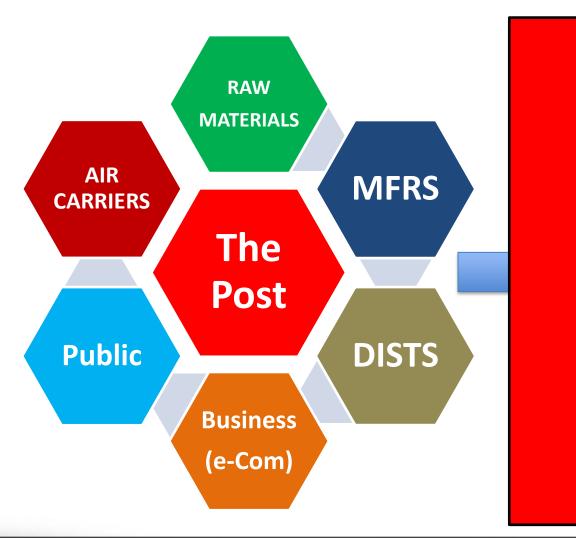




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Shared Responsibility











Risk Spectrum: Shipper Types

Low Volume

High Volume









The Nexus





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Resources and Initiatives



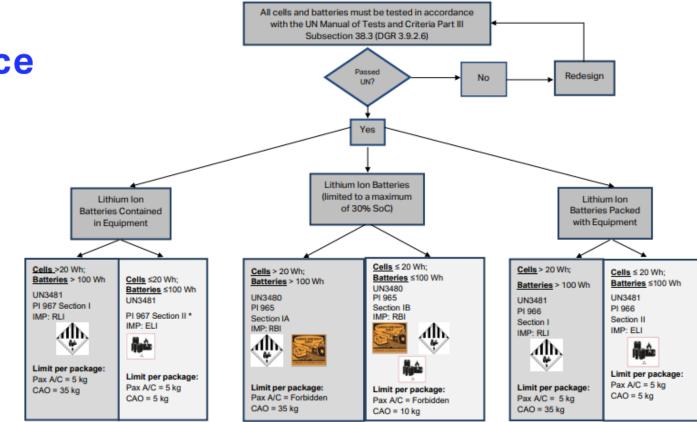






2022 Lithium Battery Guidance Document

Transport of Lithium Metal and Lithium Ion Batteries



Classification Flowchart – Lithium Ion Batteries

* exceptions exist to the marking requirements - see PI 967 Section II

https://www.iata.org/en/programs/cargo/dgr/lithium-batteries/

https://www.iata.org/contentassets/05e6d8742b0047259bf3a700bc9d42b9/lithium-battery-guidance-document.pdf







UPU Joint Initiatives

- Dangerous Goods Training (ICAO-UPU)
- IATA-UPU Mail Safety Guidelines*
- Dangerous Goods Search Tool (UPU)
- Equipment Containing Lithium Batteries (ECLB) Roadmap
- Lithium Battery Training (Multiple)

*https://www.iata.org/contentassets/15ee3a255dc447b886d9a7e91fa65dbe/mail-safety-requirements.pdf





THANK YOU!



VJDESIDERIO@USPIS.GOV



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RECONNECTINGTHEWORLD

CARGO COMPARTMENT SAFETY

IAN KNOWLES A/C/OPS



CARGO COMPARTMENT SAFETY OUTLINE

- ANNEX 6 CONTEXT
- CHAPTER 15 CARGO COMPARTMENT SAFETY
 - DOC 10102 GUIDANCE FOR SAFE OPERATIONS INVOLVING AEROPLANE CARGO COMPARTMENTS
- COMPLEMENTARY STANDARDS



Annex 6 - Context

Annex 6, Part I

- International Commercial Air Transport Aeroplanes
 - Scheduled international air services and nonscheduled international air transport operations for remuneration or hire





Annex 6 to the Convention on International Civil Aviation

Operation of Aircraft

Part I — International Commercial Air Transport — Aeroplanes Tenth Edition, July 2016



his edition supersades, on 10 November 2014, all previous editions of Part 1 of Annex or information regieting the applicability of the Standards and Recommended factices, use Foreword.

NTERNATIONAL CIVIL AVIATION ORGANIZATION



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RECONNECTINGTHEWORLD

Chapter 15

Cargo compartment safety

- Adopted March 2020
- Applicable November 2020

CHAPTER 15. CARGO COMPARTMENT SAFETY

Note - Guidance on the hazarda accociated with the transport of itema in the curva after rick assessment in accordance with the Safety Management Magual (SMM) (Dec 2037), and the responsibilities for the manaport of dangerous goods, is contained in the Guidance for Safe Operations Involving Cargo Compartments (Doc10102)

18.1 TRANSPORT OF ITEMS IN THE CARGO COMPARTMENT

15.1. The State of the Obserator shall ensure that the obserator establishes polaries and procedures for the transport of stemin the cargo compartment, which include the conduct of a specific safety risk assessment. The risk assessment shall include at lant the

- a) hazards accounted with the properties of the stems to be transported
- b) expabilities of the operator
- c) operational considerations (e.g. area of operations, doversion time):
- capabilities of the secondage and its systems (e.g. cargo compartment fire suppression croabilities)
- a) containment characteristics of unit load devices:
- f) packing and packaging.
- g) safety of the supply class for steps to be transported; and
- b) quantity and distribution of dangerous goods stems to be transported

Note -- Additional operational requirements for the transport of damperous goods are contained in Chapter 14

14 : FIRE PROTECTION

15.2.1 The elements of the cargo compartment(s) fire protection system, as approved by the State of Design or State of Registry, and a summary of the demonstrated cargo compartment fire protection certification standards, shall be provided in the secondary flight manual or other documentation supporting the operation of the secondary

None — Guidance on the elements of cargo compartment fire protection and accordined demonstrated standards are provided in the Guidance for Safe Operations Involving Carno Compariments (Doc 10102).



ELECTRONICOLOGICA

RECONNECTINGTHEWORLD

Chapter 15

• 2 elements:

- Operator risk assessment
- Information from TC/STC holder

CHAPTER 15. CARGO COMPARTMENT SAFETY

Note — Guidance on the hearest excession with the prospert of tensus the samp comparisons, the conduct of a specific splicy risk assessment in accordance with the Safety Management Manual (SMM) (Dec 1939), and the responsibilities for the sampert of desprova: goods, is constanted in the Guidance for Safe Operations. Turobing Cargo Comparisations (Dec1010),

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- c) operational considerations (e.g. area of operations, diversion time);
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Note - Additional operational requirements for the transport of dangerous goods are contained in Chapter 14.

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Note — Guidance on the elements of corps compartment fire presection and accordand demonstrated standards are provided in the Guidance for Sufe Operations Involving Corps Compartments (Doc 10102).



Operator risk assessment

- Originated from lithium battery work
 - Expanded to ALL items
 - Understanding that airworthiness issues not addressed

- Includes cargo, baggage and mail



Operator risk assessment

- Risk from transport of items:
 - Need to consider all hazards
 - Special focus on fire
 - Possibility to overwhelm aircraft fire suppression





Operator risk assessment

Risk assessment basis

- Operations, not individual flight
 - Passenger flight, cargo
- Periodic review



Operator risk assessment

- Risk assessment considerations
 - Elements described in Chapter 15
 - Not intended that operator 'regulate'
 - Mitigations may be identified



Guidance material

- Risk assessment considerations
 - Describes Standards
 - Explains risk assessment process
 - Identifies mitigations





Guidance material

• Example - Supply chain:

- Restrictions on types of cargo
- Obligations/requirements on forwarders

Detection processes





Guidance material

- Example Pax baggage:
 - Batteries, perfume etc.
 - Information to pax

Screening

Staff training, clear guidelines



ICAO

Approved by and published under the authority of the Secretary Deneral.

INTERNATIONAL CIVIL AVIATION ORGANIZATION



Information from TC/STC

- Information on fire protection system
 - Demonstrated certification standards

- Aeroplane flight manual

CHAPTER 15. CARGO COMPARTMENT SAFETY

Note — Guidance on the lacanda accockand with the transport of items in the eargo compartment, the conduct of a specific safety rule assessment in accordance with the Safety Dasagneest Manual (SDM) (Der 815), and the exponsibilities for the manaport of damperus goods, is commond in the Guidans afre Safe Operations Tarviting Carpo Comparisonst (Der 1002).

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New — Guidance on the elements of europ compartment fire protection and accordined demonstrated standards are provided in the Guidance for Safe Operations Involving Compartments (Doc 10102)



Guidance material

- Chapter 6 guidance
 - Classification
 - Details equipment and procedures etc.

	Class A	Class B	Class C	Class D	Class E	Class F
Fire detection	Detection via crew/passenger	Automatic fire (smoke) detection	Automatic fire (smoke) detection	No (automatic) detection except if compartment is ventilated	Automatic fire (smoke) detection	Automatic fire (smoke) detection
Principal crew action	Hand-held fire extinguishing	Hand-held fire extinguishing	Activate fire suppression system	No action unless indication of fire is present	Depressurize and set to a prescribed flight level	Depends on design
Aeroplane fire fighting means	Active fire-fighting via hand-held extinguisher	Active fire-fighting via hand-held extinguisher	Built-in fire suppression system	Isolation	Flight level procedure, reducing oxygen partial pressure	Depends on design
Fire fighting principle	Extinguishing	Extinguishing	Fire suppression via extinguishing agent	Fire containment and oxygen consumption	Oxygen starvation	Depends on design
Post-fire suppression conditions or actions	Monitoring	Monitoring	Suppressed environment until end of flight (see paragraph 6.2.9)	(Small) increase of oxygen partial pressure during descent phase	(Large) increase of oxygen partial pressure during descent phase	Depends on design



Complementary Standards

Annex 8

- Airworthiness
- Amendment 109 (Nov 22)

 Requirement to provide information



International Standards and Recommended Practices

Annex 8 to the Convention on International Civil Aviation

Airworthiness of Aircraft

Twelfth Edition, July 2018



This edition incorporates all amendments and supersedes, on 8 Nevember 2018, all previous editions of Amera 8.

For information regarding the applicability of the Standards and Recommended Practices, site sectors 1.1, 2.1, 2.1 and 4.1 of Part II, and section 1.1 of Parts IIG, HD, NA, MD, VA, VD, VI and VII, and the Foreword.

INTERNATIONAL CIVIL AVIATION ORGANIZATION



Thank You



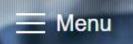
ICAO Annex 6, chapter 15

Mandatory risk assessment on all items carried in an aircraft cargo hold

Ed Boon | Operational Safety & Dangerous Goods Policies KLM Cargo

Arnoud Wink | Manager Border Control & Regulatory Affairs KLM Cargo







Concerns over large PEDs as Checked Baggage

Source: https://www.eurocockpit.be/positions-publications/concerns-over-large-pedschecked-baggage

ION PAPER 31 March 2017

"The new ban on PEDs in the passenger cabin therefore has the potential to create safety risks that could prove to be more harmful tha allowing passengers to carry them a hand baggage."

Safety & Security Concerns over large Personal Electronic Devices as Checked Baggage

NEW RISK CARGO COMPARTMENT SAFETY PROVISIONS PROPOSED FOR ANNEX 6, PART I

Insert following new chapter:

CHAPTER 15. CARGO COMPARTMENT SAFETY

Note.— Guidance on the hazards associated with the transport of items in the cargo compartment, the conduct of a specific safety risk assessment in accordance with the Safety Management Manual (SMM) (Doc 9859), and the responsibilities for the transport of dangerous goods, is contained in the Cargo Compartment Operational Safety Manual [working title] (Doc 10102).

15.1 Transport of items in the cargo compartment

15.1.1 The State of the operator shall ensure that the Operator establishes policy and procedures for the transport of items in the cargo compartment which include the conduct of a specific safety risk assessment. The risk assessment shall include at least the:

- a) hazards associated with the properties of the items to be transported;
- b) capabilities of the operator;
- c) operational considerations (e.g. area of operations, diversion time);
- capabilities of the aeroplane and its systems (e.g. cargo compartment fire suppression capabilities);
- containment characteristics of unit load devices;

f) packing and packaging;

- g) safety of the supply chain for items to be transported; and
- h) quantity and distribution of dangerous goods items to be transported.

Note.— Additional operational requirements for the transport of dangerous goods are contained in Chapter 14.

This is:

Sec.

1 Shipment on AWB (hybrid scenario) In fact:

Multiple shippers

Consolidation without Houseway bills (HWB) No CN avail (that would also be NOT ALLOWED Can be considered co-loading Becomes mail when arrived on dest.

Mail and cargo cannot be interchanged

- Cargo on AWB is a consolidation of 'House' waybills
- The HWB is in this case (in fact) the receptacle
 - Mail is consolidation on recepticle level
 - Receptacle is a consolidation of postal items (of which in general 90% are individual identifiable packages)
 - Consolidatie (Master)
 - Consolidatie (house = receptacle)
 - pieces (missing)

The issue; we don't know what's in the pieces

What keeps you awake at night?

Five compliance commitments:

- We know what we transport
- Catch discrepancies as early as possible.
- ✓ No! ... means NO!
- Prepare for continuous change
- ✓ Integrate & innovate

The duty to investigate



Warsaw Convention 1929 + Montreal Convention 1999

1

- Shipper Responsibilities

 Art. 6: to meet the formalities of customs,
 → police and similar public authorities, shall deliver a document indicating the nature of the cargo.

 Art. 10.1: The Shipper is responsible for the
 → correctness of the particulars and statements relating to the cargo,

Art. 16.1: The shipper must furnish such information and such documents as are
 → necessary to meet the formalities of <u>customs</u>, <u>police</u> and any <u>other public authorities</u> before the cargo can be delivered to the consignee.

Airline Responsibilities

Art. 6. This provision creates for the carrier no duty, obligation or liability resulting therefrom

Art. 16.2 The carrier is under no obligation to enquire into the correctness or sufficiency of such information or documents.

Transit and the transport service providers – victims or facilitators?



Supply chain

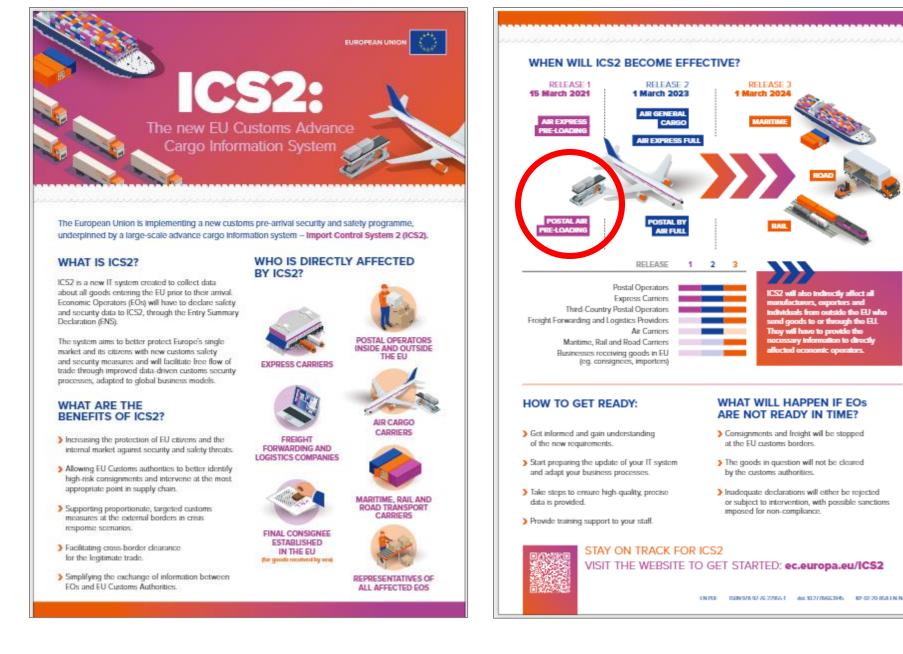
Transport companies are the backbone of global supply chains, carrying our goods around the world. But should they be liable for compliance with export controls when often they are unaware of the true nature of the goods they are carrying, ask Gerard Kreijen and Martin Paimer with reference to recent Dutch enforcement actions.

The duty to investigate

If one contrasts this risk with the developments in international trade – especially the limited transactional

Supply chain

The extensive scope of the applicable regulation in combination with the wilfulness criterion applied by the Dutch court, effectively resulted in a kind of strict liability for TSPs failing to obtain the required licence.



14-apr-2022

ICAO Annex 6, chapter 15 mandatory risk assessment

Major questions remain:

Security

Receptacles need 100% 'Assessment complete' (on piece level) – How is this arranged? Do we (the airline) get the result also?

<u>Safety</u> How do we know what's in the mailbag? How does the DPO assess risk on their customer?

- A fire broke out in the ULD waiting to be loaded on the aircraft in 01JAN2022.
- The ULD built up as only International mail from Korea.

List of mail commodity from investigation

Calendar box set Snack, Sanitary ware, Noodle dried laver, Noodle, Clothes Fashion Hats Book Clothes Book Snack clothes Pants, Shirt, Clothes dress, Iron Laver, Snack, Sunscreen Instant foods, Household medicine, Cushions, Bath supplies, Instant foods Toy, Chocolate, Snack, Seaweed Vest Seaweed, Color cosmetics, Stomach medicine Earphones, Green tea, For electric lighting For anti-droplet, Earphones, Green tea, Jelly, Candy, Postcard cracker, cookie, biscuit, Candy bag Diary Shoes Albums



NO Lithium Battery found at investigation for cause of fire (No evidence left due to burn out)

Risk = Chance x Effect

• What do we take on board?

- How do we know?
- How is this checked?
- How is it enforced?
- How is it communicated?
- How do we regulate it *together*?

Thank you . . .

ELECTRONIC ADVANCE DATA (EAD)

Progress on process

After handover to carrier

Update April 2022

IATA UPU Webinar April 13, 2022

Authors: Wijnand Aalberts – PostNL Bernard Heuzeveldt - KLM





Content of the presentation

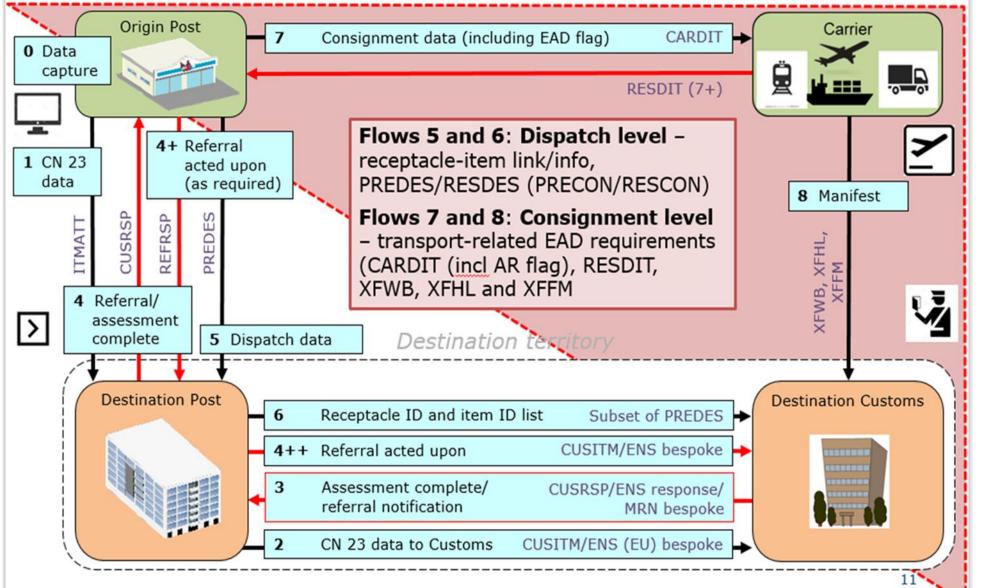
- Background/introduction
- Basis: Global Postal Model
- Happy flow: item still in postal domain
- Referrals (general)
- Protocol in case of <u>late</u> referral (RFI/RFS/DNL)
- Additional information
- Way forward/call to action

Background/introduction

- Several countries or regions are working on introduction of new regulatory electronic advance data (EAD) requirements
- The basics of the EAD-requirements are approved by the International Civil Aviation Organization (ICAO) and the World Customs Organization (WCO) via the Joint WCO–ICAO Guiding Principles for Pre-Loading Advance Cargo Information (PLACI))
- Examples of countries and regions that are working on EAD-requirements are

 United States of America (Air Cargo Advance Screening ACAS)
 Canada (Pre-Loading Air Cargo Targeting PACT)
 European Union (Pre-Loading Advance Cargo Information ICS2 PLACI)
 United Kingdom (Pre-Departure Information for Cargo Targeting PreDICT)
- New regulatory requirements for European Union will become in place I March 2023
- Expectation is that other countries will follow soon

Basis: Global Postal Model

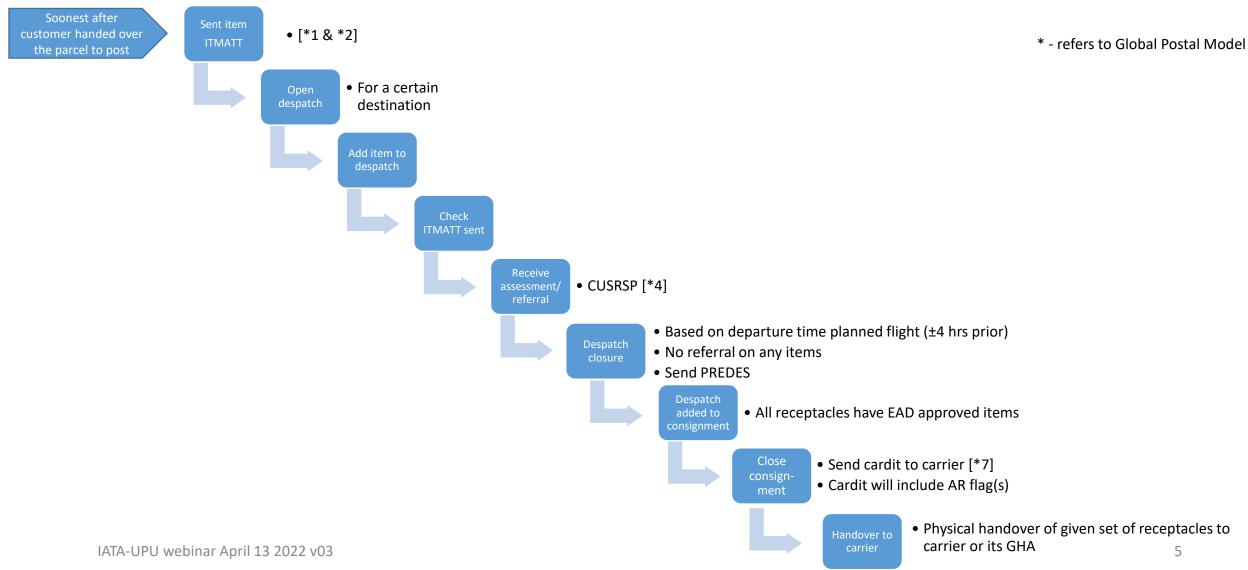


Between origin post, destination post and destination Authority information on item level is exchanged resulting in either an item allowed to be transported or not transported.

When it is not allowed to be transported the item will not be handed over to the carrier.

Note: GPM does not include transshipment /transfer/transit filing yet. This is under development

Happy flow - ITMATT approved – Post domain



Referrals

* - refers to Global Postal Model

- For airmail the Post is responsible as EO (Economic Operator) to file EAD to authority. This is based on mail items. Carrier only files the ICS.
- Referral are responses from authority [*4] that require (direct) attention
- Speedy back and forth communication channel between origin post, destination post and destination authority must exist to answer [*4+, 4] to referrals.
 - No existing (UPU or IATA) messaging between DO and carrier for referrals
- Late referrals are referrals that are received by the origin DO <u>after</u> physical handover to carrier
- When late
 - For these cases there must be an agreed protocol between origin Post and carrier
 - Post and carrier processes must have an exception handling process in place

Referral scenarios

Source: EU guidance on air cargo referral protocols

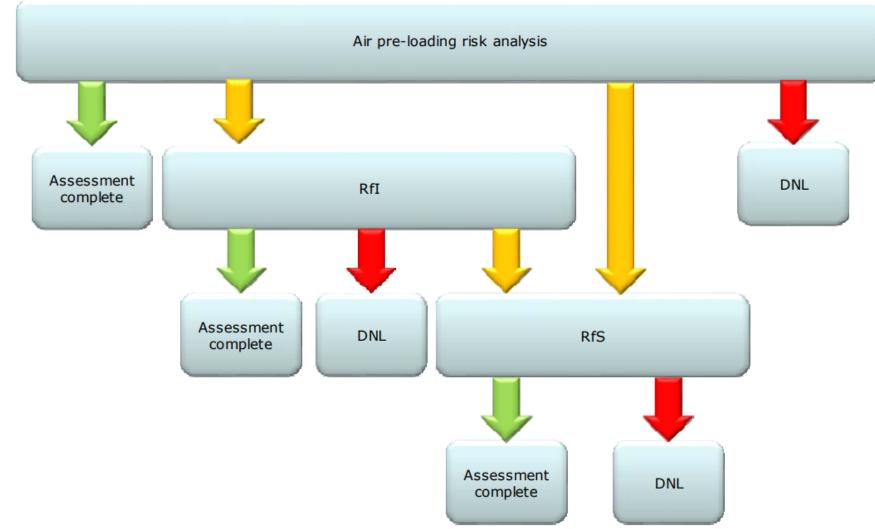
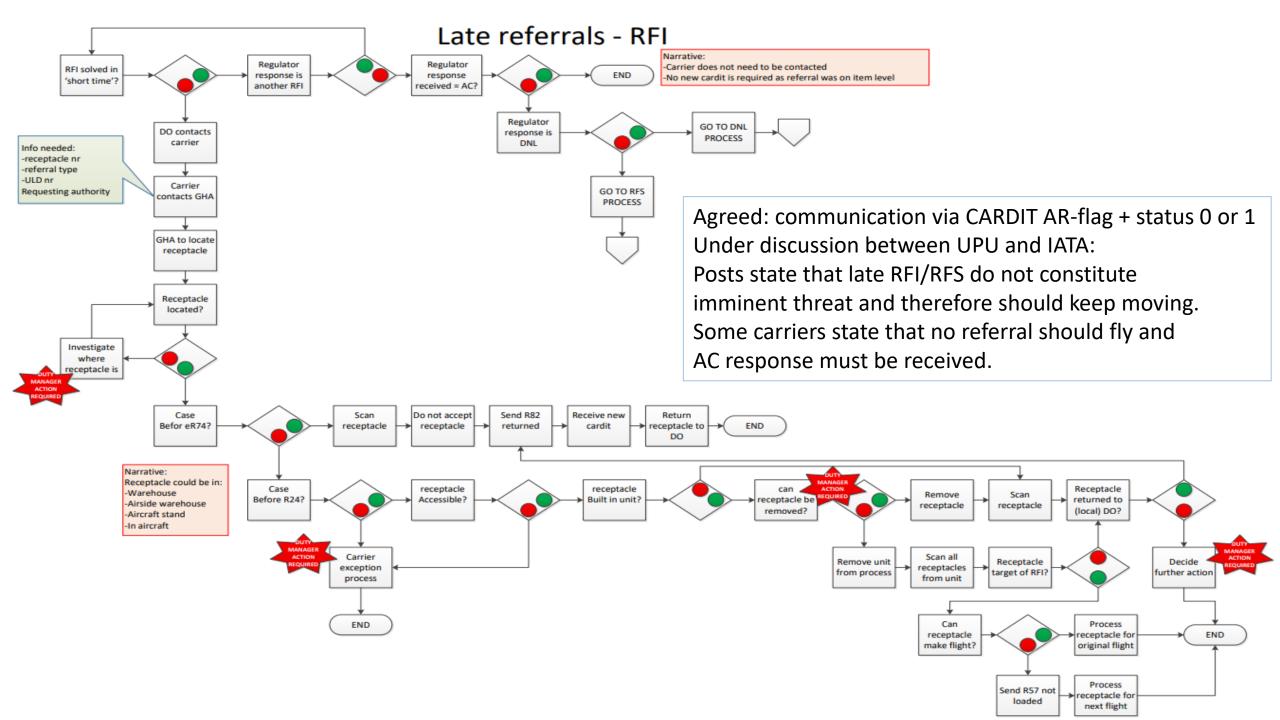
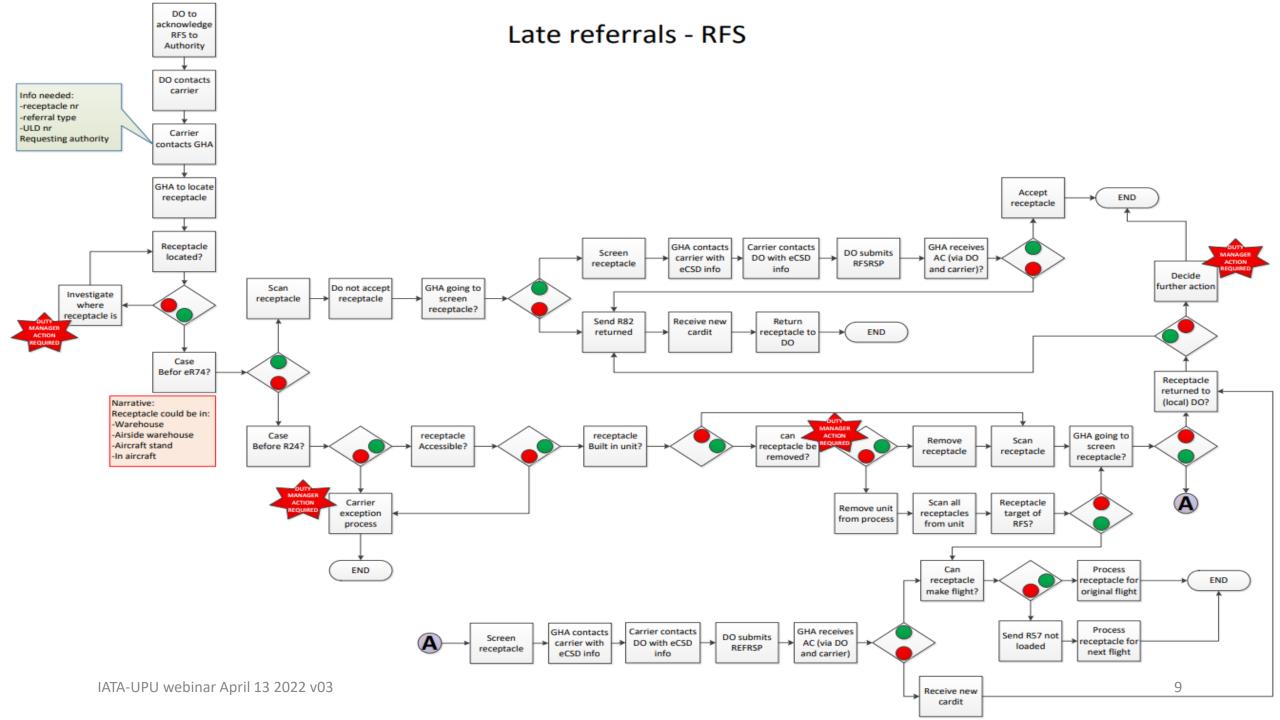
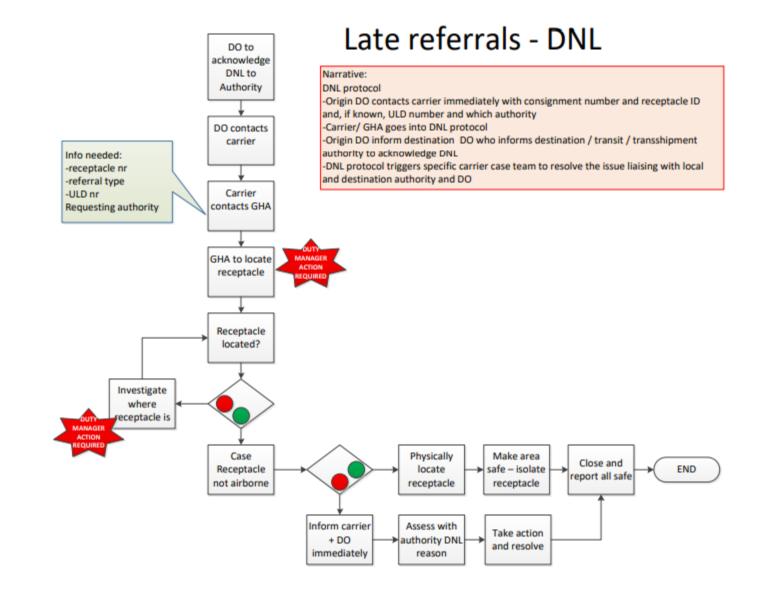


Figure 1: Overview of the referral scenarios







Additional information

- The IATA–UPU expert team on EAD will supplement the protocols with a clear statement on the existing regulations, responsibilities and technical requirements for compliance.
- Also the following relevant information will be included in the documentation regarding the protocols:
 - □ excerpt of the relevant WCO–ICAO principles;
 - □ terminology and definitions of terms;
 - □ Global Postal Model (GPM);
 - □ Framework of a DNL protocol.

Way forward

- The presented procedures can be used as the draft framework to be tailored and fine-tuned locally between airlines, handlers and posts, based on the specific local situation of Posts and airlines
- Some aspects are still under discussion. The EAD-expert team is aiming to have these aspects clarified around summertime, but this is also depending on input from discussions between UPU and European Union
- Any update will be communicated via the regular communication channels of UPU and IATA
- But posts and carriers need to start as soon as possible to prepare and plan to start the work on developing a localized version of the general protocol based on the local situation and the currently available information
- This "call to action" will be included in the final version of the protocols
- Last but not least: the localized protocols need to be authorized by the relevant local security authority as this triangular protocol (post-airline-security authority) is key to achieving compliancy with the security levels required by the EAD-enforcing countries

Thank you for your attention



Electronic Advanced Data (EAD)

IATA-UPU Webinar (13 April 2022)

Luc Larrieu-Sans, Leg-2.com Stéphane Herrmann, UPU

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EAD Check allows **designated operators and carriers** to check that the mail they are sending, receiving or processing in open transit, closed transit or transshipment complies with the EAD requirements.

The UPU's Postal Technology Center has developed API methods in QCS Big Data to allow retrieving the EAD status for individual mail items, and for all mail items within a receptacle.

The API methods can be called by any IT system used by designated operators and carriers.







The API request sent to CDS/QCS Big Data allows specifying either

- a S10 mail item identifier or
- a S9 receptacles identifier

The **API response** from CDS/QCS Big Data returns for each mail item in the request:

- Item identifier
- Whether or not an ITMATT was sent for the item
- List of referrals (ITMREF messages) of type RFI, RFS or DNL for the item.

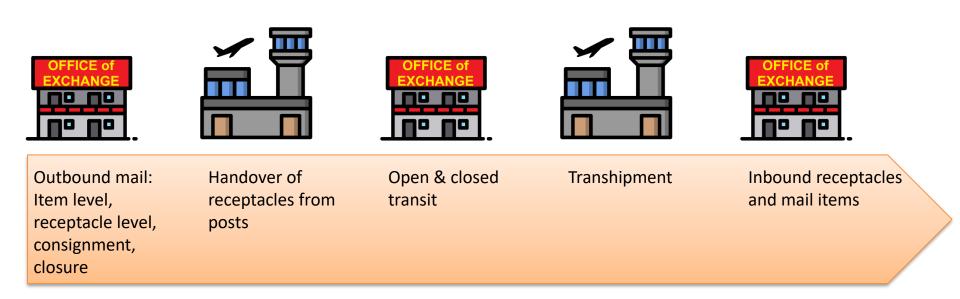
For each referral:

- Referral type
- Whether it was responded or not (i.e. if a REFRSP message was sent, linked to the ITMREF)

Support of ASC to be implemented in 2022







- EAD Check provides the status of individual mail items
- The status is not included in any EDI messages





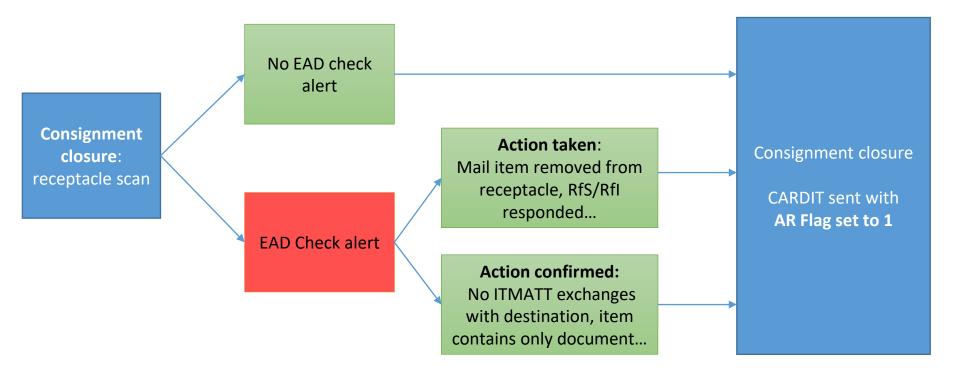






EAD Check will help designated operators assess whether an action should be taken before closing the consignment

Implementation of AR Flag in IPS/IPS.post/IPS Cloud:









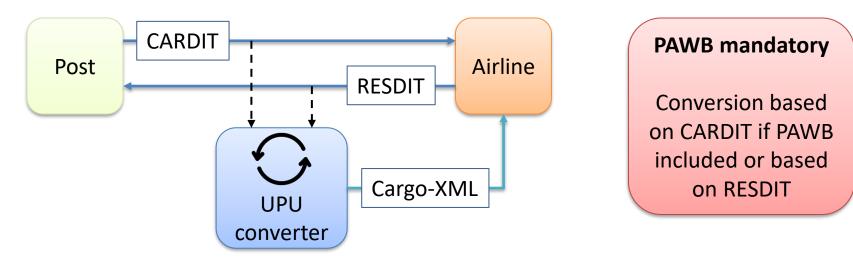


CARDIT/RESDIT to Cargo-XML converter

UPU has developed a tool to convert CARDIT-RESDIT messages into Cargo-XML messages.

Airlines that do not have the ability to perform the conversion can request the UPU to perform the conversion and make the Cargo-XML messages available through APIs.

If airlines are interested in testing, please contact UPU.



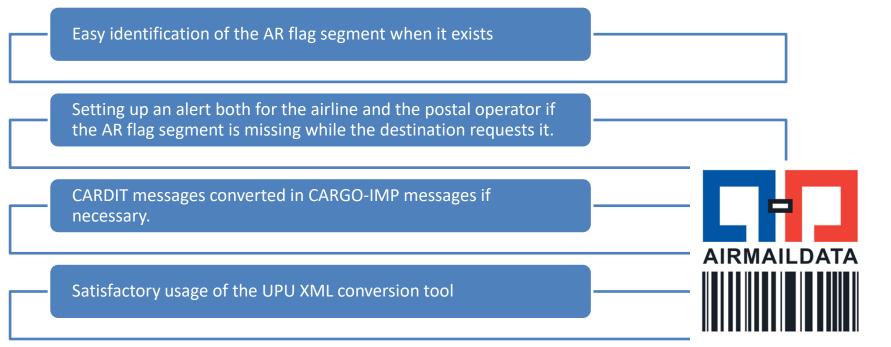


SHARING EXPERIENCE



Leg-2.com has helped some non EU postal operators to implement CARDIT / RESDIT exchanges with the Airmail Data application.

Several tests have been conducted in the first quarter of 2022.





Thank you!

Luc Larrieu-Sans Founder & CEO Leg-2.com Iuc@leg-2.com Stéphane Herrmann Lead Technical Account Manager, UPU stephane.herrmann@upu.int

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e-Commerce

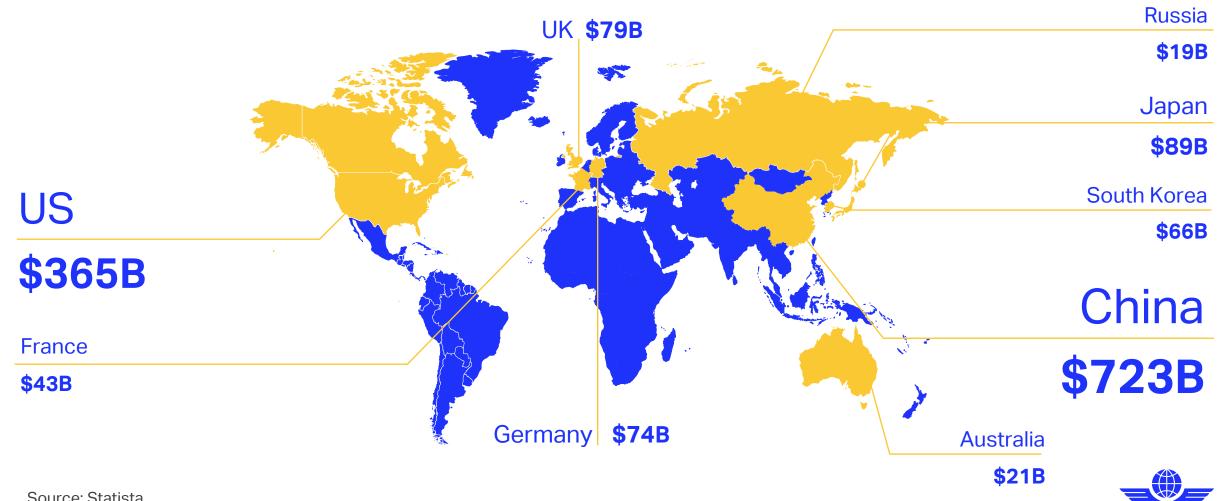
Andre Majeres

19 April 2022

Head of E-Commerce & Cargo Operations majeresa@iata.org



E-Commerce Global Distribution - 2019

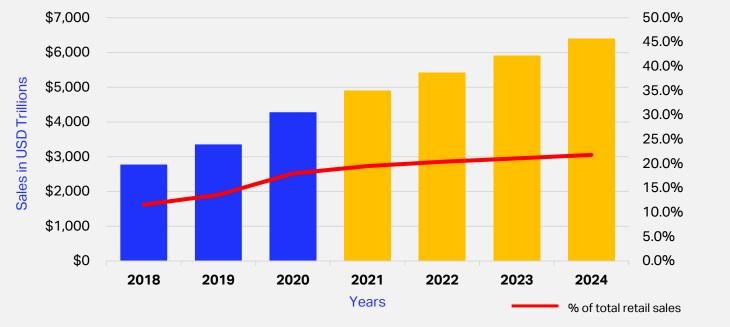


Source: Statista

* Figures currently including services, already identified source for potentially excluding services, at sales levels, potential to include share of the top-50 players by country

Consumer behavior changed in 2020

Worldwide E-Commerce reached \$5 Trillion in 2021

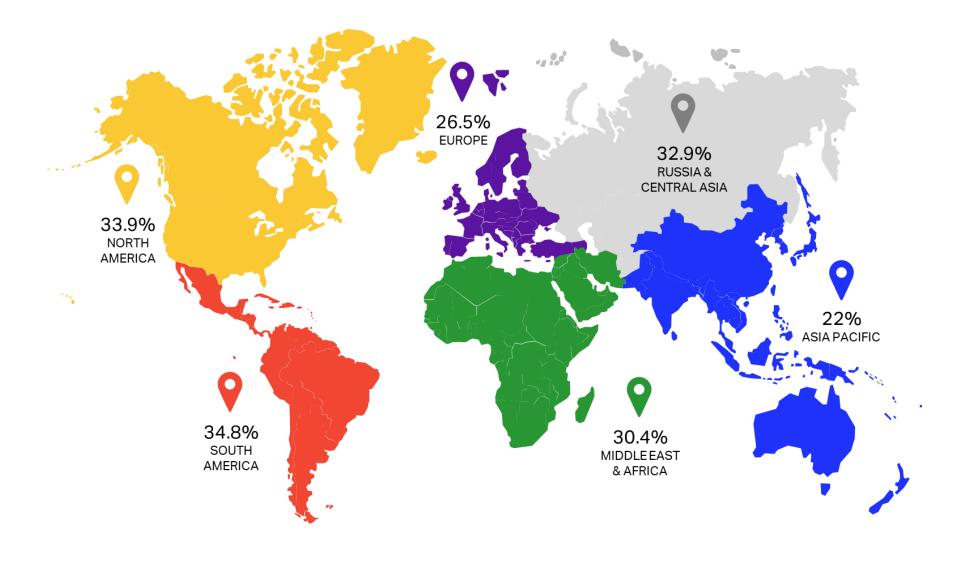


Retail E-Commerce Sales Worldwide

Source: https://www.emarketer.com/; https://www.freightwaves.com



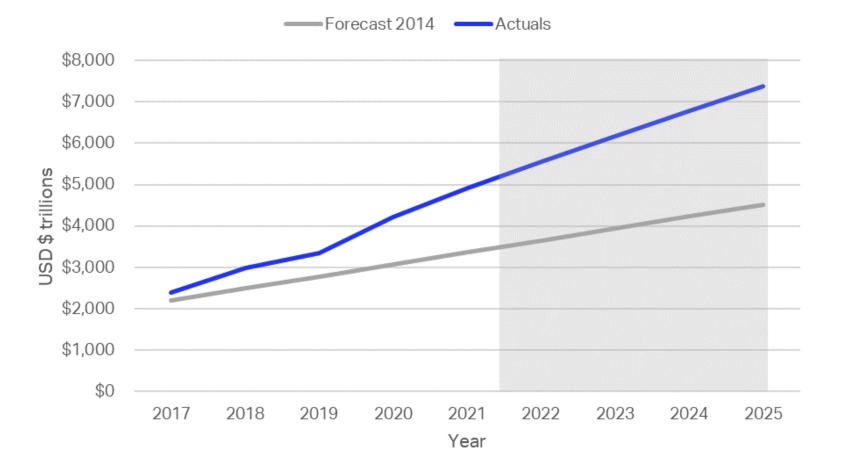
E-Commerce - Volume growth - 2021





Forecasts have underestimated e-Commerce

Global E-Commerce Sales 2017-2025



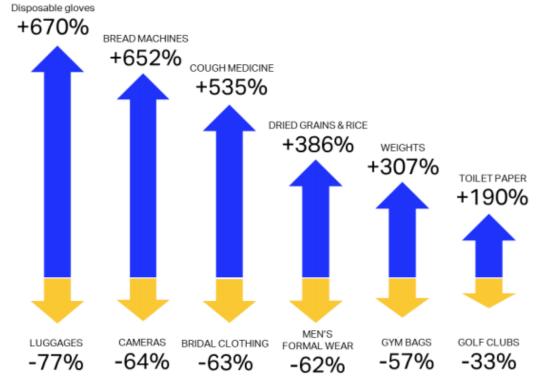


Consumer behavior during the pandemic



In 2021, online buyers predicted to reach 2.14 billion

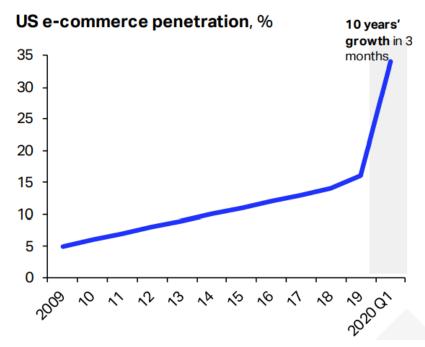
Shift in consumer priorities due to COVID-19





Anchored trend or addiction ?

E-commerce moved 10 years in 90 days

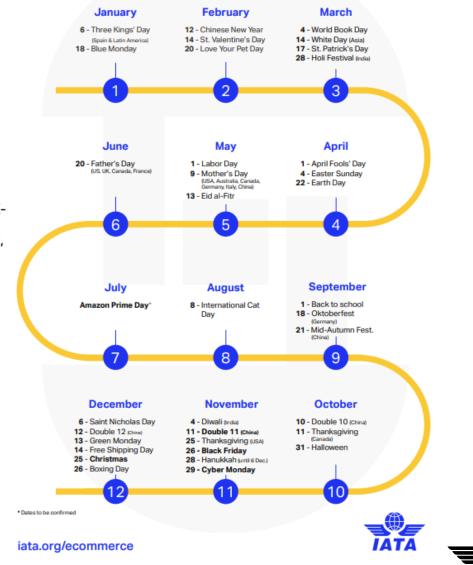


According to McKinsey & Co*, "Ecommerce has moved **10 years ahead in just 90 days**." However, there has also been a decrease of 60% in postal parcels sent, due to lack of capacity.



Drop in postal parcels

e-Commerce Events 2021

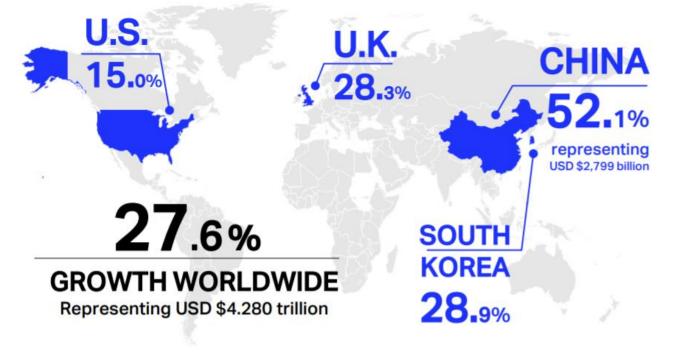


One year after the beginning of the pandemic

Thanks to the global roll-out of vaccinations, consumers are slowly returning to brickand-mortar stores, supermarkets, restaurants, and cultural events.

But even if we can already start to feel like we are returning to a sense of normalcy, the transition will take time.

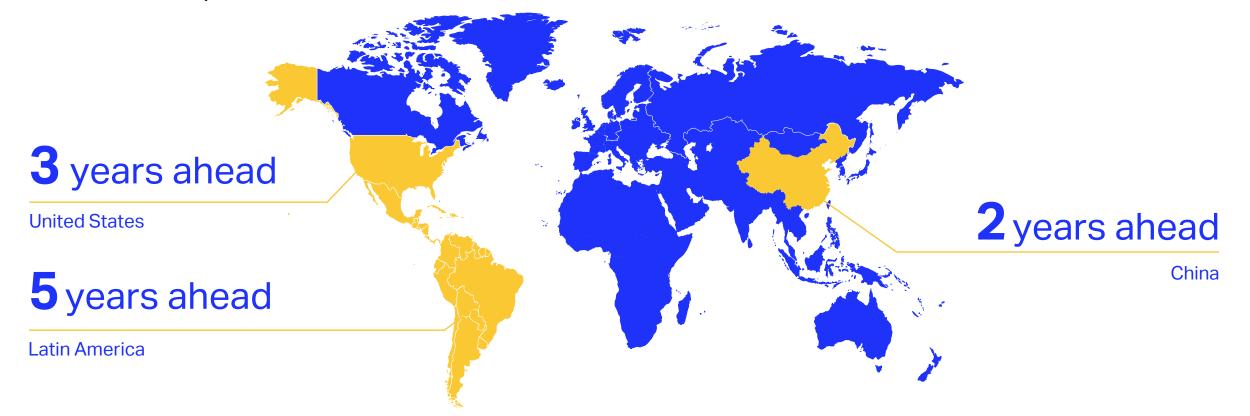
Total online retail sales 2021





Pandemic Period e-Commerce Growth

COVID-19 has grown E-Commerce exponentially across the world, especially in the U.S., Latin America, Europe and China





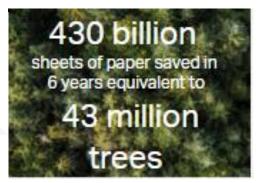
A few numbers... from the giants

Alibaba - 84.5 Bn\$

JD - 48.7 Bn\$



More than 80% of 11.11 orders were predicted by Cainiao's AI algorithm based on shopper's behavior.



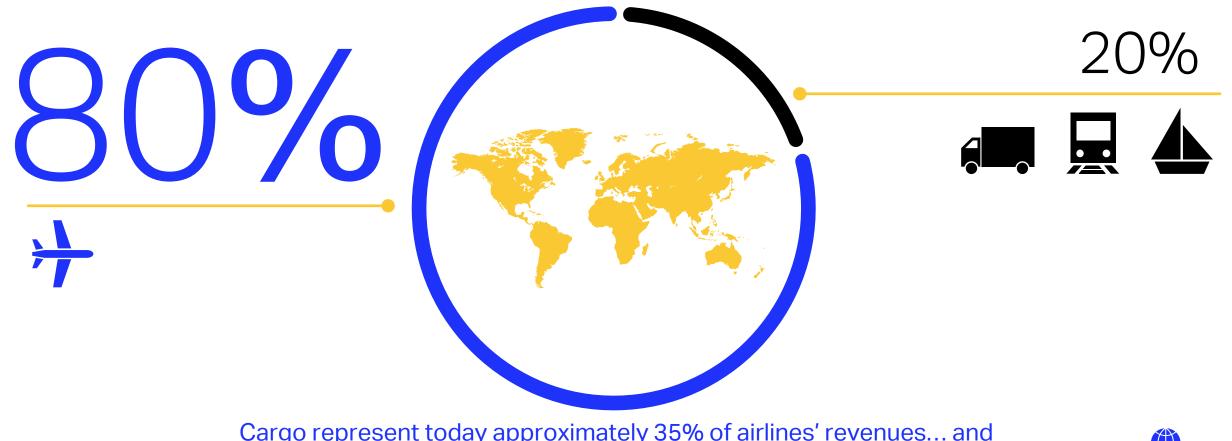
127.5 billion packages | 2025

equivalent to a carbon footprint of 116 million tons

86 Million Meters of plastic tape were saved due to the use of 190,000 zipper boxes during 11.11.2020



Cross-border B2C e-Commerce



Cargo represent today approximately 35% of airlines' revenues... and approximately 18-20% of air cargo is eCommerce, forecasted to be 22% in 2022.



The e-Commerce Logistics Landscape

The COVID-19 crisis has accelerated the expansion of e-Commerce towards new companies, customers, and product types.

The pandemic has added diversity in a sector that was already very dynamic, with many different players, big and small, and various business models





Air cargo models & e-tailers

Owned and fully dedicated air transport capabilities

Firms reduce their dependence on 3rd party carriers, limiting risks and increasing margins.

Air freight shippers

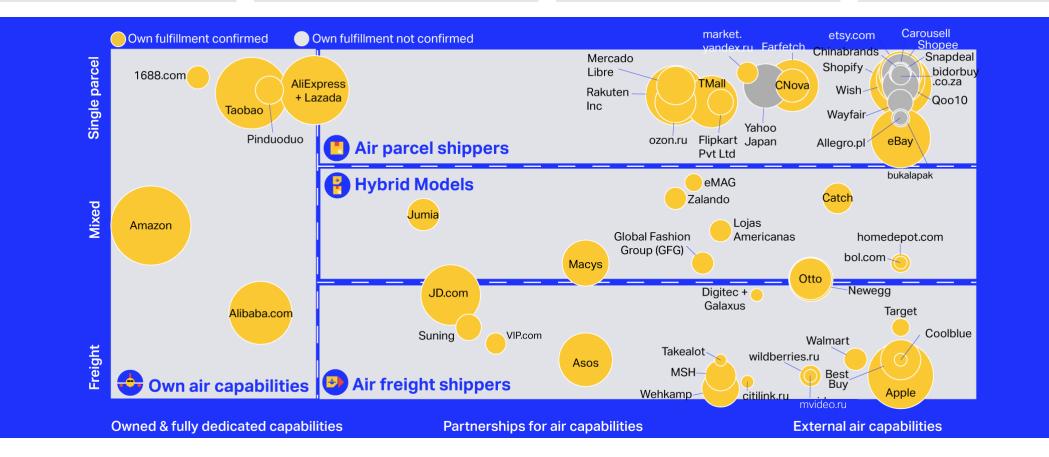
Companies move the goods to fulfillment centers in freight format and perform local ground distribution in the destination country

Hybrid model

Mixed-use of internal and external capabilities to move freight to fulfillment centers, and also shipping of single parcels to consumers via air cargo

Air parcel shippers

Firms rely on standard Courier-Express-Parcel & airmail. It is common for marketplaces due to their high dispatch fragmentation

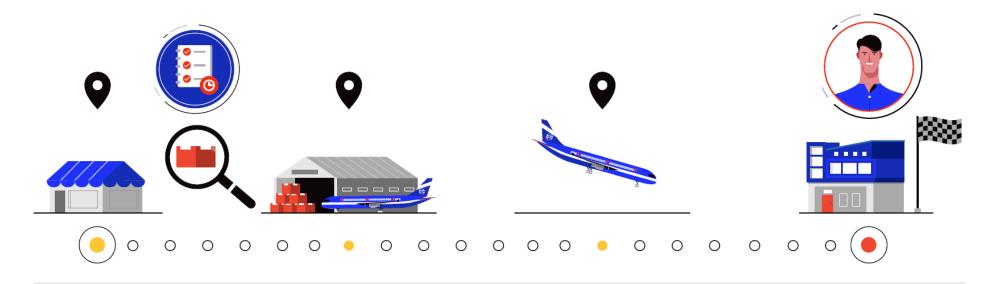


Five strategies for transformation





Transform to build a robust air cargo



COVID-19 has accelerated e-commerce penetration and solidified the shift in consumer behavior.

e-commerce is key for industry prosperity/survival carriers need to address existing pain points through the 5 strategies in order to adapt to etailers needs



19 April 2022

CONTACT & SUPPORT

POLICY PUBLICATIONS SERVICES

TRAINING EVENTS PRESS

Cargo > Cargo Operations > E-Commerce & Logistics

E-Commerce & Logistics

E-Commerce has revolutionized the way we do logistics. With online businesses and consumers requesting fast deliveries, operating models had to evolve to speed up transportation

Air cargo is naturally suited for this logistic challenge. IATA estimates that e-commerce represented 15% of air cargo volumes in 2019. This number is continuously growing, and the trend has accelerated during the COVID-19 pandemic. IATA helps the air cargo industry to capitalize on the growth of e-commerce.

- Read the June 2021 IATA e-Commerce Monitor (pdf)
- Read the March 2021 IATA e-Commerce Monitor (pdf)
- Read the December 2020 IATA e-Commerce Monitor (pdf) 0
 - TRANSFORMATION | IATA PROGRAMS VISION

Air cargo serving e-commerce

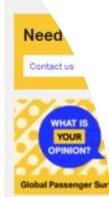
Air cargo is an essential component of cross-border e-commerce. IATA works to advise the industry and enhance their understanding of the opportunities and challenges that exist. IATA also ensures the air cargo industry has the right regulations, standards, and global framework to offer the right logistics solutions for the e-commerce industry.

e-Commerce Insights

- Cross-Border Strategies for Online Retailers (pdf) June 2021
- e-Commerce Strategies for Air Cargo Airlines (pdf) February 2021
- The e-Commerce Logistics Landscape (pdf) December 2020
- The e-Commerce Impact in Air Cargo Operations (pdf) November 2020
- Air Cargo e-Commerce & COVID-19 Impact (pdf) October 2020

19 impact

mic has changed the world. The ban on social gatherings, the closing of # centers, theatres and concerts have led consumers to P hehavioral change towards online -



Sign up to the E-Commerce Monitor

Related Li



Ja Gooda (HAZMAT) intelle al Caroo oo Border Manaberrier rgo Operations THE Source mart Facility Operational ommerce & Logistics **ealthcare**

resources >

 \sim

Now air cargo is key to e-Commerce

Before the

pandemic, e-

Commerce was key

to air cargo...

19 April 2022 16

Thank you

More information, insight articles and the IATA e-Commerce Monitor are available at <u>www.iata.org/ecommerce</u>

Andre Majeres

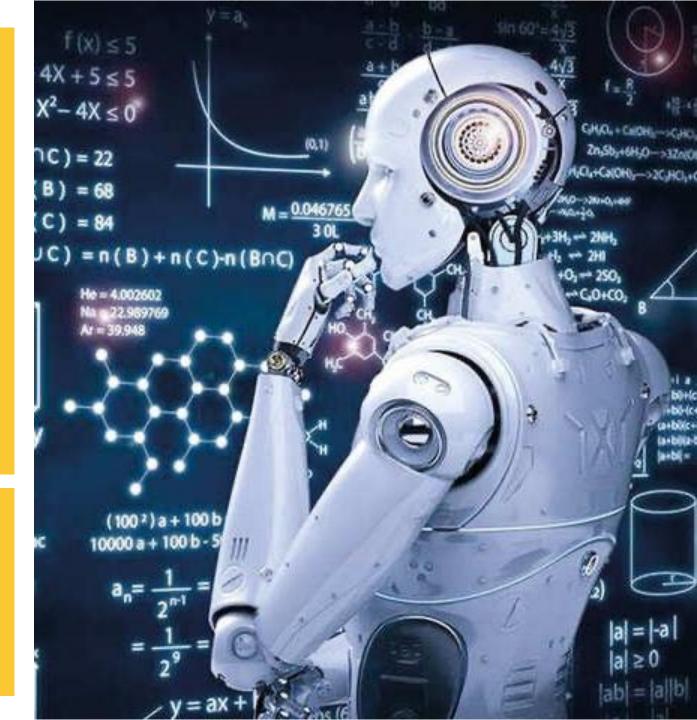
Head of E-Commerce & Cargo Operations <u>majeresa@iata.org</u>





E-Commerce digitalization & IATA

Henk Mulder Head, Digital Cargo IATA



Why digitalization of air cargo? Why now?

By 2025: 24.3% of the global economy is digital (vs 15.5 % in 2016)¹



1) Oxford Economics



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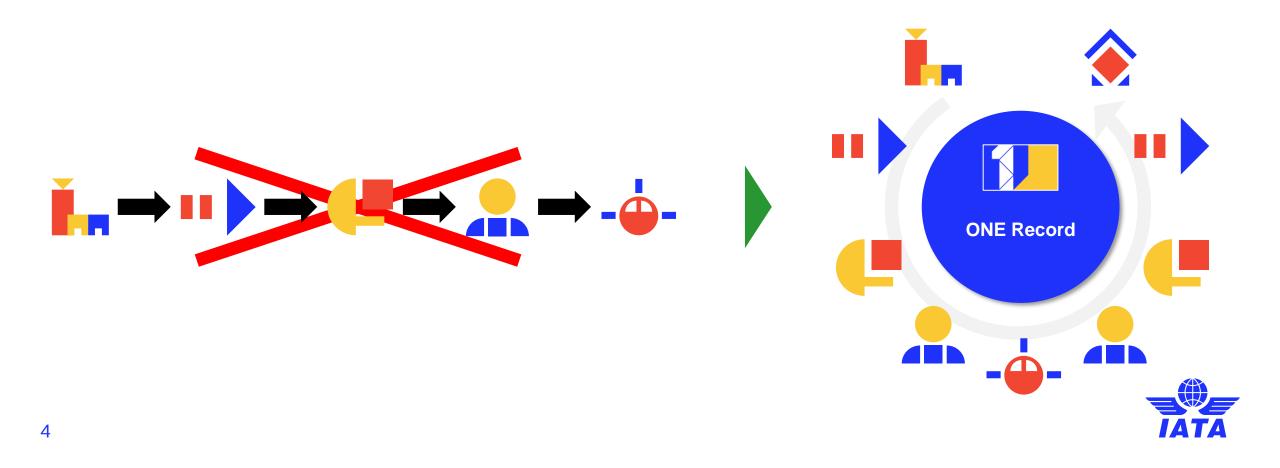
Digital needs for e-Commerce

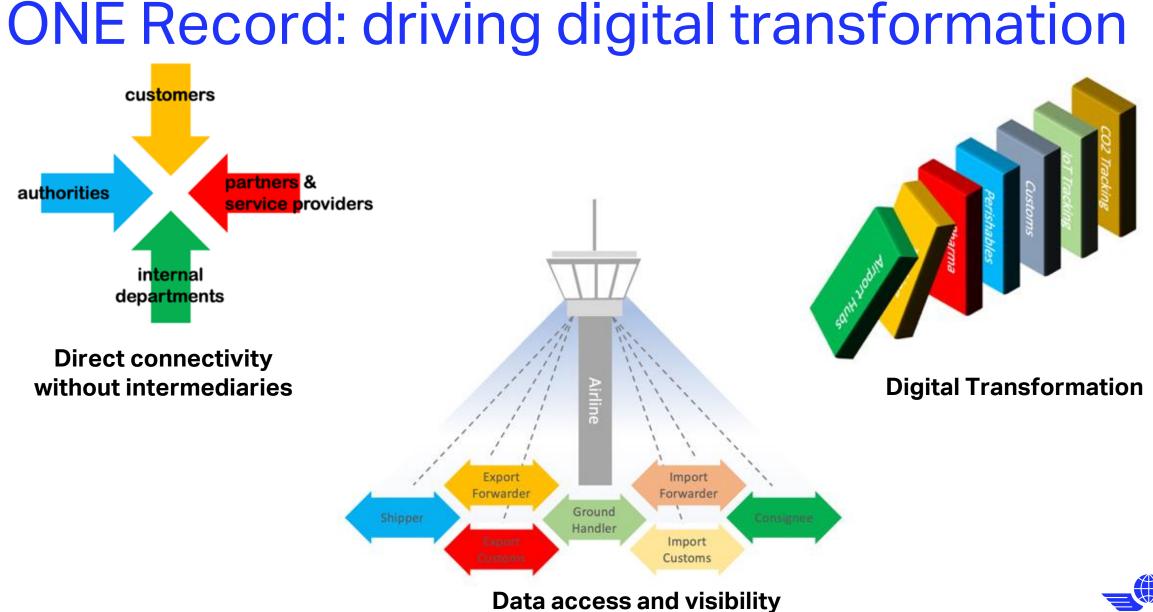
Visibility	Trackable	Fast	Shared data	End-to-End
• Real time issue detection and management	 Customer process transparency and predictability 	• Avoid data lag. No time to "look for data"	 Access to heterogeneous and shared supply chain and logistics 	• Shipper to consignee and multimodal



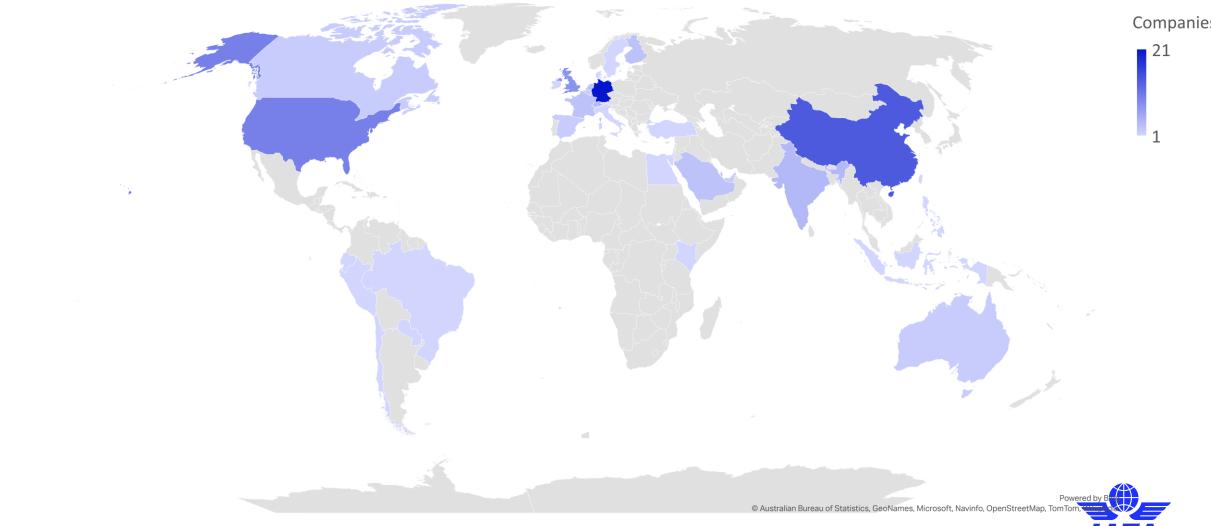
Information exchange in air cargo

- From sequential messaging to data sharing
- From airline-forwardeer to end-to-end and multimodal



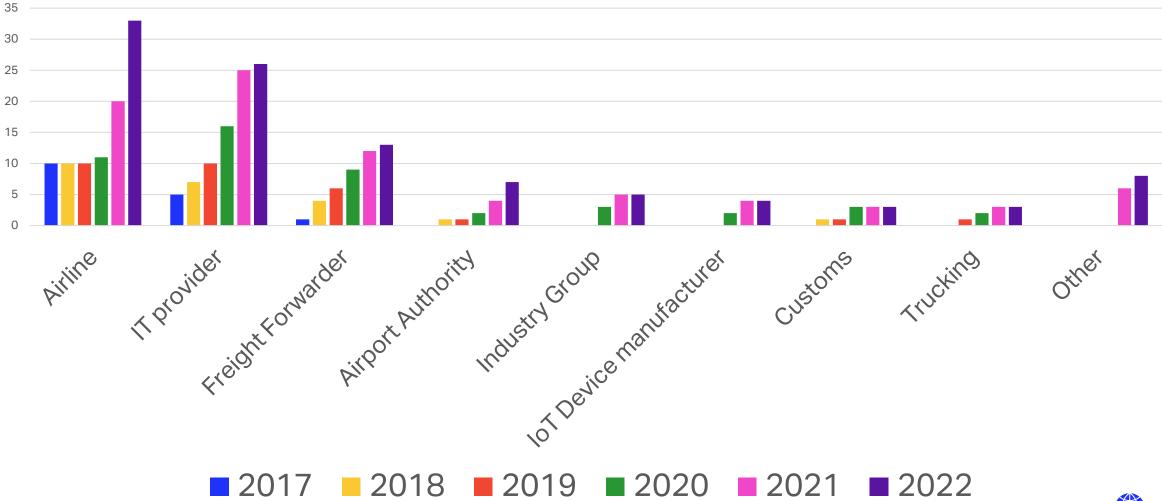


ONE Record global deployment



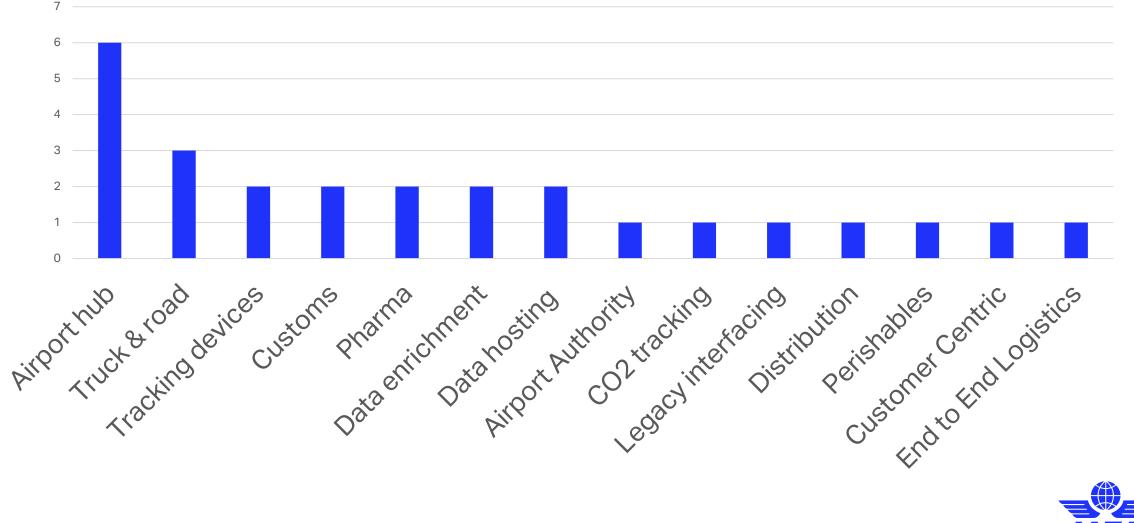


ONE Record stakeholder group by year





ONE Record use cases



Cooperation is the opportunity

e-Commerce is a global

e-Commerce uses most transport modes

e-Commerce uses most logistics channels

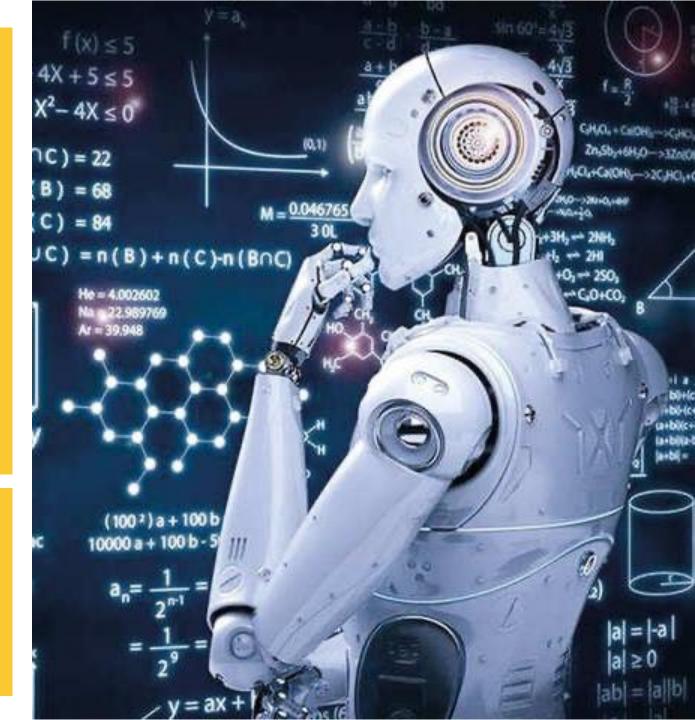
e-Commerce accesses many types of shippers, small & large

e-Commerce accesses many customer segments



Thank you

Henk Mulder Head, Digital Cargo IATA



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Paper-free transports

Webinar 13-04-2022





Paper-free transports



- The number of EDI messages and the quality of them have increased over the years
- Both Posts and Carriers wish to improve our common processes using EDI
- Paper-free transports is one of the topics we are working on
- Paper-free transports started as an activity within Engage. Now it is a global activity
- At the latest meeting in the UPU transport group an updated guideline for creating paper free transports was presented.

postnord

Guidelines



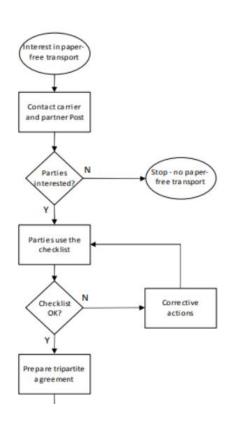


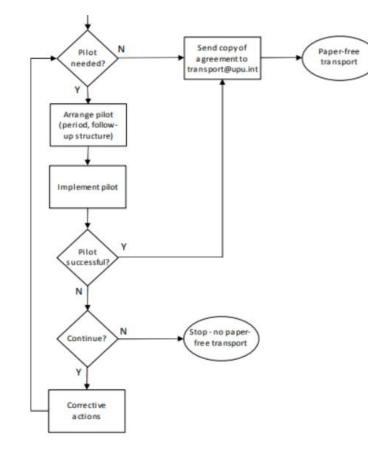
The Guidelines includes

- Background information
- Preconditions for paper-free transport
- Minimum requirements
- Scope of implementation
- Preparation and communication
- Paper-free operational and messaging procedures
- Checklist for implementing paper-free transports
- Template for Tripartite agreement
- Description of available tools

Paper-free transports - process

19-04-2022





4

postnord

Paper-free transport



IATA UPU Contact committee decided to create a database with contacts to Posts and Carriers that are ready to implement Paper-free transports

For further information please contact Jan Bojnansky, email: jan.bojnansky@upu.int

Hector Martin Arias, email: <u>hector.martinarias@ipc.be</u>

postnord

Questions?



