

IATA
GLOBAL
MEDIA DAY

#IATAGMD

Air Cargo

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Digitalization is an air cargo industry priority



Digitalization

Move from the legacy messaging standard that is 50 years old to a data-sharing approach based on web APIs



Sustainability

Support industry Net Zero commitments, increase efficiency and reduce waste in air cargo operations



Safety & Security

Securing and facilitating cross-border movements



- Together with our members we have set 3 industry priorities and digitalization is one that will help us deliver on the others.
- The priority is to move from the legacy messaging standard that is 50 years old to a data sharing approach based on web APIs, which is a huge transformation journey for the industry.
- We call these standards collectively the IATA ONE Record standard.

ONE Record is the Key

- Provides a Common Global Data Model
- Improves communication across the supply chain
- Improves visibility and transparency
- Enhances quality and control
- Facilitates easier connections
- Future-Ready Digital Cargo



One Record delivers ...

- **Global Data Model:** Establishes a common data structure facilitating seamless integration across various platforms.
- **Improved Communication:** It provides a standard way for businesses to share data, reducing misunderstandings and delays.
- **Improved Visibility and Transparency:** Offers end-to-end visibility of shipments, enhancing transparency throughout the transportation chain.
- **Enhanced Data Quality and Control:** Enables data owners to maintain control over data quality and access permissions, ensuring data integrity.
- **Easier Connections:** Facilitates direct connectivity between industry stakeholders through web APIs, promoting innovative IT solutions.

ONE Record only works if it's implemented

Pilot Programs	• 200+ companies
Early adopters	• 10 advanced adopters
Government involvement	• EU, UN, US, China, other governments
Hackathons	• 10 hackathons, 800 experts, 100 projects
Multimodal cooperation	• All airfreight is multimodal
Industry wide adoption	• 1 January 2026
Solution providers	• 80% of solution providers committed
Open Source	• Drive cooperation and resources



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- We have now over 200 companies involved in pilot projects, with 10 of those scaling to operational initiatives.



Examples of ONE Record in action



Cathay Cargo, Airport Authority Hong Kong and IATA achieved a world-first ONE Record shipment from Dongguan for export from Hong Kong



Shipment record shared among all the stakeholders based on ONE Record, including shipment details, security status, progress status, providing full visibility and transparency on the multi modal cargo journey.



Greater Bay Area (GBA)



Cathay Cargo Terminal Dongguan



Hong Kong International Airport



Bangkok



Manila



Tokyo



Challenges:

- Managing data consistency and visibility in multimodal cargo shipments, where different modes of transport often operate in silos.
- Inefficient communication and lack of unified data sharing across stakeholders in air, road, and other modes of transport.

Achievements:

- Successfully implemented ONE Record to share the same shipment data across all stakeholders involved in the multimodal journey.
- Unified shipment records provided consistent details, including shipment information, security status, and progress milestones, regardless of the mode of transport.
- This marks a first-of-its-kind achievement in the industry, demonstrating the feasibility and value of a unified data-sharing standard across multiple transport modes.

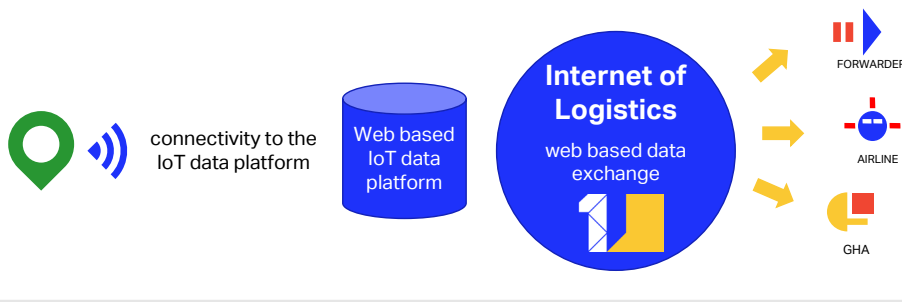
Impact:

- **Operational Excellence:** Reduced redundancies and inconsistencies by ensuring all stakeholders, regardless of transport mode, worked from the same data set. Improved coordination and efficiency across the multimodal supply chain.
- **Customer Satisfaction:** Delivered unparalleled transparency and visibility to shippers and customers, enhancing trust in multimodal transport services.

Cathay Cargo, Dimerco Air Forwarders and GLS Hong Kong partnered to transport semi-conductor thermal paste and monitor the condition of the shipment using a cargo tracking device and real time data sharing via the ONE Record API.



Dimerco was able to access and monitor data from CX IoT technology – i.e., shipment milestones and conditions, such as GPS location, temperature, humidity in near-real-time.



Challenges:

- Monitoring the condition of high-value or sensitive shipments like semiconductor thermal paste during transport.
- Providing real-time updates on shipment milestones and environmental conditions.

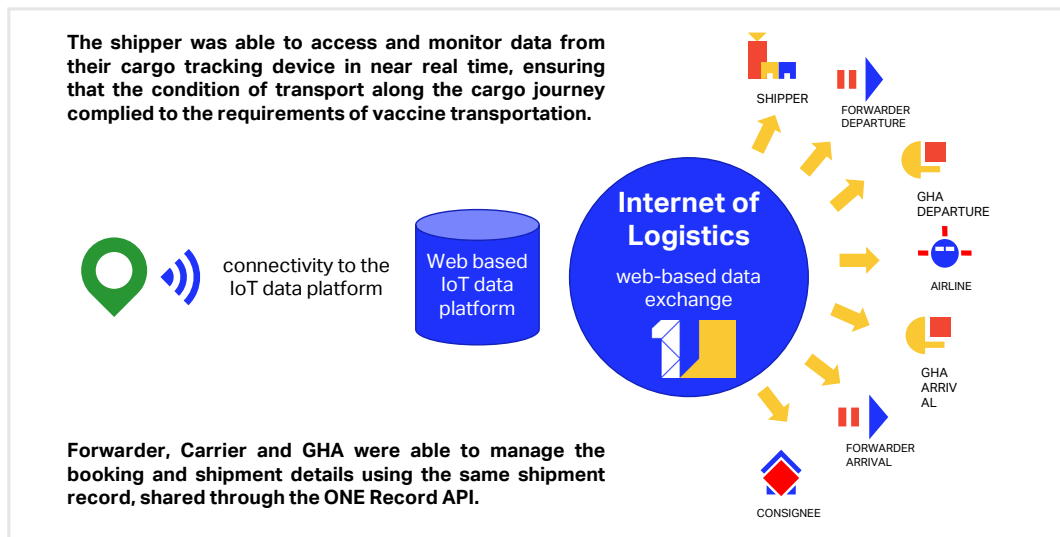
Achievements:

- Successfully used ONE Record API to integrate data from Cathay Cargo's IoT technology, enabling real-time tracking of shipment conditions (temperature, humidity, GPS location).
- Dimerco accessed and monitored near-real-time data, ensuring shipment conditions met specified requirements.

Impact:

- **Operational Excellence:** Improved monitoring and proactive management of shipment conditions, minimizing risks of damage.
- **Customer Satisfaction:** Built confidence in the service by ensuring consistent quality and visibility throughout the shipment journey.

Anonymous carrier leveraged on ONE Record data sharing standard to get more visibility and transparency for the transport of temperature-sensitive products (vaccines), including real-time data from cargo tracking devices.



Challenges:

- Ensuring strict compliance with temperature control requirements for vaccines during transport.
- Lack of transparency and coordination among stakeholders managing shipment details and milestones.
- Reliance on paper documents, which are prone to errors and inefficiencies.

Achievements:

- Successfully leveraged the ONE Record standard to eliminate the need for paper documents by replacing them with a digital shipment record accessible to all stakeholders.
- Enabled seamless sharing of shipment records among the shipper, forwarder, carrier, and ground handling agents, ensuring that all parties accessed and worked from the same digital data set.
- Provided the shipper with real-time monitoring of critical shipment data, including GPS location and temperature, ensuring compliance with vaccine transport requirements.

Impact:

- **Operational Excellence:** Eliminated inefficiencies and errors associated with paper-based processes, streamlining operations and reducing manual workload. Improved synchronization and transparency across all parties involved.
- **Customer Satisfaction:** Enhanced confidence in the shipment process by ensuring visibility, compliance, and data accuracy throughout the journey.

Digitalization Leadership Charter



Developing a unified and collaborative digital strategy

Ensure interoperability and the use of standards like ONE Record across the entire supply chain.



Enhancing organizational resilience

Building cybersecure infrastructure and responsible use of AI.



Pursuing sustainable digitalization

Focus on supporting eco-friendly technology initiatives.



Pursuing digital excellence

Tracking and staying ahead of digital trends



Using new technology ethically

Embracing emerging technologies responsibly.

Setting new standards for innovation and growth



- In 2023 the Cargo Advisory Council wanted to see what other methods we could use to accelerate digitalization in the industry and highlight the importance of data-sharing.
- We developed the charter concept with 5 guiding principles and a focus on alignment of stakeholders and harmonization.
- Launched at WCS 2024 with 5 signatories

Charter signatories



- We are now approaching 20 with more to come before the end of the year.
- The charter signatories are meeting twice yearly, to discuss ways and opportunities for stakeholder cooperation to further enhance digitalization of the air cargo industry

North Asia Digital Cargo Alliance



- In China, the North Asia Digital Cargo Alliance, is also leveraging the ONE Record Living Labs and leadership in digitalization in North Asia.

IATA Air Cargo Device Assessment

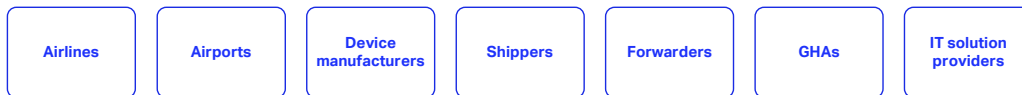
PURPOSE

- Streamline & expedite the approval process of air cargo tracking devices & data loggers
- Compliance with the IATA Recommended Practice 1693 Device Approval for Air Cargo

VALUE ADDED



BENEFICIARIES



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- The IATA Air Cargo Device Assessment is a validation program designed to streamline and expedite the approval process for manufacturers of air cargo tracking devices and data loggers.
- The assessment ensures that these devices comply with the IATA Recommended Practice 1693, which includes guidelines for device approval related to electromagnetic compatibility and battery safety.
- This is crucial for maintaining the safety and efficiency of air cargo operations.

N.B. This assessment is not substituting airline approval for device use on board.

Value added for the industry

- **Efficiency:** Streamlines the device approval process
- **Safety:** Enhances safety by reducing risks from unauthorized devices
- **Standardization:** Promotes uniform safety practices across the air cargo industry

LivingPackets Group, a provider of smart, secure, and reusable packaging solutions, has become the first organization to achieve IATA air cargo device assessment for its packaging shipping solution THE BOX.



Planes carry planes

Air Cargo makes it happen.
Every plane has been flown 100,000+ kilometers, and air cargo transports those planes safely.

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Your best friend travels first class

Air Cargo makes it happen.
Over 2 million pets and other live animals are transported by air every year in the United States. Cargo services make it safe for pets to travel happily, wherever you take them.

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Immunization saves lives

Air Cargo makes it happen.
Over 100 million doses of vaccines are shipped by air every year. Air cargo offers transport to places that don't have a road, ocean or air transportation route. It's the only way to get vaccines to where they're needed most.

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Diamonds are cargo's best friend!

Air Cargo makes it happen.
Over 100 million diamonds are shipped by air every year. Air cargo offers transport to places that don't have a road, ocean or air transportation route. It's the only way to get diamonds to where they're needed most.

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Planes carry vaccines to protect against COVID-19

Air Cargo makes it happen.
More than 2.5 billion people worldwide have received a COVID-19 vaccine. Over 100 million doses of the world population. COVID-19 has shipped over 310 million COVID-19 vaccines by air.

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One-click, one-world
Reshaping a sustainable future

Air Cargo makes it happen.
COVID-19 has brought about a shift in consumer behavior to more sustainable packaging. The E-commerce packaging market was valued at \$7.14 billion in 2020 and is expected to reach \$61.56 billion by 2025. 72% of consumers would prefer sustainable packaging.

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