

Digitalization in Air Cargo		
	Cargo trends	Impact of digitalization
	E-Commerce Growth	 Digital tools streamline logistics for surging e-commerce demands
	Sustainability Focus	 Analytics and digital efficiencies drive sustainable air cargo practices
	Capacity Fluctuations	 Predictive tech stabilizes rates, enhances supply chain adaptability
	Technology Integration	 Al, loT, cloud innovate for transparent, efficient logistics operations

E-Commerce Growth:

- Surge in e-commerce driving demand for faster and more reliable air cargo services.
- Digitalization key to managing complex logistics and distribution networks efficiently.

Impact of Digitalization:

- Streamlined operations through digital tools to meet the demands of a rapidly growing e-commerce sector.
- Adoption of digital platforms for real-time tracking and inventory management.

Sustainability Focus:

- Digital efficiencies enabling better fuel management and route optimization.
- Use of analytics to support sustainable practices and reduce environmental impact.

Capacity Fluctuations:

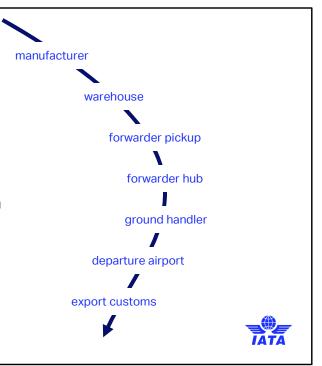
- Predictive technology for better capacity planning and rate stabilization.
- Enhanced supply chain adaptability through digital solutions that respond to dynamic market conditions.

Technology Integration:

- Implementation of AI, IoT, and blockchain for improved operational transparency.
- Innovations in digitalization leading to more efficient, secure, and transparent logistics operations.

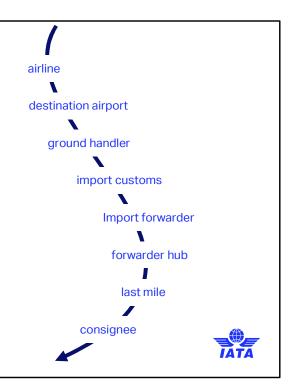
Data in air cargo: many stakeholders

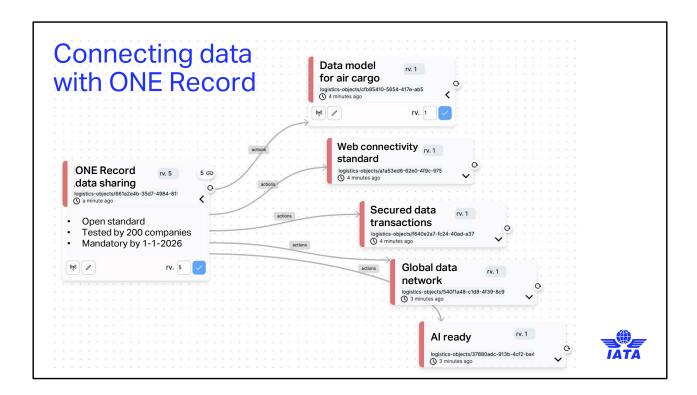
- **1. Shipment Information:** Details about cargo type, weight, volume, and quantity.
- **2. Booking Details:** Cargo booking references and flight information.
- **3. Cargo Handling Details:** Information on cargo arrival, storage, and handling at airports.
- **4. Customs Data:** Documents and information for customs clearance.
- **5. Condition Monitoring:** Data on environmental conditions for sensitive shipments.



Data in air cargo: many functions

- **6. Track and Trace:** Real-time location and status of shipments.
- **7. Dangerous Goods Info:** Safety details and documentation for hazardous materials.
- **8. Transportation Plans:** Itineraries and routes for cargo transit.
- **9. Financial Information:** Billing, invoicing, and payment details.
- **10. Insurance Details:** Cargo insurance coverage and policy information.





ONE Record Data Sharing:

- Introduces a new standard for data sharing across the air cargo industry.
- It has been tested and validated by over 200 companies for reliability and efficiency.
- Adoption of this standard was mandated for industry compliance by January 1, 2016.

Data Model for Air Cargo:

- Provides a unified and streamlined approach to structuring air cargo data.
- Facilitates consistency in how air cargo information is recorded and exchanged.

Web Connectivity Standard:

- Establishes guidelines for connecting different systems across the web to enable seamless data exchange.
- Ensures compatibility and interoperability among various digital platforms in air cargo.

Secured Data Transactions:

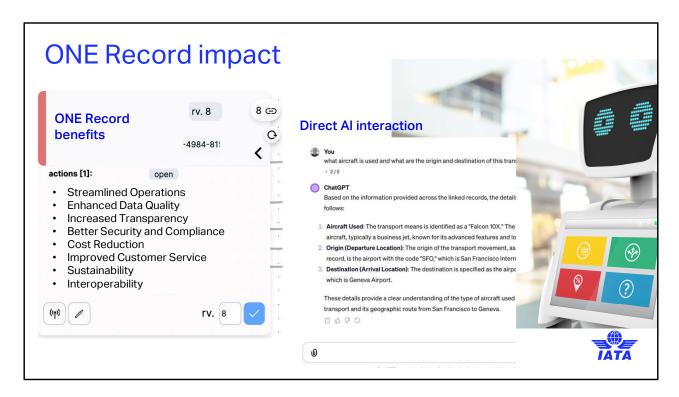
- Ensures data integrity and security across digital transactions.
- Utilizes advanced encryption and security protocols to protect sensitive information.

Global Data Network:

- Aims to create a worldwide network for sharing air cargo data.
- Enhances global collaboration and accessibility of data.

Al Ready:

- Prepares the air cargo industry for the integration of artificial intelligence technologies.
- Lays the foundation for future innovations and advanced analytics in logistics.



ONE Record Benefits:

- Streamlined Operations: Simplifying processes for efficiency.
- Enhanced Data Quality: Ensuring accuracy and reliability of data.
- Increased Transparency: Providing clear visibility into operations.
- Better Security and Compliance: Strengthening protection and adherence to regulations.
- Cost Reduction: Decreasing expenses through improved operations.
- Improved Customer Service: Delivering superior service experiences.
- Sustainability: Fostering environmentally responsible practices.
- Interoperability: Enabling systems and organizations to work together seamlessly.

Example of direct AI interaction:

- The Al's response serves as a practical example of how ONE Record can impact day-to-day operations by providing specific and immediate information upon request.
- This implies an efficient use of technology to enhance operational awareness and decision-making in real-time transport scenarios.



ONE Record Hackathons Overview:

 Hackathons focused on utilizing ONE Record for various innovative applications in cargo management and processing.

CheckSync:

 A winning solution from a hackathon that improves cargo check processes with Al, leveraging ONE Record to increase accuracy and efficiency.

NE:ONE automate:

 Automates ONE Record digital cargo 'Change Requests', aiming to enhance efficiency and customer experience with AI and a user-friendly interface.

OneAl:

• Leverages Generative AI for air cargo booking compliance, streamlining pet shipment processes in accordance with AI and IATA regulations.

One Piece-CargolQ:

 Inspired by Turkey's 2023 earthquake, this solution focuses on efficient, individual piece-level cargo management for better response and communication.

Qpay:

 A book and pay tool that integrates various payment methods with ONE Record, using Qatar Airways API to boost airline revenue, customer experience, and transparency.

Each point represents a project that has won a hackathon challenge, demonstrating the wide