



ONE Record

Fact Sheet

Background

ONE Record is a data-sharing standard whose aim is to improve the efficiency, transparency, and collaboration in the air cargo industry. It follows from the work done by the air cargo industry with the e-freight programs since 2005, that set the foundation for the digitalization of the air cargo industry and led to the implementation of the e-AWB which is now used for most shipments.

Data sharing standard

ONE Record is a data sharing standard that provides a single record view of shipments, facilitating data integration, system connectivity, and security among airlines and their partners. This standard promotes digital innovation and expands the use and role of data in the industry.

The technical standard is composed of a

- **Common data model** for air cargo that facilitates data integration with existing and new data services
- **API specification** that details how airlines and their partners can easily connect their systems with each other
- **Security specification** that ensures data privacy and confidentiality for all parties

These specifications are available at www.iata.org/one-record

Industry benefits

The objective of ONE Record is to address the main challenges of e-freight and unlock the possibilities of a full digital air cargo industry and create opportunities for new value-added services and business models. This includes:

1. **Enhanced data sharing and collaboration:** One Record enables transparent and secure data sharing between stakeholders in the air cargo supply chain, such as airlines, freight forwarders, ground handlers and customs. This leads to greater efficiency and streamlines operations.

2. **Real-time data access:** One Record provides real-time access to shipment data, allowing stakeholders to make informed decisions and respond quickly to changing circumstances, such as delays or disruptions.
3. **Improved data accuracy and consistency:** By utilizing a standardized air cargo data model, One Record ensures that all parties have access to accurate, consistent, and up-to-date information. This reduces errors and discrepancies, leading to more efficient operations and better customer service.
4. **Increased transparency and traceability:** One Record offers greater visibility into the entire supply chain, allowing stakeholders to track shipments and monitor their progress at every stage. This transparency helps identify bottlenecks and inefficiencies, leading to improved performance and customer satisfaction.
5. **Reduced paperwork and manual processes:** Supporting the original objectives of the e-freight programme, One Record continues to eliminate paper by digitizing and standardizing data exchange.
6. **Future of digital cargo:** ONE Record creates the foundation for true digital air cargo where airlines, their partners and service providers can develop collaborative and automated digital services and welcome a new generation of digital savvy air cargo innovators.

Implementation deadline: 1 January 2026

Through the IATA governance programs, airlines have agreed that they will have developed ONE Record capability by 1 January 2026. This objective is supported by many of their supply chain stakeholders, including the IT service providers and forwarders.

To this end, more than 200 companies around the world are involved in pilot projects to test and implement more than 25 ONE Record use cases, including, for example, exchange of air waybill data, freight tracking, customs processes and multimodal transport integration. Many of these pilots are now converting these capabilities into operational systems.

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