

INFOSYS GLOBAL ULD TRACER



ULD tracking: The growing challenges of a complex system

Nearly 35% of all global cargo is transported by air. With the air cargo industry expected to reach US\$380 billion by 2027, ULDs or Unit Load Devices are becoming an increasingly critical cog in the smooth operation of global logistics.

As ULD usage scales with rising cargo volumes, current systems to track and manage these devices can cause significant revenue leakage due to several inefficiencies:



No integrated view of the airline's ULDs, operating ULDs, partner ULDs, available ULDs and operational plans



No seamless integration of ULD status between airline systems and vendor systems for effective tracking



No end-to-end operational view of the location, assigned flights, serviceability, availability, utilization and criticality, etc.



No real-time view for assessing flight delays due to the current location and status of the ULDs



No real-time view of risky contents like valuables, perishables, pets, temperature-controlled medicines etc., against changing operational schedules



No data insights on optimal ULD utilization based on predicted utilization and availability across stations

To ensure that the right type of ULDs are available for scheduled cargo loads and flights, ULD planners need real-time visibility into availability. Although airlines and freight forwarders use systems to track and trace the movement of cargo, these systems focus on airway bills and not container IDs – leading to a lack of visibility into ULDs.

As we move more goods around the world faster, the need for a robust ULD tracking system has never been more apparent.



Tracking the future: A new solution is on the horizon

The Infosys Global ULD Tracer is a Cloud based as a Service solution, that helps airlines and vendors save millions of dollars annually by delivering powerful and universal ULD tracking capabilities via a single platform. The platform aggregates ULD data about availability and movement across vendors, airlines, freight forwarders, and ground handling agents to provide real-time updates about ULD status, location, and condition.

The solution helps trace ULDs globally regardless of the vendor, airline, and individual lease contract with companies. With several airlines onboarding to the platform in the future, the ULD Tracer is a go-to place to trace any individual ULD around the globe.



Key Features

- Global ULD tracking data platform for real-time tracking
- Consolidated ULD inventory and operational view
- Trace ULD provider, airline, route, or station on the flight schedule.
- Identify and track ULDs through any scan inputs – manual, bar code, RFID, BLE, Camera
- Preview the sequence of a tail-to-tail ULD transfer
- Customizable data insights for custom analytics
- Identification of unused or under-utilized ULDs
- Support ground handler and management mobile tools
- Built-in AI models for operations planning and refinement
- Partnership with infrastructure providers like ULD vendors, BLE tag companies
- Track any scan inputs – manual, bar code, RFID, BLE, Camera
- Persona driven UX for each role
- Fully Compliant with IATA One Record data model and standards
- Native Cloud based solution with subscription based as a service model, with IT low maintenance costs

Key Benefits

- Reduction of manual efforts in ULD tracking
- Identification of cost-effective ways to track ULDs and assets
- Reduction of ULD losses by increasing their visibility
- Accurate location and track ULD movements
- Forecasting the ETA of each ULD for flight departures
- Avoid flight delays due to misrouted or misloaded ULDs
- Faster tracing and unloading last-minute off-loaded passenger baggage or cargo fast
- Better load planning
- Adherence to ULD contracts with counter parties.

Infosys Global ULD Tracer not only offers multiple, carefully considered features to make ULD tracking and management a breeze, but also delivers the functionalities of disparate tools via a single, integrated cloud-based platform.



With over two decades of experience in IT and product development in the aviation industry, Infosys has worked with some of the world's largest airlines and cargo companies to develop their cargo management systems. Our Global ULD Tracer offers solutions to many issues associated with tracking ULDs.

By integrating various ULD service providers and ULD management services of various global airlines, GHAs, and

vendors, users can leverage our Global ULD Tracer to track their ULDs more efficiently, reduce loss of revenue from flight cancellations and non-availability, as well as better plan flights to increase revenue for airlines.

For more information, contact TravelPractice@infosys.com

Infosys Cobalt is a set of services, solutions and platforms for enterprises to accelerate their cloud journey. It offers over 14,000 cloud assets, over 200 industry cloud solution blueprints and a thriving community of cloud business and technology practitioners to drive increased business value. With Infosys Cobalt, regulatory and security compliance, along with technical and financial governance comes baked into every solution delivered.

For more information, contact askus@infosys.com

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