Pilot Description

- Verified the complete process from the airport of departure to the airport of destination through ONE Record API data sharing
- Verified the sharing of RFID inbound and outbound node status on the piece level
- Verified data exchange within a data sharing network composed of multiple ONE Record Servers

Pilot Participants

Pilot Project Tag Line

“Full process data sharing from the airport of departure to the airport of destination”
ONE Record – Pilot project profile

**Data Model**
- Airline Core Ontology
- Interactive Cargo (IoT)
- Shipper’s Letter of Instruction
- Cargo Distribution
- Dangerous Goods
- Pharmaceutical
- CO2 Emission
- Customs (PLACI, ICS2)
- e-CMR
- Ground Handling
- ULD Tracking

**API / Security**
- PUB/SUB
- LO update
- Access delegation
- Security
- Status update
- Audit trail
- Access restriction
- Cascading status update - Pub/sub in multi-chain
- Data integrity / non repudiation with RDF
- SHACL shapes
- IoT updates
- Rich data

**Implementation roadmap**
- Oct: Kick-off
- Nov: Setup 1R Servers for participates
- Dec: Business procedure discussion
  - EDI discuss
  - EDI Interface development
  - EDI Launch
- Jan: Trail run
- Feb: Design & Optimize procedure & Data sharing model
  - 1R Servers integrate with EDI
  - Test with participate (1on1)
- Mar: Wrap up

- eFreight.cn

ONE Record – Pilot project profile

Pilot Set Up / Architecture

Data format conversion

Hangzhou International Airport

1R LO Event Status

API / Security

FUB/SUB, Status Update, Security, LO Update

Hangzhou International Airport 1R Server

Shared 1R Server

API / Security

FUB/SUB, Status Update, Security, LO Update

CAI NAO 1R Server

Data format conversion

FSU, FON/FCS/DEP

SINOTRANS

AIR CHINA CARGO