Shenzhen & HNA

Pilot Description
1. To raise awareness of ONE Record in local cargo community, in order to develop best practice for ONE Record implementation.
2. Verification of new data sharing method, which will replace the legacy peer-to-peer messaging modal.
3. Focus on extension to logistics chain with multi-parties participation, and data sharing of events outside the airport to airport scope.

Pilot Participants

Pilot Project Tag Line
“深圳&海航货运，数字货运生态圈更近一步”
“Shenzhen & HNA Cargo, One Step Closer to Digital Cargo Eco-system with ONE Record”
Shenzhen & HNA

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

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

Implementation roadmap
- May
- June
- July
- August
- September
- October
- November
- December
- Kick-off Meeting Technical requirement
- Set up ONE Record server
- Internal and external test, data exchange, access control, and access delegation were completed
Shenzhen & HNA

Pilot Set Up / Architecture

1R server
HNA Cargo (Airline)

PUB/SUB

1R server
e-freight (FF)

1R server
ICCS (GHA)

Data Security