



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



海航货运
HNA CARGO



eFreight
翱 飞 锐 特



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

Shipper's
Letter of Instruction

Cargo
Distribution

CO2
Emission

e-CMR

ULD
Tracking

Interactive
Cargo (IoT)

Dangerous
Goods

Pharmaceutical

Customs
(PLACI, ICS2)

Ground
Handling

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*



Pilot Set Up / Architecture

