ONE Record Airport hub

- Implementation of the IATA One Record specification based on Github documentation.
- Master airwaybill data from two Forwarders being moved through a One Record hub to two Airlines and one Ground Handler
- Initially the trade lane LHR-HKG & HKG-LHR.
- Pilot may include status messages to/from CX
- The pilot server will be built to accommodate additional business scenarios that will be discussed during 2020.

Pilot Participants

Pilot Project Tag Line

"Making every journey better"

ONE Record Airport hub

Data Model

Airline 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

API / Security

PUB/SUB

LO update

Access delegation

Security

Events

Audit trail / Versioning

Access Control

Cascading status update
- Pub/sub in multi-chain

Data integrity / non
repudiation with RDF

SHACL shapes

IoT updates

Rich data

Implementation roadmap

April 2020
Ground work and foundation
Authentication
Companies & Users
Logistics objects (Air Waybill, House Airwaybill)
Pub/Sub

Apr/May/Jun/Jul 2020
Stakeholder engagement
Commence testing
Evaluate/feedback/update
Add additional stakeholders and logistic objects

ONE Record Airport hub

Pilot Set Up / Architecture

UK based

Microsoft Azure servers (3)

Augular 8 Framework / scaffolding

MS SQL Server (Free version for pilot)

MS .Net 3 Core Web API

GUI via Browser