

# Pharmaceutical shipment pilot – ONE Record



## Pilot Description

- Ensure current data model allows for proper shipment data sharing of Pharmaceutical shipments (done)
- Enhance the data model to incorporate IoT devices and enrich data available to all parties (in progress, to be completed by year end. Enriching data includes incorporating CargoIQ care protocols)

## Pilot Participants



## Pilot Project Tag Line

**“ONE Pharma – Uncompromising Excellence. Commitment to Care”**

# Pharmaceuticals



## 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

*Timeline work in progress*



## Pilot Set Up / Architecture

Pharma.aero/  
Nallian

Schenker

Qatar Airways

Note:

- Data flow plan to be established
- Scope includes standard AWB and HAWB data elements
- Also includes Rich data, Status messages including the shipment rest times