ONE Record And Existing Messaging Standards

Pilot Description

• To validate the flow of key operational information between One Record ready forwarder and non-One Record ready airline is compatible with current business process.
• Data model to be validated include master air waybill document, house manifest, acknowledgement on the receipt of the document, and shipment status update.

Pilot Participants

SINGAPORE AIRLINES  
CARGO COMMUNITY NETWORK  
wisetech global

Pilot Project Tag Line

“One Global Standard, Many Possibilities”
ONE Record And Existing Messaging Standards

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

- **February**
  - Project kickoff
- **March**
  - End-to-end test with selected set of live data
- **April**
  - API Security – authentication and authorization
- **May**
- **June**
- **July**
- **August**
  - Re-align to latest version of data model, audit trail
- **September**
  - End-to-end test with selected set of live data with latest data model, API security
- **October**
  - Project closure, review, planning for 2021
- **November**
- **December**
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Pilot Set Up / Architecture

2020 SIN Pilot Group One Record Architecture
(WTG-CCN-SQ)

Note: Exchange LO with IATA recommended Pub/Sub model