ONE Record node expansion

Pilot Description

• Integration between a 1R hub and 1R server (CCN/SIN forwarder communities - QR)
• Scope – sharing of data elements related to MAWB, House Manifest, HAWB, shipment event updates.
• Include IATA defined 1R API security and access control features

Pilot Participants

CARGO COMMUNITY NETWORK
QATAR AIRWAYS | CARGO
Qas
QATAR AVIATION SERVICES
Delivering Excellence Worldwide

Pilot Project Tag Line

“One Record - be part of digital change”
ONE Record node expansion

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

**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**: Pilot scope definition and formalization
- **March**: Review of Pilot discussion and initiation
- **April**: Development - System integration, message exchange in stage
- **May**: Testing Review
- **June**: Security - Authorization and authentication
- **July**: API development - New with security layer
- **August**: System integration testing - with security layer Review
- **September**: Logistic Object development - new data model
- **October**: Complete - end to end testing with security features and total scope
- **November**
- **December**
Flow Diagram

Note:
• Assumption origin GHA is not one record compliant
• QAS is Qatar Aviation Services - Qatar Airways Doha HUB ground handling partner
• QR Forwarder Customers hosted by CCN ONE Record Hub may or may not be one record compliant