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

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)
e-CMR	Ground Handling
ULD Tracking	

API / Security

PUB/SUB	**Access Control**
LO update	Cascading status update - Pub/sub in multi-chain
Access delegation	Data integrity / non repudiation with RDF
Security	SHACL shapes
Events	IoT updates
Audit trail / Versioning	Rich data

Implementation roadmap

February	March	April	May	June	July	August	September	October	November	December

- Pilot scope definition and formalization
- Review
- Development - system integration, message exchange in stage
- Security - authorization and authentication
- Logistic Object development - new data model
- Complete - end to end testing with security features and total scope

- Pilot discussion and initiation
- Formalize IT efforts & evaluate scope Creation of working group IT capabilities (technology and design) and sample exchange
- Testing Review
- API development - New with security layer
- System integration testing - with security layer Review

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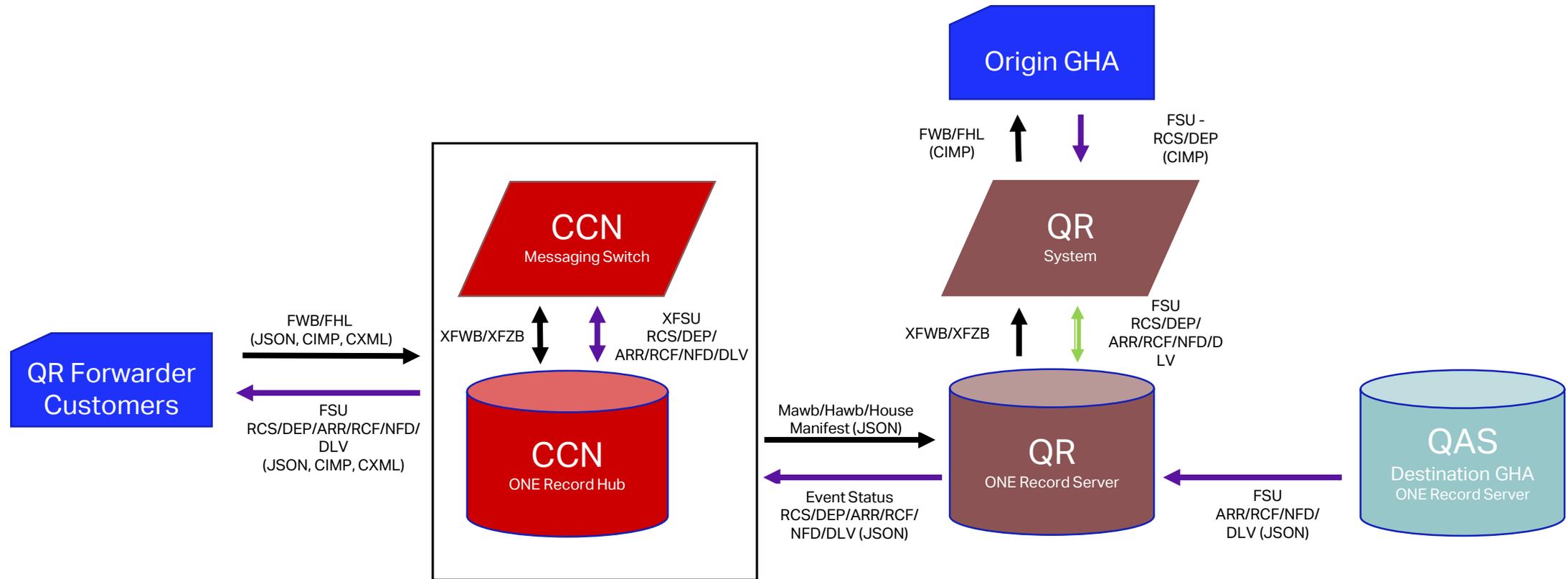
Note:
- Assumption origin GHA is not one record compliant
- QAS is Qatar Aviation Services - Qatar Airways Doha HUB ground handling partner
- QR Forwarder Customers hosted by CCN ONE Record Hub may or may not be one record compliant