ONE Record – Pilot project profile

Pilot Description

• OneRecord for Road Transport
• Digital twin for transport and shipment
• Sharing data with public authorities (Benelux e-CMR/eFTI pilot project)
• OneAPP for authorities
• Integration ERP of SME Logistics Service Provider
• Linked data with multiple domain ontologies (IATA, UN/CEFACT, EU FEDeRATED)
• OneRecord-as-a-Service

Pilot Participants

EU-Gate
Sharing data with Europe
OneRecord for Road Transport
ONE Record – Pilot project profile

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 (PLAC, ICS2)
- Ground Handling

API / Security

- PUB/SUB
- LO update
- Access delegation
- Security
- Status update
- Audit trail

Access restriction
- Cascading status update - Pub/sub in multi-chain
- Data integrity / non repudiation with RDF
- SHACL shapes
- IoT updates
- Rich data

Implementation roadmap

2020-2021
- Demonstrator
- Logistics objects: Air Waybill, House Waybill, CMR, Cargo Manifest
- OneAPP for Authorities
- Integrate IATA and UN/CEFACT ontologies

2021-2022
- Pilot project
- Multi-modal air-cargo + road
- Use myERP as OneRecord Server
- Integration with Benelux e-CMR/eFTI pilot project
- OneRecord-as-a-Service
OneRecord – Pilot project profile

Pilot Set Up / Architecture

- OneRecord for road transport
- Digital twin for transport and shipment
- Use same data for commercial, transport and border control
- Ultra decentralized, do not copy
- Seamless integration of multiple domain ontologies
- Events, subscribe if you are entitled
- OneAPP for Authorities