



CONNECTIVITY: CATALYST FOR DIGITAL TRANSFORMATION IN AVIATION

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ALTA CCMA & MRO Conference

CONNECTIVITY AS A CATALYST

Digital Transformation

The implementation of new technologies, talent, and processes to improve business operations and satisfy customers. A foundational change in how an organization delivers value to its customers.

Catalyst

Something that causes activity, an event, or change.

Connectivity

Capacity for interconnection of platforms, systems, and applications.

DIGITAL TRANSFORMATION

“Irregular Ops” Avoidance Analytics

- System health assessments
- **Predictive Health Monitoring (PHM)**
- Disruption avoidance



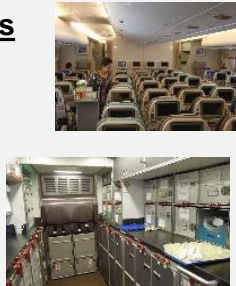
EFB Apps Enablement

- Maps
- Charts
- Logbooks
- Performance
- Weather
- Route Planning
- Traffic



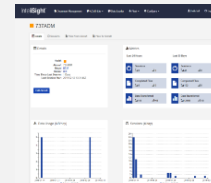
Cabin & Cargo Applications

- Transactional
- Inventory
- Environment
- Cargo monitoring
- Passenger Service
- Video



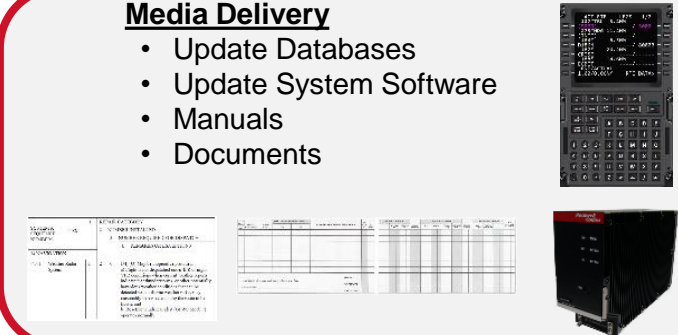
Flight Ops and Maint Data Recording & Transmission

- Flight Data
 - QAR
 - DAR
 - SAR
- Maintenance Data
 - ACMS Lite
 - User Defined



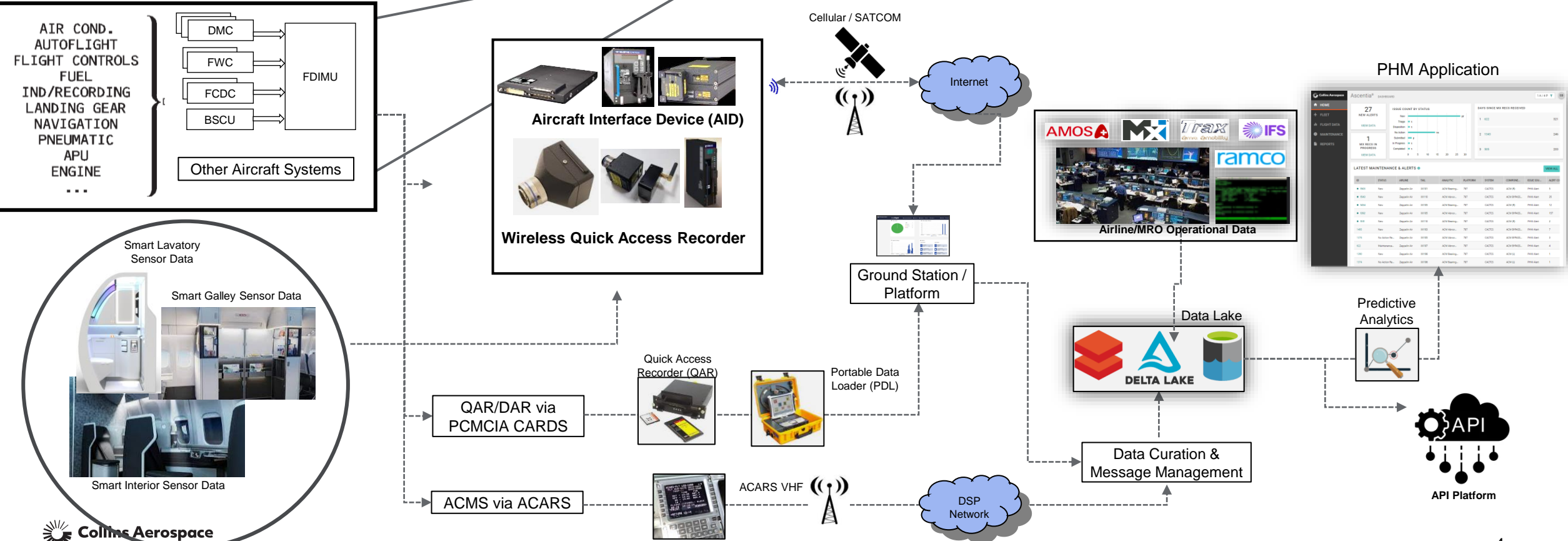
Media Delivery

- Update Databases
- Update System Software
- Manuals
- Documents



An airline needs to securely and efficiently connect the **different domains & applications** on the aircraft, **across multiple airframes, platforms and protocols**, and easily integrate these into their Airline Operations

USE CASE: PREDICTIVE HEALTH MONITORING



CONNECTIVITY WITHIN THE AIRCRAFT



A.C.D.

Aircraft Control Domain

A.I.S.D.

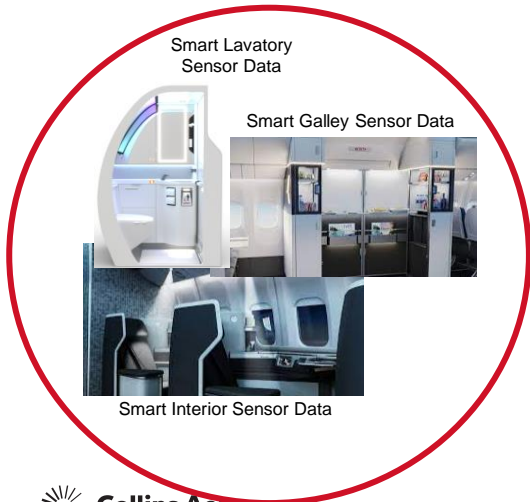
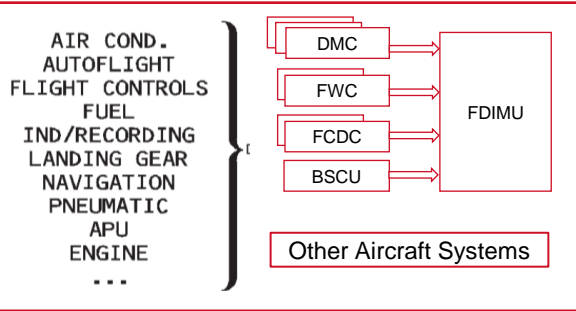
Aircraft Information System Domain

P.I.E.S.D.

Passenger Information and Entertainment System Domain

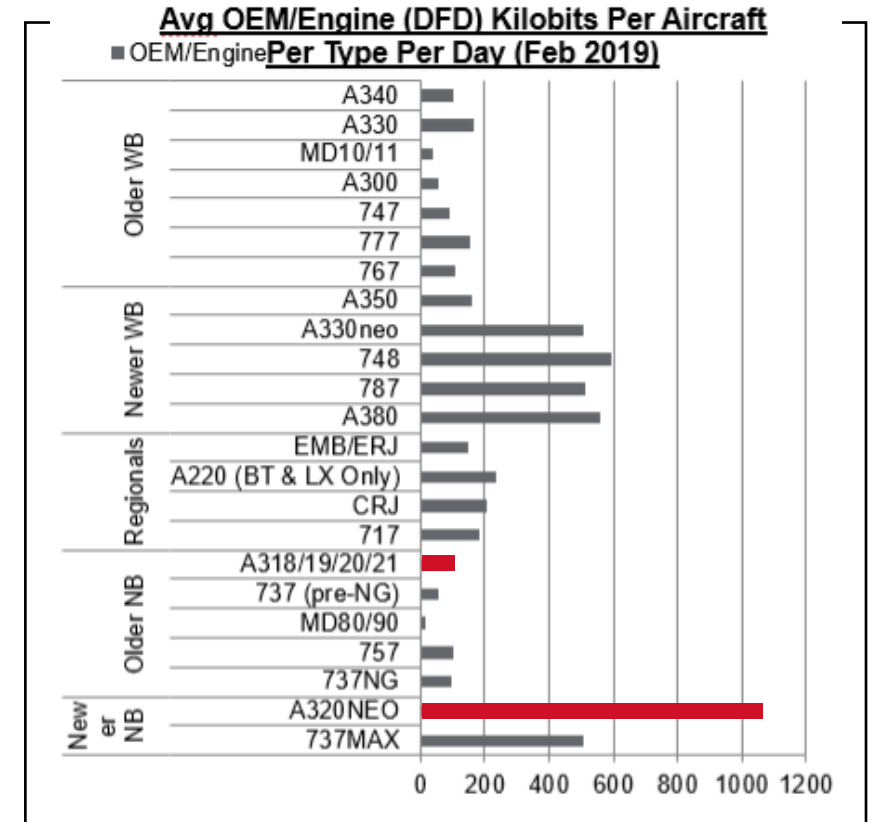
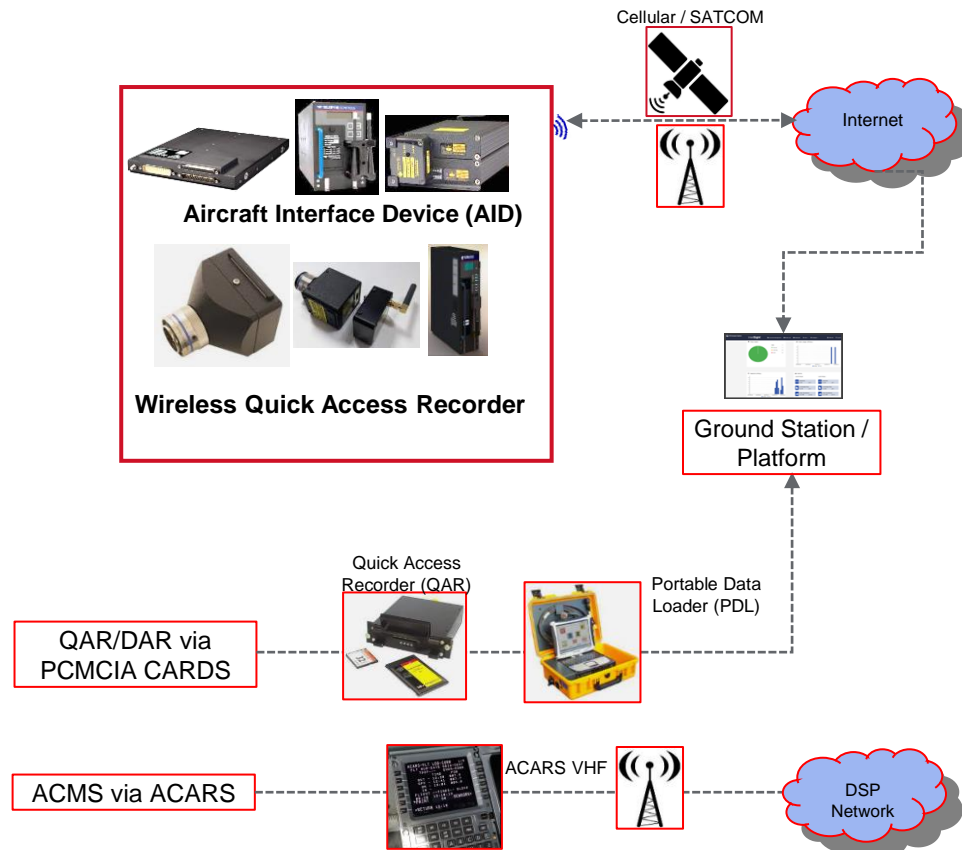
P.O.D.D.

Passenger Owned Devices Domain

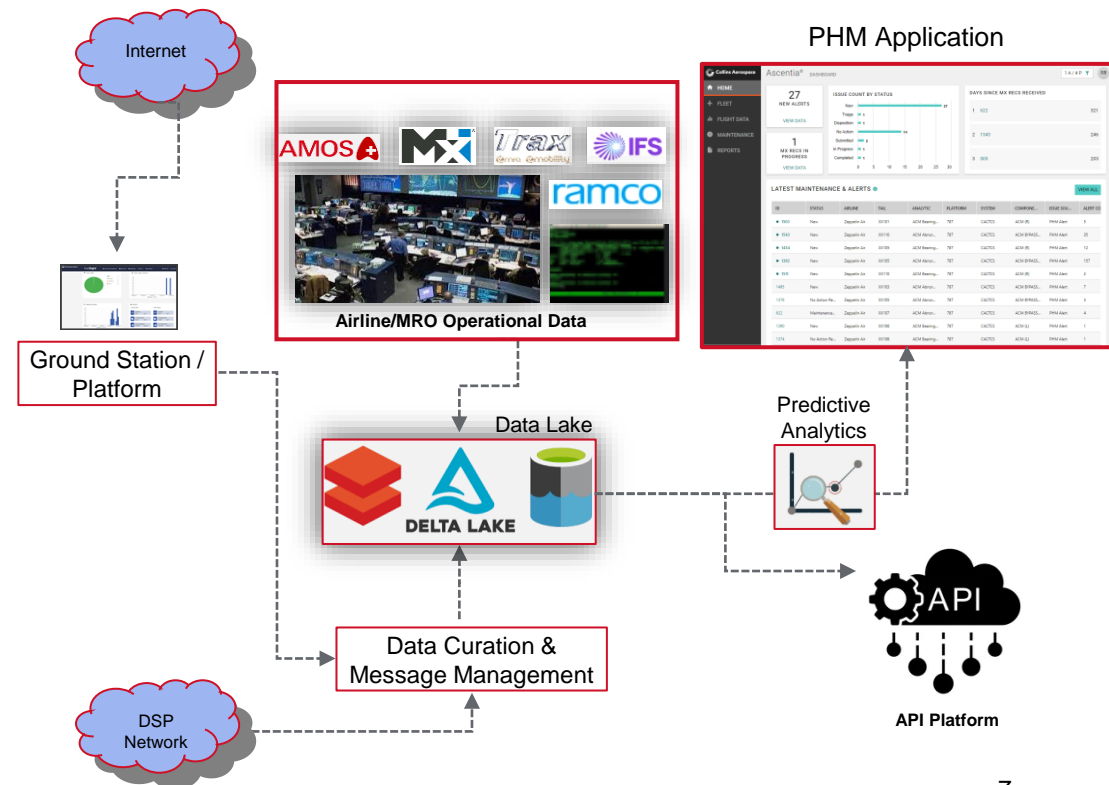
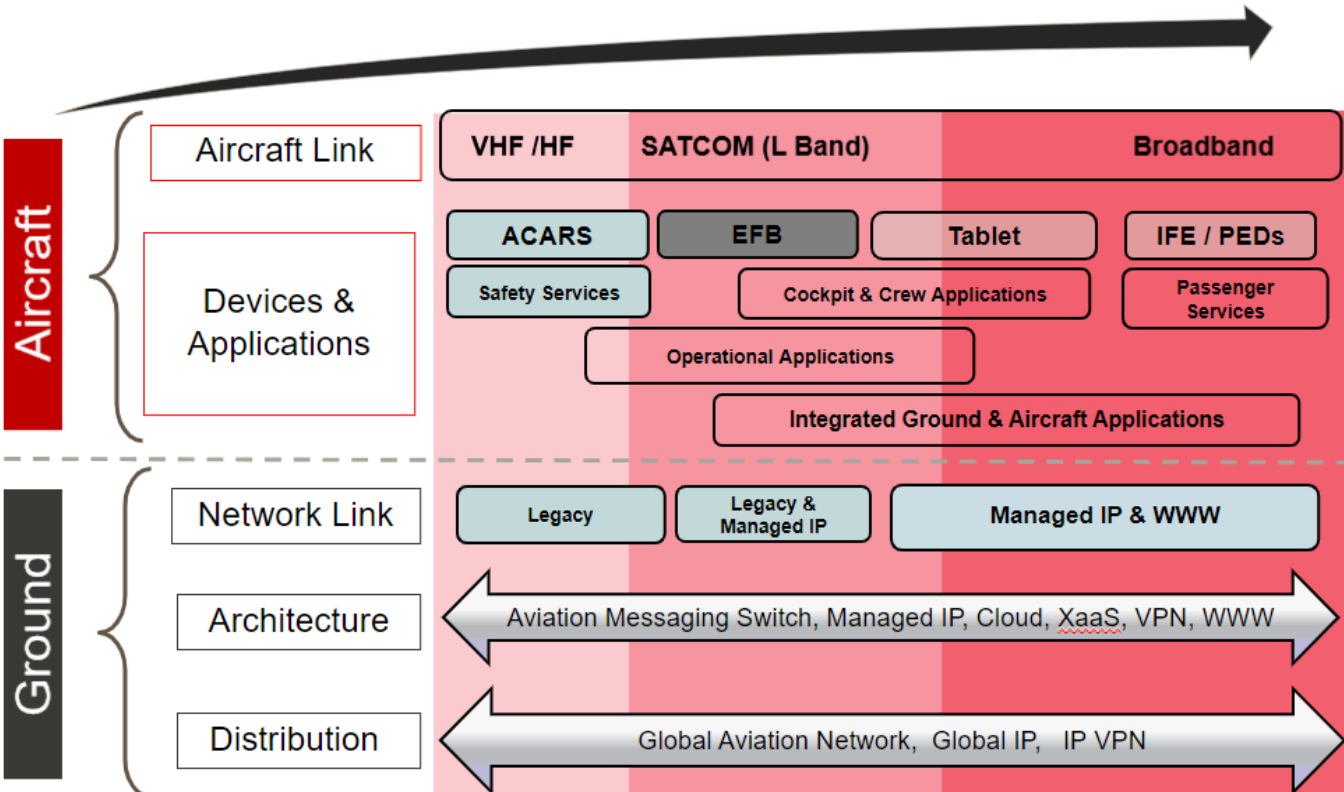


Enabling connectivity across aircraft is key to unlocking the value of data and applications to and from the aircraft

CONNECTIVITY TO THE AIRCRAFT



CONNECTIVITY ON THE GROUND



Thank You!

Ian Galloway

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