



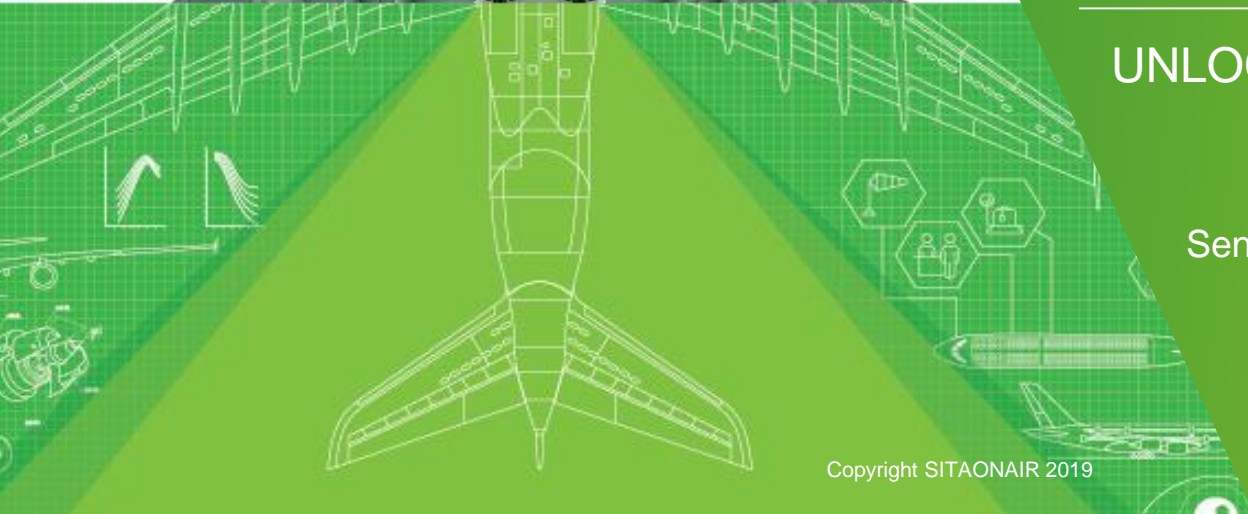
**SITAONAIRO** 

The Next Great Leap  
in Aircraft Communications.  
Are you prepared?

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UNLOCK POSSIBILITIES TODAY.

**Deepak Garg**  
Senior Manager Business Development  
SITAONAIR



# What is our aircraft portfolio about?



## DIGITAL DAY OF OPERATIONS

- Track and optimize in-flight routing and turn around
- Empower crew engagement
- Assisted pilot operations
- Effective communication and collaboration



## AIRCRAFT DATA MANAGEMENT

- Overcome the challenges of airline, airframer, MRO and OEM data exchange



## CABIN CONNECTIVITY SERVICES

- Enable dedicated, nose-to-tail connectivity and universal coverage
- Provide a richer and more interactive infotainment experience for passengers



## UNIFIED AIRCRAFT COMMUNICATIONS

- Unlock significant cost savings and efficiencies with both data and voice services
- Enhance air traffic control procedures with complete integration from ATC to cockpit
- Facilitate secure, real-time data exchange





# SITAONAIR

## Our vision

To support the airline and Air Navigation Service Provider community. Helping them to that power through the next decade and beyond, supporting the transformation of aircraft, airline and airspace operations

# Market evolution

Passenger numbers to double to **8.2 billion** by 2037

Global fleet size to exceed **48,000** aircraft by 2037

By 2035 more than **100,000** aircraft will take off **each day**

Modern aircraft data volumes are **booming**





# New generation aircraft communications: Challenging times



The approach is changing and requires constant...



Management



Planning



Innovation

# Different aircraft comms domains require different link characteristics

Aircraft Control Domain

**Safety of Flight**

*Aircraft Control (ATC)*

Aircraft Information Services Domain

Non-Essential Applications

*Administrative / Operational*

Passenger Information & Entertainment Services Domain

Entertainment & Network Services

*Passenger*



Domains are defined by the International Civil Aviation Organization (ICAO)

VHF / VDL

Inmarsat Classic

Inmarsat SB-S

Iridium Block One

Iridium Certus

Cellular

Inmarsat SBB

Cabin Broadband

...and not all links are created equal



# Untapped potential for connecting applications



Weather and disruption management



Predictive maintenance, Pre-positioning



Data management  
Data access

AOC / MOC communications



On-ground network partners

Black box data streaming

Telemedicine

Charts, e-tech logs, flight briefs

Flight optimization

Courtesy of Inmarsat



# e-Aircraft® DataCapture

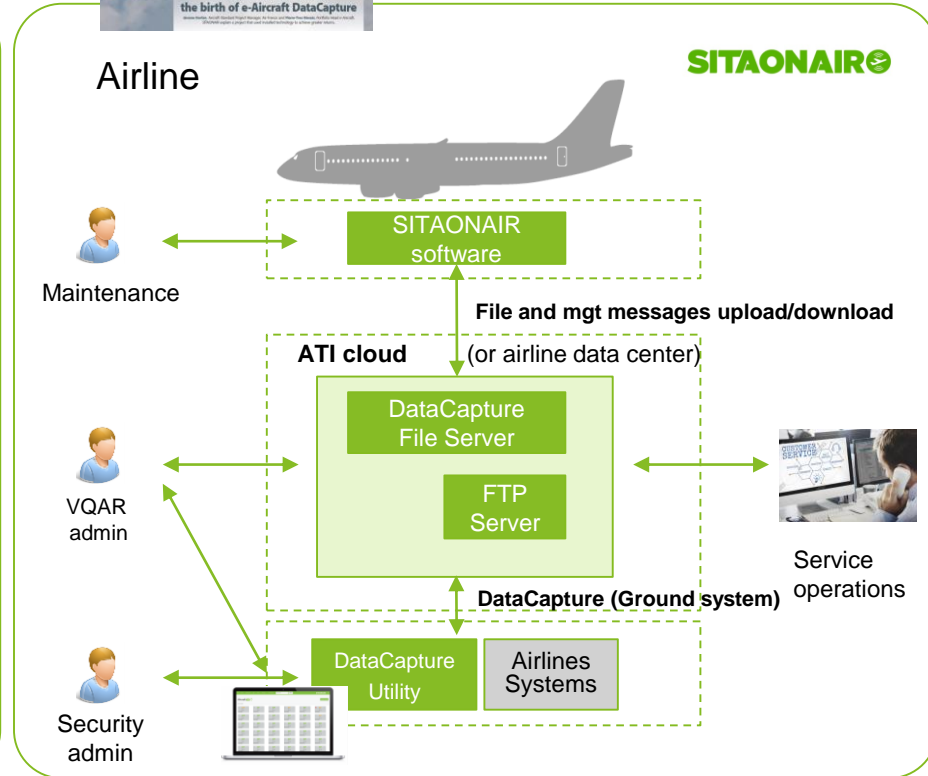
## Synopsis – solution to retrofit 120 A320 family

### ■ Solution components

- Software installed on-board AID
- Ground Server at airline or ATI cloud
- User friendly web interface for airline

### ■ What it does

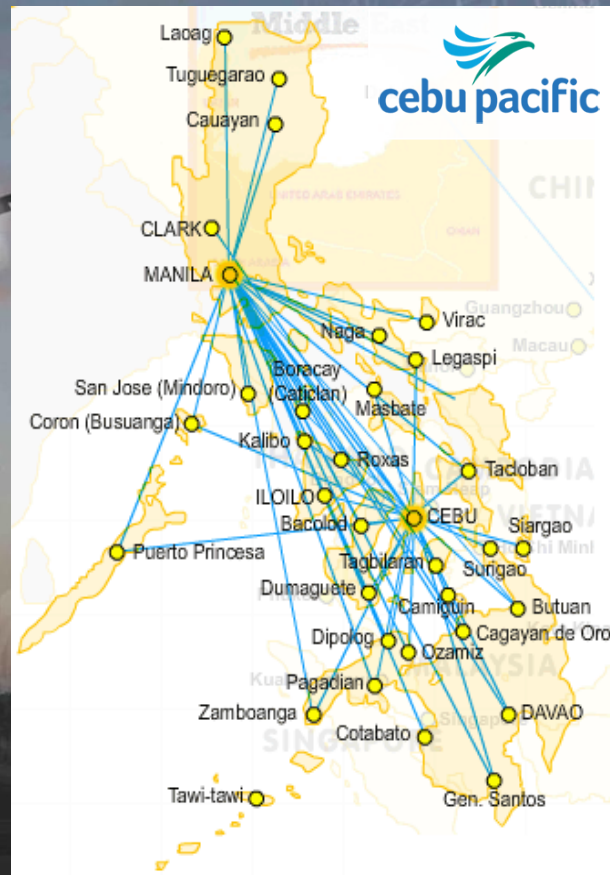
- On-board A717 data capture (QAR/DAR)
- Configurable communication policies
- Automatic transfer of aircraft data on ground (through IP coms)
- Fully integrated within airline environment
- Proactive monitoring and Service operations





# Customer case study: Introducing ACARS over Cellular

- Complement VHF/VDL network
- Expansion of coverage
- Higher bandwidth than traditional ACARS media, enabling larger volume data transmission
- Unlimited transmission at a fixed cost
- No major changes to aircraft
- Seamless service delivery through consistent interfaces
- Global service management and support



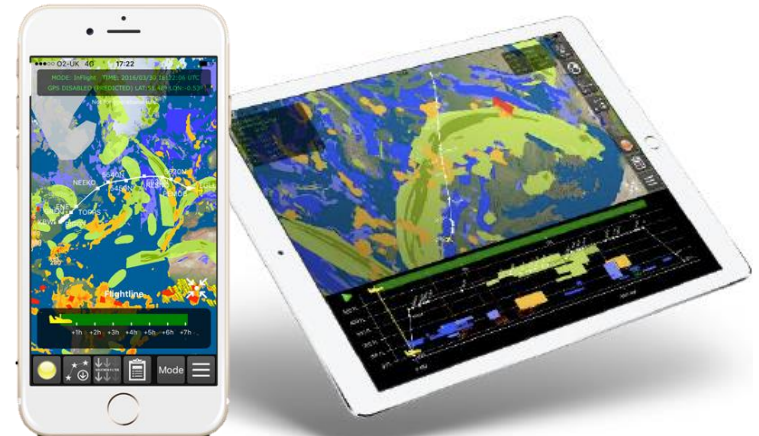
Other airlines in implementation or active dialogue

## Use case: e-Aircraft® AppsConnect for eWAS

Upload eWAS weather files and update relevant weather in-flight

### Main features

- **Initial weather files via Cellular or Wi-Fi**  
Possible upload via the Aircraft Interface Device on board
- **Weather file updates in-flight via ACARS (or Satellite)**  
Adapted format (corridor profile, notifications)  
Updates only when relevant on flight route  
Least cost routing (Airline policy based)
- **Different configuration possible per flight**  
Type information of updates, frequency, etc.  
Dependent on destination airport
- **Flexible architecture solution**  
Can be installed on different device types



Case study: A Large European carrier

# Delivering the connected aircraft vision



SITAONAIR®



Service operations



IOTConnect®

AppsConnect®

DataCapture®

AOIPConnect®



Airline



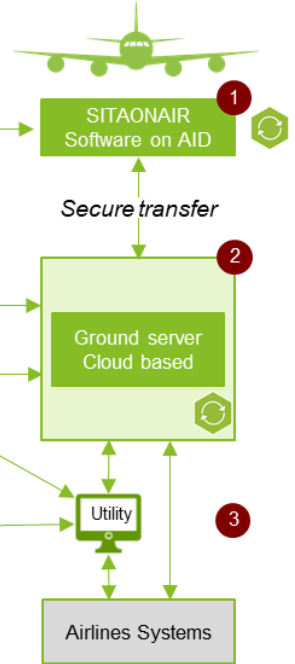
Maintenance



Application admin



Security admin





## **Simplicity**

We remove the complexity of dealing with multiple suppliers, internal integration IT projects and associated costs.

## **Innovation**

We bring access to new, disruptive technologies, which are combined and connected to deliver innovative, end-user focused solutions.

## **Reliability**

We deliver peace of mind that aircraft communications will “just work” with services that are industrialized, highly resilient and available by design.





**SITAONAIRO** 

## Our Mission

We deliver to our customers the promises of the connected aircraft, and power innovation with recognized expertise and future-proof solutions.



# Thank you

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