

# CONNECTIVITY THAT TURNS KNOWLEDGE INTO POWER

Put data to work streamlining  
your airline operations



# UNLOCK BIG DATA ADVANTAGES

## Access the benefits of the digital airline

First, it was the digital pilot. Then the digital aircraft. Now, the next chapter of the connected aviation story begins: the digital airline.

The digital airline offers long sought capabilities. It provides benefits that span your operations by making it possible to gather, analyze, use and share the data that proliferates throughout the aviation ecosystem.

What if your pilots could check their electronic flight bag (EFB) during flight to get tailored, up-to-the minute details on small navigational adjustments that would save fuel? And those details would be driven by parameters on weather, ownership and other in-flight aircraft data.

What if your maintenance department could get an automated alert in near real-time indicating that a specific Line Replaceable Unit (LRU) is reporting a fault, including relevant diagnostic data? Your maintenance crew could be ready with the correct replacement LRU, tooling and procedures to quickly put the aircraft back in service.

The key to these – and many other benefits – is connectivity, which enables airlines like yours to securely and reliably connect a multitude of aircraft across the skies and on the ground. By making those aircraft part of your network, you can strategically manage the data to gain advantages that can transform your operations.

# FOMAX POWER

## Fueled with Airbus teamwork

Collins Flight Operations and Maintenance Exchanger (FOMAX) unit is a line-fit or retrofit system that combines full aircraft interface device (AID) capabilities into a single hardware, software and connectivity solution.

Integrating into your airline operations systems through Collins Aerospace hosted services, FOMAX makes available a tremendous amount of usable data. It can help your pilots, maintenance departments and back offices operate with greater awareness, safety and efficiency.

FOMAX is the only total connectivity system that integrates directly with Airbus' optional Skywise® aviation data platform. The reason is simple: we teamed with Airbus throughout FOMAX's development, ensuring that the system and platform perform as one.

See how the elements of this close collaboration can streamline three major areas of your airline.

## FLIGHT DECK

**Connected EFB** – This capability enables secure connectivity for your tablet EFB and all your applications. Widen your pilots' situational awareness to increase safety and fuel savings by making the EFB a strategic, customized data hub.

Our optional Airline Operational Control on Personal Electronic Device (AOC on PED) EFB application lets your pilots communicate via their on-board EFB with the AOC using any of the communication channels managed by FOMAX.

**Software Development Kit (SDK)** – A number of popular third-party EFB applications have already been tested with FOMAX to ensure compatibility with the avionics Application Programming Interface (API). New vendors and airlines that develop their own applications can take advantage of our SDK and testing capabilities to get to market quickly and ensure their applications work well with FOMAX.

Our commitment to supporting third-party applications helps our customers meet their objectives of streamlining operations and improving cost savings.

## OPERATIONS

**Predictive maintenance** – Automating the collection and downlinking of the highest value aircraft and engine data enables big-data analytics. With FOMAX, you can transition your operations from unscheduled to scheduled and from reactive to proactive.

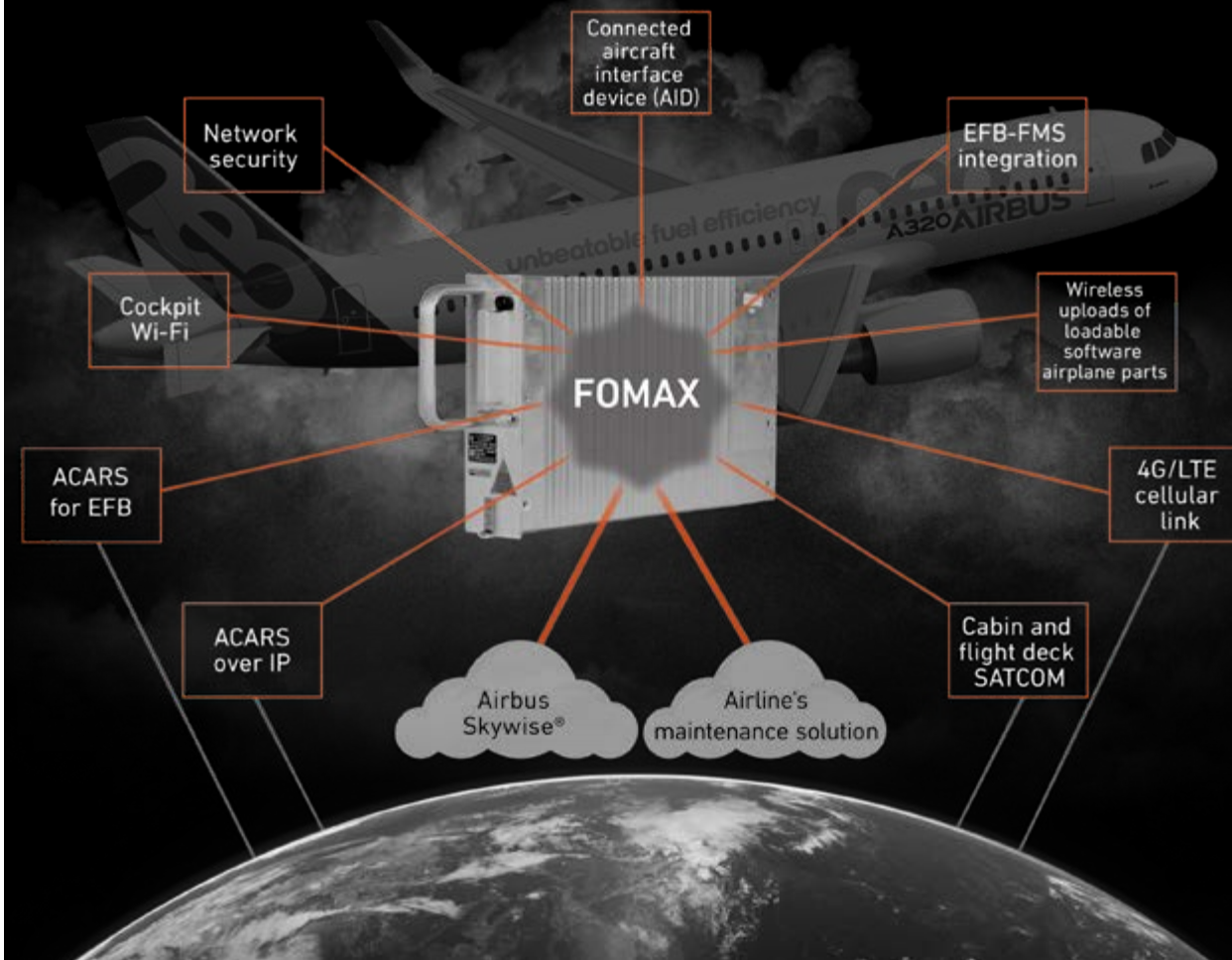
**Flight safety and efficiency** – Collect Quick Access Recorder (QAR), Direct Access Recorder (DAR) and Smart Aircraft Conditioning & Monitoring System (ACMS) Recorder (SAR) data as it's generated and securely transmit it after every flight for use in your Flight Operations Quality Assurance (FOQA) programs. Encrypted communications ensure that this sensitive data stays confidential and secure.

## GROUND SYSTEMS

**GlobalConnect™ connected airline solutions** – FOMAX is part of the Collins GlobalConnect family of air-to-ground communications systems that seamlessly manage aircraft connectivity to get your data where it needs to go. GlobalConnect is a hosted solution for the integrated operations of your whole fleet. This end-to-end connectivity also enables ACARS over IP, which moves non-safety traffic from traditional ACARS media to IP channels managed by FOMAX. This provides a cost saving opportunity for data moving to and from the aircraft.

**Administrative office** – Information flows from each node in your network to your applications the moment it's acquired. Our ground components further integrate your airline operations, Information Technology (IT) and business intelligence (BI) to save you time and money across your enterprise.

FOMAX ground solutions are designed to protect your data privacy. Security considerations are built into the FOMAX architecture from the start. Collins dedicated security teams continuously monitor for issues and apply and upgrade any security policies needed to protect customer data.



## ONE COMPANY DOES IT ALL

You can rely on Collins Aerospace as your single source to deliver the right know-how for your most secure, responsive and capable connectivity system.

- GlobalConnect FOMAX comes complete with its own IT services for airlines
- Cybersecurity software and hardware tested to exceed the latest Original Equipment Manufacturer (OEM) and regulatory standards
- Decades of experience providing aircraft data networks and communications capabilities to airlines worldwide
- Expertise in delivering products, systems and services across the entire air-to-ground spectrum so your system installation and operation will be in good hands from start to finish

To learn more, go to  
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