Viasat Connected Flight Deck

Viasat and Teledyne partner to deliver integrated IFC, AID and services for commercial aviation flight decks

Viasat and Teledyne have partnered to provide aviation customers with a compelling solution for today's connected flight deck. Viasat Connected Flight Deck combines Viasat's best-in-class in-flight connectivity (IFC) with Teledyne's comprehensive Comm+ AID capabilities.

With this solution, airlines can now:

- Significantly lower their ACARS charges
- Exploit reliable, real-time flight data for enhanced flight and maintenance operations
- Take EFBs to the next level, with aircraft data inputs, real-time app updates and enhanced pilot experience

Viasat Connected Flight Deck solution is architected to leverage the capability of Viasat's in-flight internet and Teledyne's Comm+ to connect ACARS, QAR and EFB apps to ground services over our secure, high-speed network.

ACARS over IP

On board the aircraft, the ACARS MU or CMU has a built-in routing capability that determines the optimal subnetwork to use when routing a message from the aircraft to the ground. With this solution, non-safety critical ACARS messages are routed over the secure IP network, significantly reducing ACARS network charges.

Flight data streaming

All modern commercial aircraft are mandated to record critical and non-critical aircraft data to a Flight Data Recorder (FDR). Quick Access Recorders (QAR) provide a convenient method for acquiring the same data captured on the FDR. This solution provides a convenient, secure way to stream QAR data to ground systems in real time.

EFB connectivity

If the optional flight deck WAP is provisioned, a separate flight deck Wi-Fi network is established and ARINC 834 data is available to EFB apps on this wireless connection.

Key benefits

ACARS over IP

- Reduced ACARS data charges, and over 80% of ACARS data transmitted over the IP network
- Secure transfer from the aircraft to the ground, with improved coverage and data link reliability
- No change to the way ACARS is currently used and no user training required

Flight Data Streaming

- Lowers the cost of data acquisition with completely automatic, hands-free, real-time acquisition
- Eliminates data loss, 100% data recovery, and secure transfer from aircraft to ground systems
- Real-time streaming data, improved FDM, FOQA, and MOQA programs

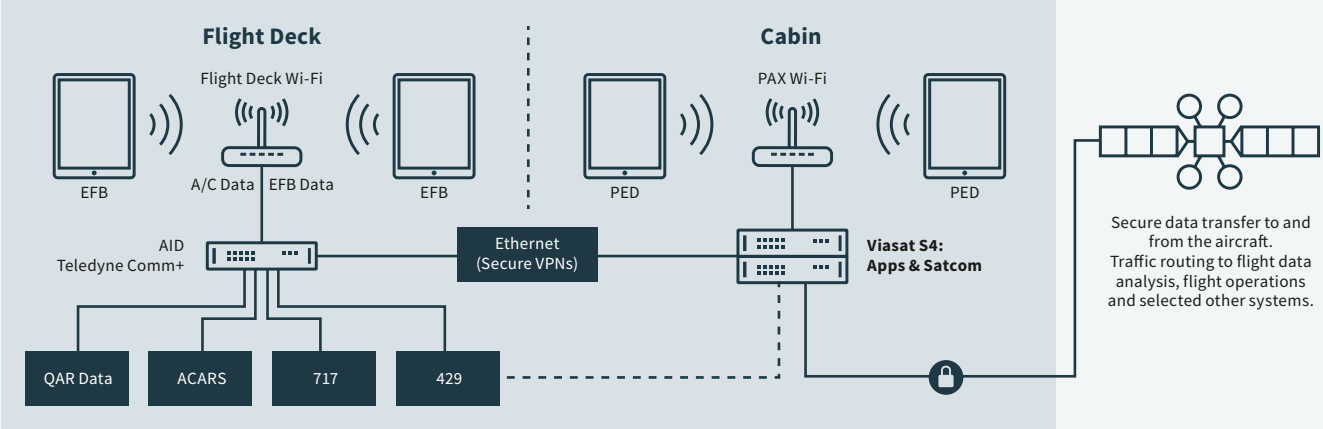
EFB Connectivity

- EFB apps always have the latest information from the ground and from the aircraft
- Real-time weather and turbulence updates provide better/more accurate up-to-date routing information, improving safety and comfort
- Enhances flight routing, reduces fuel burn

Networking and security

All data is encrypted in transit on the complete path between source and destination, and is subject to Viasat's proprietary data security procedures. Built-in firewalls provide protection and separation between aircraft domains.

Once the streamed data is delivered to the ground, it is routed to the airline's systems or the systems of your flight data analysis partner. The primary uses for this data are deeper analysis by Flight Data Management (FDM) for Flight Operations Quality Assurance (FOQA) and Maintenance Operations Quality Assurance (MOQA).



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