ACARS and AOC Messaging

ACARS (Aircraft Communications Addressing and Reporting System) is a data communications system used for air-ground communication between an aircraft and their own operations centers, air traffic control, and national aviation authorities. ACARS can be used anywhere in the world by connecting to a global network of VHF / VDLM2 ground stations and orbiting Iridium / Inmarsat satellite constellations.

AOC (Airline Operational Control) messages can be organized into two distinct categories. The first category of AOC messages serve to enhance an airline’s operations and provide beneficial functionality to increase efficiency, reduce fuel usage, and ensure timely communication and information exchange, logistics, data collection, etc. The second category of AOC messages enable flight crews and Air Traffic Control (ATC) operators to communicate navigation information, aircraft position reporting, departure and oceanic clearances, as well as weather and runway conditions.

By making use of ACARS and AOC messaging, airlines operate more safely ... more efficiently than ever before.

Meet Essential Data Link Requirements Today

Dlink+ is a data link communications unit designed to enhance airline operational control. The Dlink+ unit enables continuous communication and global flight tracking with an airline operations center through ACARS data link. Dlink+ also provides ATN CPDLC compliance with the EUROCONTROL Link 2000+ mandate in European airspace.

Dlink+ enables full featured ACARS and ATN CPDLC within a single LRU. This is accomplished by merging the functionality of three separate avionics systems together – VDR, CMU, and CDU. The Dlink+ single box solution is a small and lightweight unit that streamlines aircraft installation activities and simplifies certification.

Global Flight Tracking

Dlink+AOC enables Global Flight Tracking every 15-minutes per ICAO recommendation. To further aid flight crews and enhance airline operations, Dlink+AOC features condition-based reporting. By monitoring the condition of configured events and triggers, the timing of automated position reporting can change and increase in frequency depending on the severity of monitored parameters.

For more details, contact Spectralux at 1 (425) 285-3000 spectralux.com

ISO 90001 / AS9100
CPDLC

CPDLC (Controller Pilot Data Link Communication) is a text-based air/ground data link system that enables clear and concise communication between flight crews and air traffic controllers. When CPDLC is employed, communication errors such as simultaneous transmissions and misheard voice instructions are reduced. CPDLC messages are sent directly to the aircraft, not as a general broadcast. This direct link between a flight crew and controller enables instructions and clearances to be sent, read, and acknowledged safely and efficiently.

Dlink+AOC has built-in CPDLC functionality allowing European airlines or airlines that operate in European airspace compliance with the EUROCONTROL Link 2000+ mandate. Dlink+AOC contains the Link 2000+ CPDLC message set and VHF Data Link Mode 2 (VDLM2) networking requirements.

Certifications (STC)

Airbus: A319, A320, A321
Boeing: 727, 737 Classic, 737 NG, 757, 767

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spectralux.com