

In-Flight Reporting Tool

Applications: B2B/B2C

"The ability to transfer important data en-route enables efficient processing of the aircraft during the aircraft turnaround cycle."

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PROFILE:

The project objective was to provide a reporting system that would enable the in-flight reporting of airline operational data over satellite communication systems. The reporting system provides the Flight Crew and Cabin Staff with the ability to issue reports during all phases of flight. A ground-based server makes the reports available to both authorised personnel and legacy airline systems in real time over the Internet. The ability to transfer important data en-route enables efficient processing of the aircraft during the aircraft turnaround cycle.

The system is comprised of onboard and ground-based components. The onboard components enable a user to generate reports and ensure the dissemination of these reports over the appropriate communication channels, such as satellite, WiFi, GPRS and SMS. The ground component then makes the received reports available to authorised personnel via the Web, e-mail or SMS alerts. The reports are also translated and forwarded to existing airline systems.

The ability to assign value to data is a key requirement for effective use of available communication channels. For data of high value, such as critical defects or important operational data, it is essential to transfer the data en-route via satellite. For data of lesser value, such as manuals or updated schedules, data can be transferred during the turnaround cycle using low-cost GSM/GPRS or WiFi links.

Through the application of Satellite and Internet technology, an effective platform has been provided for the in-flight reporting of airline operational data. This platform ensures that aircraft are more efficiently processed during the turnaround cycle, offering significant economic gains for the airline.