Connected Aircraft GSN® from GE Aviation's Digital Group

GE Aviation's
Digital Group

Microsoft

GE Ground Services
Network (GSN)

Agenda

1. Aircraft Connectivity

2. Customer challenges

3. Introducing GE Aviation's GSN Offering

4. Built on Microsoft Azure

Optimizing data and analytics from flights

Delivering the right data, to the right people, at the right time

In service since 2012 supporting

100K+
Flights with full flight data

800+
Users including operators and OEMs

400+
Aircrafts
• 7 Aircraft types

On-demand and real-time aircraft fault, event and operations data

Customizable

Customizable solution to assess and improve maintenance strategies and processes across your fleet.

Data Security

Automatically decode, store, and distribute data to key stakeholders to enable efficient maintenance operations.

Visualisation

Visibility and analysis of key performance indicators across aircraft and fleet-wide operations.

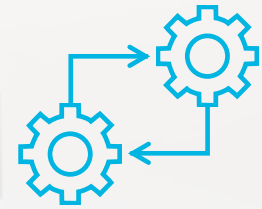# GE Ground Services Network (GSN)

GSN integrates data from the aircraft systems into a single snapshot view, including faults, events, OMS (onboard maintenance systems) that are utilized for FOQA, developing maintenance strategies.

Operator enablement

Better Availability

Enhanced Control

Operators have better control and insight into their aircraft operations, increasing availability of the aircraft.

In-flight data management

In-flight data notification

In-air data interrogation avoiding flight diversions

Real-time, secure, full aircraft data collection

Data analysis and visualization
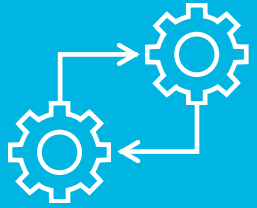
Post flight data analysis

Providing early warning of emergent aircraft faults

Preventing costly maintenance

Providing evidence for entry into service investigations.

Aircraft reports generation

Key Functions

- Single view of aircraft operational data
- View of connected aircraft and data usage

- Decode, display and analysis of recorded data
- Remote Parameter Display (RPD)
- Generation and review of in-flight data requests

- Support for user-defined analytics for operational insights
- Support for data anonymity by removing sensitive

- Parameters from the data – GPS location (for FoQA, EHM & AHM Performance reports)

Features

🗄️ Data Repository	✉️ Email Alerts
📊 Data Analytics	🗂️ Data Sharing
❓ In-Flight Data Query	☁️ Data Upload
📋 Aircraft Reports	👥 24/7 365 Support

Digital Hub

"Now we're able to retrieve from the aircraft and query the aircraft for thousands of individual data points," he said, adding this "allows us to develop capabilities to predict and ultimately prevent in-service AOG events."
– Derek Zimmerman
President Gulfstream Customer Support

- Web browser interface

- Integration with customer IT infrastructure for user-authentication and role-based access control

- Scalable and extensible for small or large fleets

- Support for customer-defined look and feel for seamless integration with existing web portals

Built on Microsoft Azure

GSN uses Azure's powerful storage and analytics.

Backup and storage

Machine learning*

Data and intelligence

Security and management

*under consideration

Next steps:

→ We'll connect you with the sales team for GE Aviation:

→ Kevin Duffner/Charles Pirrera

→ Learn more about GSN at: www.geaviation.com/digital

GE Aviation's
Digital Group

Microsoft