avSYNC

Immediate Automated Data Synchronization Service

Aviation has become very data-centric, with aircraft generating Gigabytes of flight and maintenance data annually, while airborne systems require regularly scheduled and repair-related software updates. In-Flight Entertainment systems also require mass storage devices. This has resulted in a steadily increasing workload for Maintenance, Engineering and IT departments.

Avionica's **avSYNC service** works with our suite of wireless data collection and management products to provide a comprehensive, secure, and time-tested data management service for commercial flight operators.

Scalable Performance

avSYNC is a secure, web-hosted application (SaaS) that does not require you to augment your IT infrastructure. Avionica hosts scalable, redundant servers in hardened server farms in support of your data requirements. Data is conveyed directly to and from our miniQAR, secureLINK, aviONS and avRDC solutions over secure, encrypted Virtual Private Network tunnels. Files may be transferred to or from any location with Internet access. Avionica's 4G wireless devices eliminate WiFi access point coverage, security, and maintenance headaches.

Predictable Pricing

avSYNC service is simple and affordable. Whether you operate one aircraft or 500, avSYNC provides users with one low fixed cost per aircraft for downloading flight data. Need to upload flight data? Avionica's avSYNC can provide that service as well, for a low fixed cost per Megabyte.

Fits All Requirement

As a technology company, Avionica knows the ongoing challenge of maintaining a stable, secure data network. As a Flight Data Management company, we also understand the proprietary nature of flight data. Avionica offers two configurations of avSYNC to satisfy airline requirements: Our Cache and Forward (CaF) configuration captures customer flight data via secure VPN and stores it on our servers. Once transferred, the data is conveyed to the customer's site (or Avionica's FDM/FOQA service or other FDM/FOQA provider). A copy may be retained if required, for as long as required.

Always Compatible

With avSYNC, you can rest assured knowing your data will be delivered quickly, securely, and in the same format in which it was generated. Whether it's flight data enroute to an FDM/FOQA department or third-party provider, or MP3 files enroute to your In-Flight Entertainment system.

Call Avionica for more details about how avSYNC can make your data management more efficient.
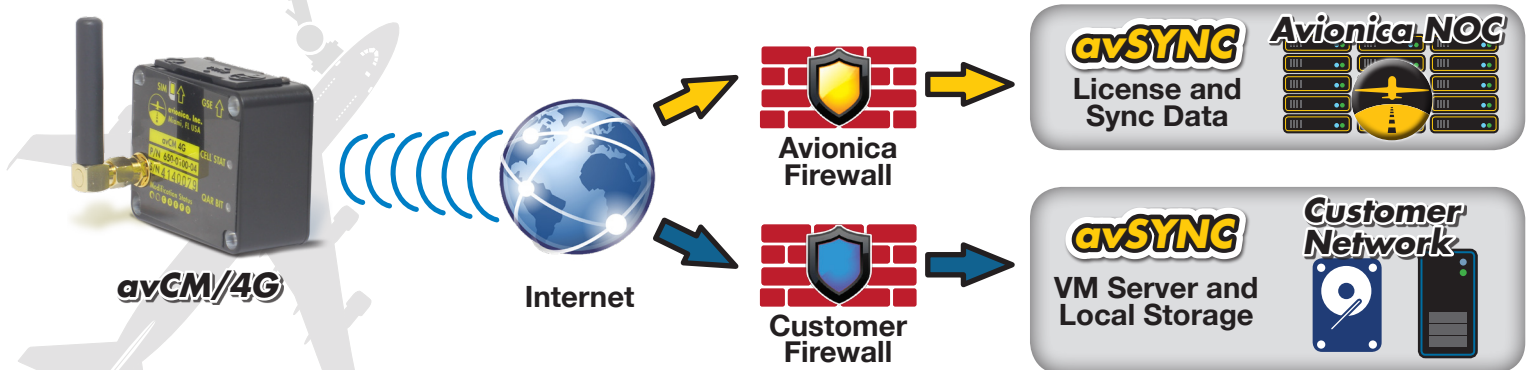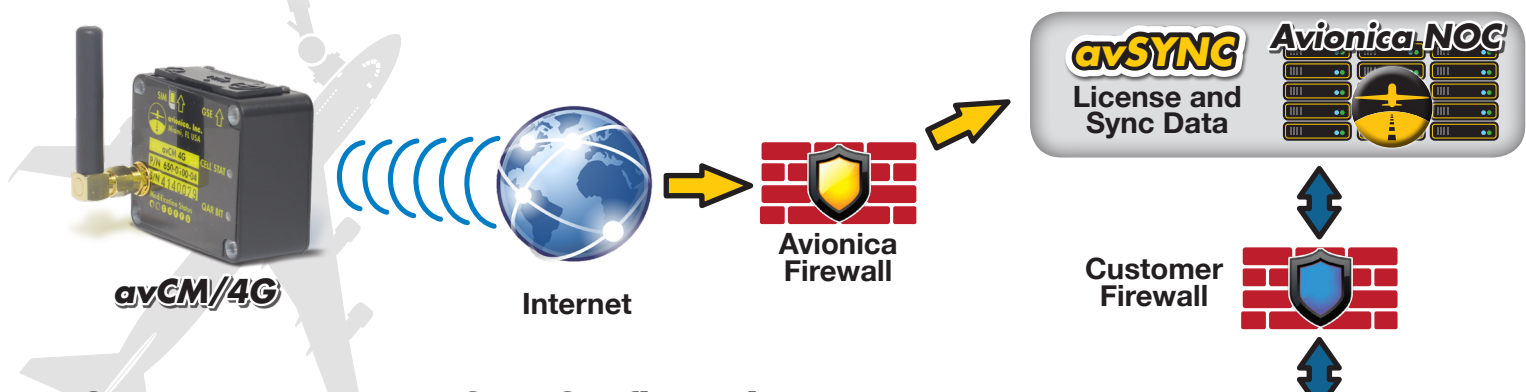
We're Ready to Help

Whatever you need, Avionica is ready to help. Our team will work with you to meet your data and communications management needs.
www.avionica.com

avCM/4G — **Internet** — **Avionica Firewall** — **avSYNC License and Sync Data** — **Avionica NOC** — **Customer Firewall** — **avSYNC VM Server and Local Storage** — **Customer Network**

avSYNC Topologies

• avSYNC Server inside customer firewall connects to the Avionica avSYNC VPN network
• Connection is persistent, enabling secure access by miniQAR or other devices via the Internet
• miniQARs (2) and other devices check in to Avionica's avSYNC Servers (3)
• Validated device check-ins are forwarded to the customer's Remote avSYNC Server (1), at the customer site
• Data is transferred from miniQARs directly to the customer's avSYNC server via the secure VPN network
• Data is stored to a local drive mapped within the customer's avSYNC server

avCM/4G — **Internet** — **Avionica Firewall** — **avSYNC License and Sync Data** — **Avionica NOC** — **Customer Firewall** — **CaF miniQAR CaF & Data Store / VM Server & Local Storage** — **Customer Network**

Cache and Forward (CaF) Configuration

• miniQARs (1) and other devices periodically connect to the Avionica VPN network via the Internet
• Connection is persistent, enabling secure access by miniQAR or other devices via the Internet
• miniQARs (1) and other devices check in to Avionica's avSYNC Servers (2)
• Data is transferred from the miniQAR directly to Avionica's avSYNC Servers (2) over the secure VPN network
• Data is stored in a secure Cache and Forward (CaF) data store awaiting customer client access
• avSYNC client (3) image running inside customer's firewall connects to the Avionica avSYNC VPN network
• Data stored in the Avionica Cache and Forward (CaF) data store is transferred to the client machine (3)
• Customer client stores data to a local drive mapped within the customer's avSYNC client machine

Minimum Local System Requirements

• Dual Core or better CPU
• 2 GB RAM (Solely for Virtual Machine)
• 25 GB Free Disk Space

• Network Adapter with Internet Access
• Sufficient Disk Space for Data Storage (or Remote Drive Mapping Capability)

• 32-bit OS, such as Windows XP/7, Windows Server 2003/2008/2008R2, Linux (including Redhat, esx, esxi, etc.).

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avionica
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