

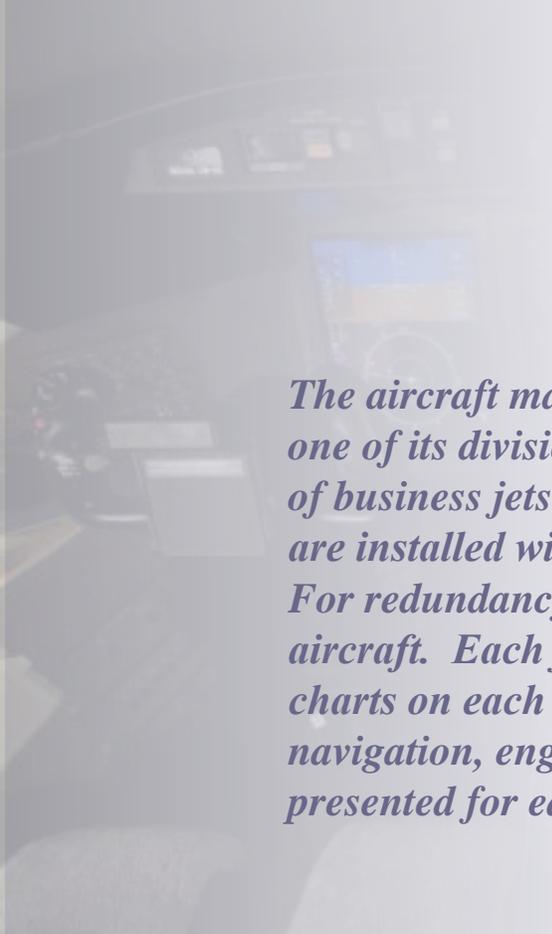


# Smarter MRO

This aircraft builder has figured out how to save over \$100,000 in a year with one simple solution.



**GPS LIVE INSIDE**



*The aircraft manufacturer discussed in this paper houses one of its divisions in Canada. They design/build a family of business jets at this location. Mid-sized business aircraft are installed with state of the art flight navigation systems. For redundancy, two systems are always included in each aircraft. Each file server unit (FSU) displays electronic charts on each multi-function display. All primary flight, navigation, engine and sensor data are graphically presented for easy scanning and integration.*



### **No GPS Signal Available for Testing**

At any one time, there are 15 - 20 aircraft being loaded with this navigation system. The aircraft are usually parked inside one of two hangars. After the navigation system was installed, it would take approximately one hour to move an aircraft outside to perform flight verification checks. Five avionic techs were required to move just one plane out of the hangar.

*Testing of avionics navigation equipment requires a GPS signal, which is not often available inside a hangar. MRO Hangar is a solution offered by GPS Source that conveys a live GPS signal inside an aircraft hangar for general testing, maintenance and repair of avionics equipment.*



*The MRO hangar solution eliminated the need to move our aircraft out of the hangars to test the flight navigation systems. For safety reasons, five technicians were previously required to bring a plane out of the hangar.*

*With the installation of the hangar kits, we no longer need to move the planes outside. Since we had 15 to 20 aircraft in each hangar at any one time, this led to significant labor savings exceeding \$100,000 annually.  
~ Functional Test Control Engineer*



## **Seeing Value in the Right Solution**

In October 2012, the aircraft manufacturer contacted a distributor of GPS Source looking for help. The distributor suggested a system that would bring a live GPS signal inside the hangars. When presented with GPS MRO Hangar from GPS Source, it was an easy decision to choose this solution.

### **Customized Solution**

This customized solution included multiple GNSS signal controllers, GNSS active and passive antennas, lightning protection, cabling and phone support.

Other solutions have been designed for hangars up to 1,000,000 sq. ft.

### **Conclusion**

With MRO Hangar, electronic avionics equipment installed in the aircraft were now able to receive GPS without leaving the hangar. A crew of five were no longer needed to tow aircraft outside for system checks. The manufacturer ended up saving over \$100,000 annually in labor costs with MRO-HANGAR.

To learn more about GPS MRO Hangar, please visit <https://www.gpssource.com/pages/aircraft-hangar-mro>



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### About GPS Source, Inc.

Since 2000, GPS Source has been developing solutions for the Global Navigation Satellite System (GNSS). This includes GPS & GLONASS Retransmission and Signal Distribution Systems. GPS Source, Inc. is an expert in GNSS retransmission and has established itself as an industry leader in developing safe, controlled solutions for GNSS and RF distribution.

