

ADS-B INTEGRITY™, Cobham AvComm's new software application, controls the IFR6000 or IFR6015 Transponder Test Set and GPSG-1000 Positional Simulator to support Supplemental Type Certification (STC) and post approval testing for ADS-B Out equipment installations. For R&D requirements, the application will control the IFF-45TS/A MK XII/A Bench Test Set and the GPSG-1000 for ADS-B Out performance. A complete detailed ADS-B Out compliance report in FAA format will be generated showing Pass/Fail criteria.

Features/Benefits

- ADS-B equipment installation verification
- Complete AC 20-165B fast and convenient reporting to identify installation issues
- STC support
- Eliminate post STC operational flights
- Coupled testing in the hangar or on the flight line, eliminates:
 - ✓ Open sky requirements
 - ✓ GPS repeater
 - ✓ Weather issues
 - ✓ Interference with ATC operations
- Saves time and money

Accuracy and Integrity Performance Test (requires IFR6000 or IFR6015)

- Parameter checks per 20-165B (91.227) and FAA ADS-B Operation Compliance Report
- Mode S address validation (from GICB to ADS-B and against known problem values)
- ADS-B Out performance requirements for SIL, SDA, NIC/NUC, NACp, NACv
- Latitude/Longitude positional accuracy per bounds of NACp
- Emitter category reporting

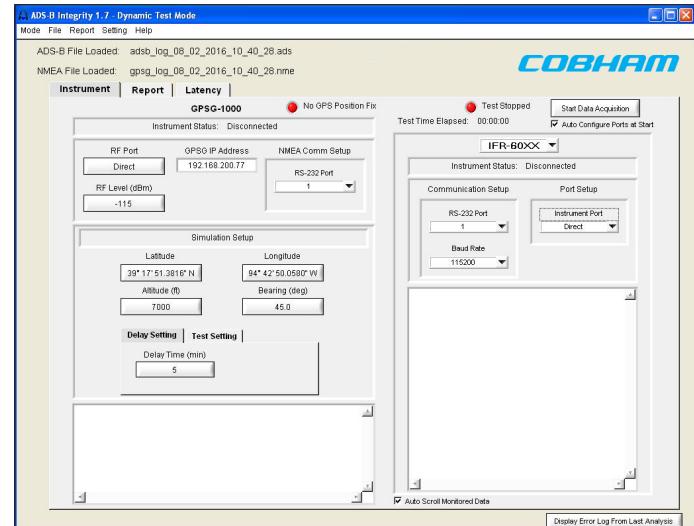
Positional Accuracy Test (requires GPSG-1000)

- Log of latitude and longitude positional data for evaluation of accuracy and integrity over a simulated flight path
- Exact simulated time and position information logged
- ADS-B squitter data received and logged
- Squitter positional data compared against coordinated simulation
- Logging and evaluation of SIL, SDA, NIC/NUC, NACp, NACv values in static or dynamic motion scenarios
- Logging of N/S, E/W Velocity data with reasonableness testing per bounds of NACv

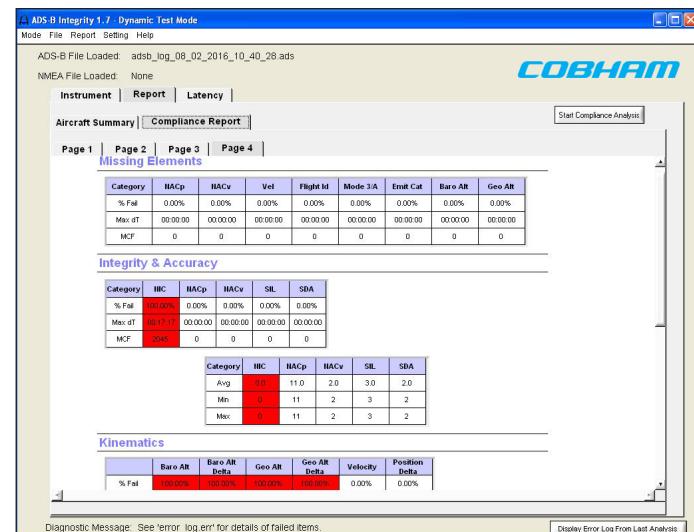
Application

Performance verification of:

ADS-B Transponders
UAT Transceivers
GPS Receivers



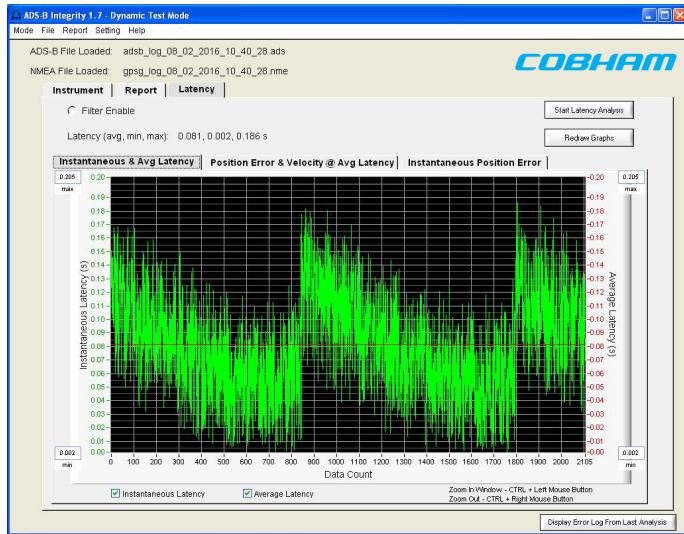
Instrument Setup



Data analysis screen identifies compliance failures

Latency

Plots of instantaneous and average system latency, velocity at average latency, and instantaneous positional error based on linear track are available.



Instantaneous Latency

PC Minimum Requirements

Windows® XP or Windows® 7 32-bit (or later)

CPU: Intel® Core 2 Duo P8400 2.26 GHz or equivalent

RAM: 2GB

Monitor: XGA (1024 x 768) or higher

Free Disk Space: 1GB

Required Equipment for ADS-B Installation/Verification and Compliance Report

Part No	Model	Description
72422 <i>or</i> (72424)	IFR6000	Mode A/C/S Transponder/DME Test Set
	IFR6015	<i>Military version including E-TCAS and TACAN</i>
83411	6000OPT3	ADS-B 1090 Mhz Option
112795	6000OPT5	UAT 978 Mhz Option (If applicable)
140609 *	6000OPT6 *	6000OPT6 ADS-B Integrity Test Option*
112350	UC-584 Kit	UC-584 Coupler Kit Single Antenna
87339	GPSG-1000	Twelve Satellite GPS Simulator
140607	GPSGOPT3	GPSGOPT3 ADS-B Integrity Test Option

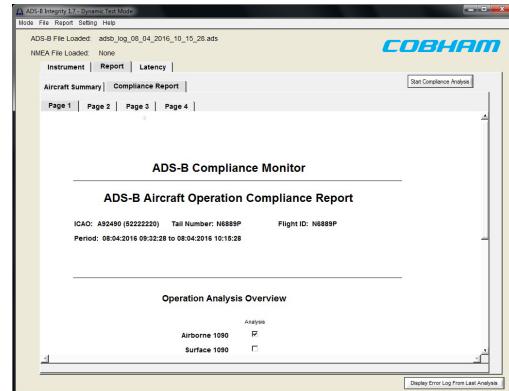
* This option includes the ADS-B INTEGRITY™ app.

Order Information

ADS-B INTEGRITY™ app is included with the IFR6000/IFR6015 Option 6. The below options are listed to show what accessories are included.

Order Number	Description
140609	6000OPT6 ADS-B Integrity Test Option
<i>Standard Accessories</i>	
140610	CD, ADS-B INTEGRITY™ app
140606	Cable, serial str thru DB9 F/F
108892	USB to serial adapter
140671	CD, ADS-B adapter drivers
11959	Cable pouch
140607	GPSGOPT3 ADS-B Integrity Test Option
<i>Standard Accessories</i>	
140604	Cable, ADS-B INTEGRITY™
121888	Cable, Ethernet 7ft
140599	USB to Ethernet adapter w/ 3 port USB HUB
108892	USB to serial adapter
140671	CD, ADS-B adapter drivers
11959	Cable pouch

140608 Option	IFF45TS/A-OPT10 ADS-B Integrity Test
<i>Standard Accessories</i>	
140610	CD, ADS-B INTEGRITY™ app
30050	Cable, molded shield DB9 data Line
140605	Cable, ADS-B Integrity™ IFF-45TS
108892	USB to serial adapter
140671	CD, ADS-B adapter drivers
11959	Cable pouch



Generate a full detailed compliance report in FAA report format

For further information please contact:

Cobham AvComm
10200 West York Street
Wichita, KS 67215-8935 [USA]
Phone: (316) 522-4981
Fax: (316) 524-2623
AvComm.TechSales@cobham.com

or contact your Cobham AvComm sales office