



Detect the Difference

Sensis Corporation Leads ADS-B Innovation

Sensis Develops Security and Efficiency Protocol Enhancements

DEWITT, New York – February 14, 2006 - Sensis Corporation announced that it has developed enhancements to ADS-B protocols. These enhancements include the ability to authenticate an ADS-B transmission and be assured of the pilot and aircraft from which it came; to encrypt data traffic for future applications with security needs; and to obtain additional data capacity. Additionally, Sensis has developed a modified ADS-B which enables the exchange of turbulence and weather data between aircraft and from aircraft to the ground. These modifications may be suitable to serve as the ADS-X datalink – the future datalink enabling 4D trajectory negotiation that is currently being discussed by a variety of industry groups.

“ADS-B is widely regarded as the key component of a future gate-to-gate aircraft surveillance system,” said Marc Viggiano, president, Sensis Air Traffic Systems. “Previously, Sensis pioneered the development and implementation of ADS-B, fielding the first operational ADS-B transceivers for both the Mode S Extended Squitter (1090 ES) and UAT datalinks. Today, Sensis is pioneering the development of technology that fully realizes the benefits of ADS-B.”

ADS-B allows aircraft to broadcast accurate and timely reports of their position, velocity, identification, capability and intentions to air traffic controllers and other aircraft. With ADS-B, pilots have a better view of air traffic in their vicinity and air traffic controllers have an improved situational display as well as important flight parameters that provide insight into the intended flight path of the aircraft.

Sensis is the world leader in ADS-B with more than 500 ADS-B transceivers deployed worldwide.

Sensis UAT ADS-B Activities Include:

- **U.S. FAA Capstone Program:**
Sensis UAT ADS-B is being used operationally for air traffic control in Alaska. This is the first operational use of UAT ADS-B. In addition to the original 78 transceivers supplied by Sensis, the FAA awarded the company a second contract to supply an additional 100 transceivers to the Capstone and Safe Flight 21 Programs.
- **U.S. FAA Safe Flight 21 Program:**
In an advisory capacity, general aviation pilots and flight schools are using Sensis UAT ADS-B deployed along the East Coast between New Jersey and Florida as well as in Arizona and North Dakota.

Sensis 1090 ES ADS-B Activities Include:

- **European and Asian Sensis MDS Programs:**
Eight of the ten busiest airports in Europe are deploying Sensis Multistatic Dependent Surveillance (MDS), which supports 1090 ES ADS-B.
- **U.S. FAA Airport Surface Detection Equipment, Model X Program:**
Sensis is supplying 1090 ES ADS-B tracking capability to 35 airports across the U.S. as part of a complete Advanced – Surface Movement Guidance and Control System. There are 140 such

sensors currently deployed at 11 airports.

- **Airservices Australia – Queensland Airspace:**

Sensis 1090 ES ADS-B is operational to provide Civil Aviation Safety Authority of Australia approved five nm separation between aircraft operating in the Queensland airspace. Further, demonstrations have proven that Sensis ADS-B accurately tracks aircraft 200 nm from the transceivers.

- **NASA Helicopter In-Flight Tracking System:**

Sensis provided 1090 ES ADS-B to evaluate the technology in the Gulf of Mexico as an alternative to traditional en route radar and as a solution for en route airspace surveillance above 24,000 feet. Test flights demonstrated that through Sensis ADS-B surveillance, an aircraft can be tracked for the entire flight over the Gulf, from Texas to Florida.

ABOUT SENSIS

Sensis Corporation provides sensors, information technology, simulation and modeling, and navigation technology to the world's militaries, civil aviation authorities, airports and airlines. The company designs, manufactures and installs multilateration/ADS-B ground stations for air and surface surveillance, and sensor data interface equipment for integrating new and legacy surveillance and automation systems. Sensis Corporation's equipment is deployed around the world, including more than 500 multilateration/ADS-B sensors and more than 1,600 sensor data interface devices in 25 countries on five continents. For more information regarding Sensis Corporation, visit www.sensis.com.

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