

SmartTraffic™ for TCAS Traffic Computer

Honeywell



TCAS WITH CHANGE 7.1 AND SMARTTRAFFIC

**Enhancing Flight Crew Knowledge for
Greater Safety and Operational Efficiency**

New clarifying display of traffic information enhances safety and operational efficiency

As air traffic continues to increase, airlines want to be sure they have the best safety equipment onboard. By partnering with Airbus, Honeywell's CAS 100 Traffic Surveillance System with Change 7.1 offers ATSAW with SmartTraffic technology. SmartTraffic technology is the foundation of the ADS-B and Airborne Traffic Situational Awareness (ATSAW) functions that provide a more intuitive display of surrounding aircraft, as it relates to their flight plan, for greater safety and operational efficiency.

There are currently three SmartTraffic applications that enable safety and efficiency:

- Airborne Traffic Situational Awareness (ATSA-AIRB)
- Enhanced Visual Separation on Approach (ATSA-VSA)
- In-Trail Procedures in Oceanic Airspace (ATSA-ITP)

Enhancing safety in the air is the objective of Airborne Traffic Situational Awareness (ATSA-AIRB). Honeywell's TCAS Traffic Computer with Change 7.1 and SmartTraffic enables this important safety improvement by utilizing advanced ADS-B information to display important aircraft information.

Enhanced Visual Separation on Approach (ATSA-VSA) increases efficiency during approach by enabling flight crews to maintain a more precise distance from the preceding aircraft on a regular basis to enhance runway capacity. While benefits

Honeywell Aerospace

Honeywell
1944 East Sky Harbor Circle
Phoenix, AZ 85034
North America: 1.800.601.3099
International: 1.602.365.3039
www.honeywell.com

are specific to the individual airports and approach configuration, SmartTraffic provides the necessary technology and display of traffic information that enables pilots to reduce fuel burn, noise and decrease the likelihood of a missed approach and enabling more timely landings. Some studies have shown an increase of airport throughput for as much as 20%.

Altitude changes are required for better fuel economy, winds and ride quality and are especially important during long oceanic flights. Honeywell's TCAS Traffic Computer with Change 7.1 and SmartTraffic is currently the only solution that enables pilots to see the traffic, optimize communication with ATC, and implement altitude changes while maintaining required separation minimums and reducing step-climbs. Studies have shown In-Trail Procedures in Oceanic Airspace (ATSA-ITP) can save as much as \$100,000 annually.

Hybrid Surveillance

Honeywell's SmartTraffic, enabled by the CAS 100 system with Change 7.1, is the only solution available with Hybrid Surveillance, another critical component to future air traffic modernization efforts and efficiency for both airlines and airports.

Hybrid Surveillance, utilizing ADS-B technology, reduces 1090 MHz frequency congestion by reducing the TCAS interrogation rate, opening 1090 bandwidth for future ADS-B applications. Additionally, hybrid surveillance is more robust at longer ranges and in congested airspace. Together, these features reduce workload for pilots and enable greater safety.

Why Honeywell?

Honeywell's TCAS Traffic Computer with Change 7.1 and SmartTraffic will be specifically TSO certification in February 2010 and will be the first air traffic situational awareness solution to enter into service. It is the only Airbus platform solution that does not require new TCAS hardware, which translates to significant savings per aircraft upgrade compared to other Airbus ATSAW solutions.



Honeywell is a pioneer in TCAS development with over 40 years of design and support experience and over 300 million logged departures. The CAS 100 system not only implements necessary safety logic, it improves situational awareness and safety in high density airspace through a more intuitive and informative display of traffic. It is also the only TCAS solution available with Hybrid Surveillance technology that uses state-of-the-art ADS-B In technology.

Advanced features of the CAS 100 system also reduce operating costs for airlines through improved system reliability and system flexibility. Software-based upgrades reduce future maintenance costs by enabling operators to easily upgrade their systems to the latest ADS-B requirements without changing hardware or wiring.

For more information: visit
www.honeywell.com/SmartTraffic

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