



100% GLOBAL COVERAGE UP-TO-THE-MINUTE AIRCRAFT TRACKING

Are you ready for GADSS?

GlobalBeaconSM is an easy-to-deploy solution to help make airlines compliant with International Civil Aviation Organization (ICAO) Global Aeronautical Distress Safety System (GADSS) standards. This solution leverages existing technology commonly available on most of the global aircraft fleet (ADS-B Out), well in advance of the November 2018 provisions implementation.

GlobalBeacon, a first of its kind product from Aireon and FlightAware, will detect your aircraft's position in real-time, everywhere in the world. Through Aireon's network of satellite-hosted space-based ADS-B receivers, aircraft equipped with ADS-B out transponders will be tracked automatically with their position broadcast in real-time. GlobalBeacon will be the most cost-effective and easy-to-deploy option available to airlines today, and with 100 percent worldwide coverage, GlobalBeacon will transcend borders and Flight Information Regions (FIRs), including polar airspace, to offer a truly global capability to help airlines meet or exceed GADSS recommendations and requirements.

WHAT IS GADSS?

In March of 2016, ICAO announced new Standards and Recommended Practices (SARPS) designed to help improve the ability to detect commercial aircraft in distress over remote and oceanic locations. Largely in response to the disappearances of MH370 and AF447, GADSS was born. Viewed as the first stage of what would become a mandatory regulation-based requirement for airlines, today GADSS is a non-prescriptive performance-based recommendation of best practices. The key components include:



Track aircraft at least once every fifteen minutes.



Recognize when an aircraft is in distress.



Receive position data at least once every minute when the airplane is in distress.

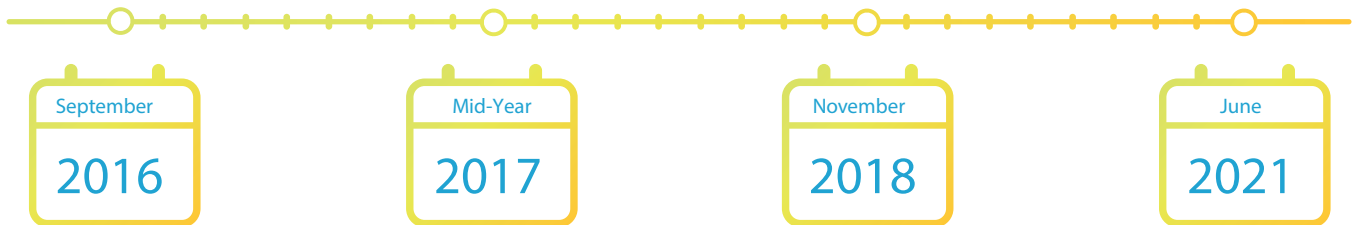


Notify surveillance and search & rescue agencies in the relevant airspace.



Function throughout the entire airline operating area.

IMPLEMENTATION TIMELINE



GlobalBeacon available from Aireon & FlightAware for airlines to meet GADSS requirements.

GlobalBeacon will be live and ready to utilize.

Implementation of revised provisions.

Autonomous Distress Tracking (ADT) required for aircraft in distress to report every minute.

In the short term, November 2018, ICAO has mandated that airlines develop a tracking capability that will provide information on longitude, latitude, altitude and timestamp at least once every 15 minutes.

In the longer term, starting with new aircraft delivered in 2021, ICAO has also mandated even more stringent requirements in the event of an aircraft experiencing a distress event. This is referred to as Autonomous

Distress Tracking (ADT). The airline is required to automatically receive position updates from the aircraft at least once every minute and to provide this information to applicable agencies who will respond in the event of an unplanned end of flight.

GlobalBeacon will help airlines become GADSS compliant by leveraging existing technology, well in advance of the November 2018 provisions

GlobalBeacon will help airlines comply with GADSS recommendations without additional avionics or equipage



How will GlobalBeacon work?

By combining FlightAware's web interface and worldwide airline flight tracking information – including origin, destination, flight plan route, position, ETA – with Aireon's space-based ADS-B network, airlines will receive the peace of mind that their assets are consistently being monitored through FlightAware's secure platform. The solution will provide airlines with a real-time aircraft tracking dashboard that features configurable alerts, providing immediate notification of abnormal events. Should an aircraft deviate from its intended flight path, experience severe turbulence or stop transmitting location, the aircraft will automatically enter distressed status and immediately notify its airline operations center, who can take appropriate actions.

GlobalBeacon will provide aircraft tracking capabilities starting in mid 2017, and 1-minute intervals, as the standard in 2018, far outperforming the 15 minute GADSS requirement. Airlines who sign up for the service will also be one step closer to meeting the 2021 requirement for minute-by-minute distress tracking.

SIGNING UP IS EASY.

Visit globalbeacon.aero and discover how to implement ICAO best practices for aircraft tracking and take GADSS head-on.

