

# ADS-B OUT EXPLAINED

# Automatic Dependent Surveillance–Broadcast

## WHAT IT MEANS FOR AIRCRAFT OPERATORS

Countries around the world are implementing a more accurate way of tracking aircraft. Called Automatic Dependent Surveillance–Broadcast (ADS-B) technology will eventually replace radar as the primary surveillance method for Air Traffic Control (ATC) monitoring and separation of aircraft.

The United States and other countries have published regulations mandating ADS-B on aircraft operating in their regions according to differing countries that don't yet require the equipment have designated special routes and airspace to benefit those who voluntarily equip.

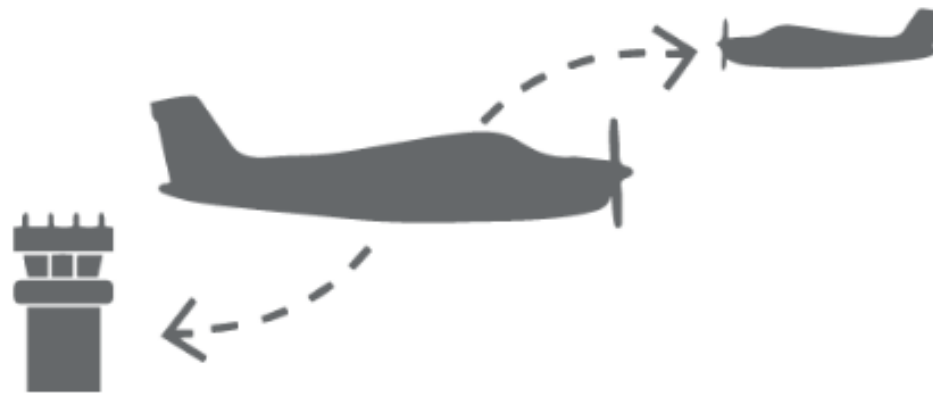
ADS-B allows equipped aircraft and ground vehicles to broadcast their identification, position, altitude and velocity to other aircraft and ATC. This is known as ADS-B Out. Being able to receive this information is known as ADS-B In.

"ADS-B Out is an evolutionary step in communication between the aircraft and other airspace consumers. Current transponders enable ATC to know your aircraft's relative position and altitude. ADS-B adds important information to help project and prevent traffic conflicts by estimating its path. Jake Biggs, Textron Aviation's aftermarket engineering manager.

### ADS-B advantages

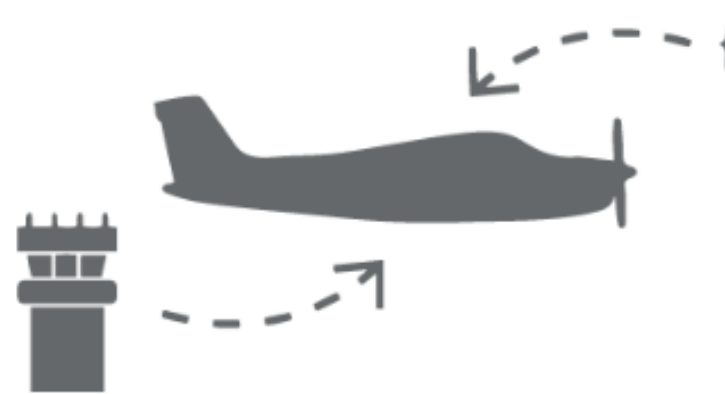
- Increase capacity and efficiency of airspace
- Expand ATC surveillance into more areas

### ADS-B Out



Broadcasts identification, position, altitude and velocity to other aircraft and ATC.

### ADS-B In



For some aircraft, it receives broadcasted information, including air weather data and pilot reports.