uAvioni

FAA SAI
SURFACE AWARENESS INITIATIVE

In 2021, an Operational Needs Assessment (ONA) was conducted that identified the need for increased surface situational awareness at airports which currently are not equipped with surface surveillance equipment to reduce runway incursions. The FAA has identified over 230 airports that are potential candidates for an SAI solution.

SAI will deliver innovative, cost-effective technological solutions to airports without existing surface surveillance capabilities to expand Air Traffic Control's (ATC) surface situational awareness. SAI solutions will leverage Automatic Dependent Surveillance Broadcast (ADS-B) as a primary source of aircraft position both on the surface and in airport arrival and departure corridors.

FlightLine™
BY UAVIONIX

FlightLine is uAvionix's airport SAI solution approved by the FAA for Air Traffic Control (ATC) tower use. FlightLine displays ADS-B targets on both 1090 MHz and 978 MHz, including aircraft and ground vehicles equipped with VTU-20.

FlightLine and VTU-20 work together to reduce runway incursions and provide airport operations and ATC complete airfield awareness.

MODERN, EFFICIENT & AWARE

FAMILIAR, YET MODERNIZED ARCHITECTURE

- Modernized architecture derived from proven Surveillance & Broadcast Services (SBS)
- Cloud-based, web-browser user interface (UI) modeled after ASDE-X
- Fully operational system deployed at over 100 airports nationwide

ROBUST, EFFICIENT IMPLEMENTATION

- Low Size, Weight and Power (SWaP) Ground Based Receivers minimze installation requirements and time
- Virtual site-planning and portable solutions expedite implementation planning and execution

SUSTAINABLE SUCCESS

- Centralized management coupled with system and equipment redundancy add reliability and continuity for operations
- 24/7 customer support and flexible training solutions provide for rapid adoption and continued use

ARCHITECTURE

- FlightStation GBRs provide overlapping coverage on a diverse set of backhaul solutions
- Auto-scaling multi-tenant cloud architecture isolates each airport, providing development, staging, and production instances for change management
- Dedicated Service Volume (SV) manager monitors, logs, and reports on Technical Performance Measures (TPM)
- Web based display accessible from any internet web-browser reduces installation burden in ATCT through use of GFE computers and Mission Support network