SmartSky Networks partners with GE Aviation and Mosaic ATM

The conceptualized cloud-based FMS will allow air traffic controllers real-time trajectory and airspace management planning

SmartSky Networks announced a collaboration with GE Aviation and Mosaic ATM to enhance Flight Management Systems (FMS) and Air Traffic Management (ATM) for Advanced Air Mobility (AAM).

A January 11 press release said the combined work effort, conducted under a NASA Innovation Award, connects the airborne and cloud-based FMS to optimize airspace management while maintaining critical flight safety controls and serves as a key enabler for AAM, which promises to bring thousands more aircraft into the airspace in the coming years.

“Fast access to data is central to ensuring the Advanced Air Mobility sector can safely further its operations protocols. Our work with GE Aviation and Mosaic ATM brings numerous benefits to the domain by addressing regulatory challenges, maintaining critical safety standards, and providing a force multiplier for airspace management,” said David Claassen, Chief Technology Officer, SmartSky Networks.

The conceptualized cloud-based FMS will allow air traffic controllers real-time trajectory and airspace management planning by expanding and optimizing available data inputs and processing capabilities

across a greater number of relevant sources, according to the release.

“Advanced Air Mobility FMS presents unique space, power, and processing requirements but GE Aviation, Mosaic ATM and SmartSky Networks working together have identified ways to address these challenges. By combining both airborne and cloud-based FMS systems – coupled with a reliable, low latency network, we can address processing needs and still meet critical safety standards for flight control,” said Gary Goz, Navigation Systems Product Director, GE Aviation.

Todd Kilbourne, Senior Program Manager, Mosaic ATM, said working with SmartSky and GE Aviation allows their development of next generation technologies and procedures for traffic management systems to be fully utilized both on the ground and in the air.

“Having dependable, high-speed, secure and interoperable connectivity enables the cloud-based FMS to further enhance National Airspace System (NAS) safety and improve capacity to the benefit of all users,” said Kilbourne.