RELIABLE AND SECURE PRIVATE NETWORKS ARE CRITICAL FOR TODAY'S DIGITAL AVIATION ECOSYSTEMS

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Wow, what an exciting time to be in the aviation business. Despite the impacts of the COVID-19 pandemic, we're witnessing a digital transformation of the air transportation system that will enable a fully connected aviation ecosystem where all the participants can have access to information they need to better manage their operations. With the introduction of new technologies and the advent of drones, urban air mobility and commercial space flight, having a reliable, secure network for data exchange is paramount to maintaining the safety of our national airspace system.

From ground automation platforms to those on the aircraft, today's ecosystem is more intelligent and generates data with more volume, variety and veracity than ever before. Seamlessly curating and uniting this flow of data across the aircraft, airline and ground applications is leading us to create more insights, more efficiencies and more opportunities. Sustaining the health and wellbeing of this connected aviation ecosystem boils down to successfully managing the data as it travels continuously across a safe and secure network dedicated for this purpose.

Collins Aerospace currently operates the biggest, private, ground-based network dedicated to supporting more than 3,000 stakeholders in the aviation community. We do so by enabling them to effectively communicate and share vital information with business partners, operators and applications around the world.

Our ARINC Global Network (AGN) provides a single point of access to a huge community of air transport users, partners, vendors and suppliers, including:
- Air Navigation Service Providers
- Cargo systems and handlers
- Manufacturers and maintenance providers
- Global and regional ground handlers
- Global Distribution Systems/Passenger Service Systems
- Government border agencies
- Airport authorities and systems
- Baggage systems

For perspective, this network spans 180 countries and has connections to more than 600 data processing centers, over 50 government border agencies and more than 220 airports. On an average day, the AGN delivers more than 75 million messages associated with critical airline mission operations and back-office transactions. More importantly this core network has provided 99.999% reliability on a global basis for more than 20 years.

The AGN is a fully interoperable network with core nodes geographically distributed in North America, Europe, the Middle East and Asia. This interoperability allows customers to communicate and share vital information with business partners, operators and critical applications across the globe using any protocol or format and a variety of connection types.

Because many of the applications we develop are mission critical, we place a great deal of emphasis on the security aspects of the AGN network. From its inception, the AGN network was designed with a "defense-in-depth" security strategy that includes multiple enterprise-level security policies, procedures, standards and guidelines. And we continuously monitor the network for threats through our 24/7 Cyber Security Operation Center.

Besides security, making sure the network remains "future-proof" and resilient is at the forefront of our development efforts. By applying the latest network technologies such as Software Defined Wide-Area Networking (SD WAN), the AGN is positioned to meet the needs for scalability, dynamic traffic management and improved operational efficiency.

The aviation industry depends on timely, secure exchanges of information to keep operations running smoothly. Collins remains a trusted partner in getting the right information to the right destination at the right time both today and into the future.