SHIFT5 FOR AIR CARRIERS

The world's most comprehensive data and cybersecurity platform for planes, trains, and tanks.



Gain complete observability over your connected fleet.

Modern connected aircraft provide differentiated customer experiences and ease maintenance, repair, and overhaul (MRO) operations, but they also create new challenges. They use faster, more advanced Internet-protocol (IP)-based systems, as well as traditionally isolated onboard operational technology (OT) systems, which generate vast amounts of raw data.

This data has to be collected and analyzed for security purposes, but it also holds valuable intelligence that often remains siloed. Processing this data using existing flight data management (FDM) systems can be cumbersome, and these systems aren't designed to make cybersecurity assessments. But with comprehensive analysis and correlation, this intelligence can complement your existing operations to help make time- and resource-constrained teams faster and more efficient.

The Shift5 Platform:

The Shift5 platform collects, analyzes, and correlates network data from each aircraft to provide you with complete observability across your entire fleet. The platform centralizes aircraft data and analysis, giving you quick and easy access to information that can help you improve aircraft maintenance, airline operations, and your fleet's cyber resilience.

Bringing data together from across your fleet and aligning it with your business systems and processes paints a more complete picture of your connected fleet's health, performance, and security. You can also share information and insights with other teams, like flight operations and maintenance, that arms them with data to prevent costly delays, helping you build trust across the organization while ensuring your passengers depart and arrive on time.

Shift5 is the only platform purpose-built to protect critical transportation infrastructure so you can maintain the safety and security of your crew, customers, and connected fleet.

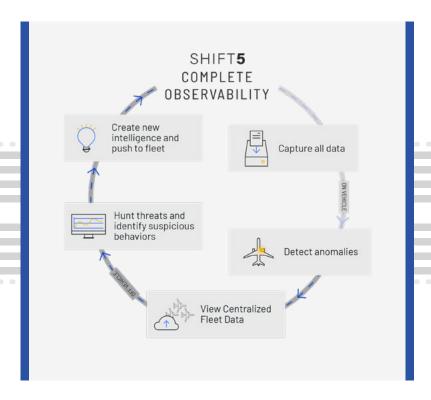
EXAMPLES OF CONNECTED AIRCRAFT



- Airbus A220, A320, A330, A350, and A380 families
- Boeing Next Generation 737, 737
 MAX, 747-8, 767, 777, and 787
 Dreamliner

How it Works

The Shift5 platform collects log files and other telemetry from a connected aircraft's onboard systems. Using a rules-based model, the platform analyzes this data to identify anomalies, including those that could have resulted from system faults or failures, human error, or malicious intent.



The platform correlates data from across your fleet and your business to surface new insights about fleet performance and cyber resilience. And the Shift5 platform centralizes everything, so your personnel have access to fleet-wide data and analytics in one easy-to-use, web-based console.

Identify risk and ease the burden of regulatory compliance.

Capturing and analyzing event logs from connected aircraft are initial but essential steps in identifying and mitigating risk. Doing so is also a requirement for compliance with regulations, standards, and guidance like ARINC 852 and an AC-119-1 Aircraft Network Security Program (ANSP).

The Shift5 platform does both. The platform identifies deviations in normal logging behaviors and performs event risk scoring to help prioritize your response. It also provides additional context that can help you quickly determine an issue's root cause. If an event warrants investigation, you can package details in the Shift5 console for export to your internal teams, the manufacturer, or the responsible agency.

Aggregate different datasets to uncover new insights.

Analyzing different data from multiple sources can provide new data that opens up new use cases, but connecting these dots takes time and resources you don't have to spare.

The Shift5 platform correlates datasets like log file analysis, telemetry data from sensors, airplane health management, airline flight operations, weather information, and more, to unlock additional insights about your fleet's performance, safety, and cyber resiliency. Armed with this new data, you can enable different use cases like operational efficiency analysis, cyber risk assessment, and incident response.



Next Steps

Gaining observability into the data traversing the networks of connected aircraft is a journey.

To learn more about the possibilities, visit shift5.io to schedule a briefing. Classified briefings are available to organizations with the proper security clearance.

About Us

Shift5 is the OT cybersecurity company that protects the world's transportation infrastructure and weapon systems from cyberattacks. Created by founding members of the U.S. Army Cyber Command who pioneered modern weapons system cyber assessments, Shift5 defends military platforms and commercial transportation systems against malicious actors and operational failures. Customers rely on Shift5 to detect threats and maintain the resilience of a wide variety of operational technology systems, including aviation, rail and metro, defense, helicopters, and other heavy fleet machinery.

For more information, visit shift5.io





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