PRESSURE

FLIGHT HOURS

DEGRADED GENERATOR

REPAIR RECOMMENDED

OPERATING CONDITION

To learn more, go

collinsaerospace.com/ascentia

Collins Aerospace
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collinsaerospace.com

Collins Aerospace

WHERE DATA AND SYSTEMS EXPERTISE TAKE FLIGHT

A more intelligent, data driven analytics service

Collins Aerospace

TURN YOUR DATA INTO
CUSTOMIZED, PREDICTIVE AND ACTIONABLE INSIGHT

Every day, on every flight, a vast amount of data flows into and out of the systems on your aircraft.

At Collins, we understand what data is important and how to make it valuable for you. We have the design, manufacturing and integration expertise to deliver the most robust analytics services for aircraft.

With Ascentia® we gather, filter and analyze your data, then leverage it to help improve your airline operations. Ascentia is helping to make the world's best airlines even better.

Informing, then empowering

Ascentia uses three core data analysis methods to make airline operations more reliable:

- Physics-based modeling
- Statistical analysis
- Machine learning

With these methods, our technical specialists apply systems expertise, providing you with predictive maintenance recommendations to support preemptive repairs. You'll have the expert guidance you need to improve dispatch reliability, reduce unplanned maintenance and optimize maintenance schedules.

PROVEN RESULTS

~30% decrease in potential delays[1]

~20% decrease in unscheduled maintenance[2]

[1] Related to Collins Aerospace components: 30% decrease in potential delays and cancellations related to components and systems monitored on the Boeing 787 fleet

[2] Related to Collins Aerospace components: 20% decrease in unscheduled removals for various components on the Boeing 777 fleet

Monitor, analyze and act

Service across your component value stream

When you add our FlightSense® managed services program to Ascentia, you can manage your entire component value stream through the peerless expertise of Collins Aerospace, your components' OEM.
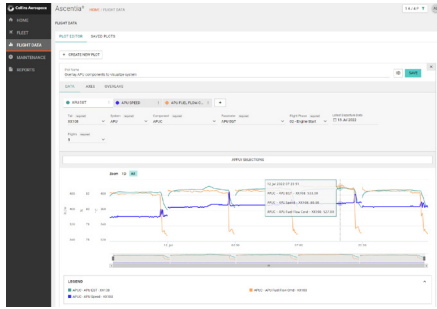
Your fleet takes flight

Ascentia provides analytics services to help chart the path to an intelligent future with your data.
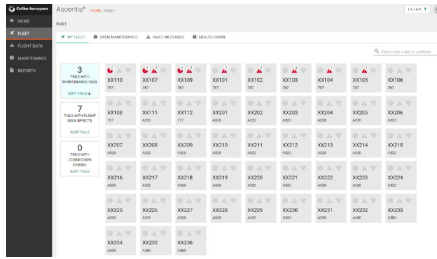
Continuous improvement

Ascentia leverages emerging trends in data science for development of best-in-class analytics. With an eye towards continuous improvement, these analytics are consistently refined based on global analytic performance.
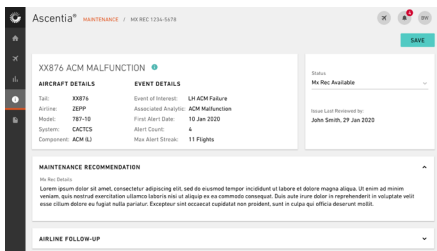
FLEET DATA VISUALIZATION

With the ability to plot full-flight and snapshot data, you can create and save custom graphs. Further customize your data visualizations by overlaying events and maintenance recommendations. Adjust axes to focus in on the data most important to you.
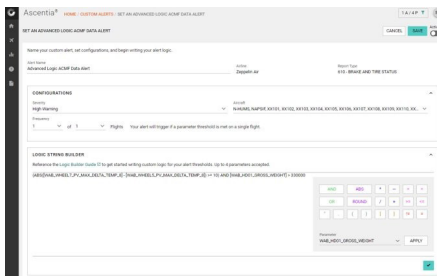
FLEET MONITORING

Your fleet will be proactively monitored by Ascentia experts. Receive real-time alerts and notifications that are based on our proprietary predictive algorithms. Aircraft and alert details will be at your fingertips, enabling immediate action for preemptive repairs and maintenance optimization.

FLEET RECOMMENDATIONS

Keep track of your fleet recommendations and corresponding activity in one place. Any issues triggered by Ascentia analytics are tracked and updated by our fleet monitors right in the application, including direct communication between you and our team.

CUSTOM ALERT

Develop your own analytics to monitor and track your fleet. Gain important insights, develop, deploy, and monitor a predictive algorithm in minutes using your own operational data – all in a low code/no code platform.

Collect and transmit the right data

With the vast amount of data on your aircraft, we perform rigorous evaluation processes to ensure the right data is collected to inform more efficient and effective operations.

Apply our systems expertise to your data

Since we design, develop and manufacture the component, we have an acute understanding of how to accurately and efficiently monitor and address the health of the part. This includes maintenance and service, both on- and off-wing.

Analyze and dashboard your data, all in one place

Get up and running faster with pre-created Ascentia dashboards—or create your own. A sandbox dashboarding environment lets you blend your maintenance data (log pages, work orders, etc.) with your aircraft sensor data, giving you best of both worlds: standardized and custom capabilities.

Advanced data analysis for actionable decision-making

Supported by a team of data scientists, engineers, fleet monitors and customer success leads, we ensure maintenance recommendations are delivered in a complete and timely manner to help optimize your fleet's performance.