ASCENTIA® ANALYTICS SERVICES

PREDICTIVE AND ACTIONABLE INSIGHT

Advanced data management and analytics services

Every day, on every flight, vast amounts of data flows into and out of Collins Aerospace systems on an aircraft. At Collins, we understand what data is important and how to make it valuable for your airline. Our Ascentia® analytics services aggregate key data elements, providing actionable insights to your airline, such as:

- Full flight data, condition monitoring reports and fault messages

- Airline operations data, including utilization, maintenance records, removals, schedule interruptions, flight routes and inventory

- Repair data, including as-received tests, inspections and shop findings

Three core data analysis methods are used by Ascentia to deliver insights: Physics-based modeling, statistical analysis and machine learning. Through advanced data management and analytics – including prognostics and health management (PHM) – our Ascentia services deliver clear and prescriptive guidance on the Collins Aerospace components on your fleet.
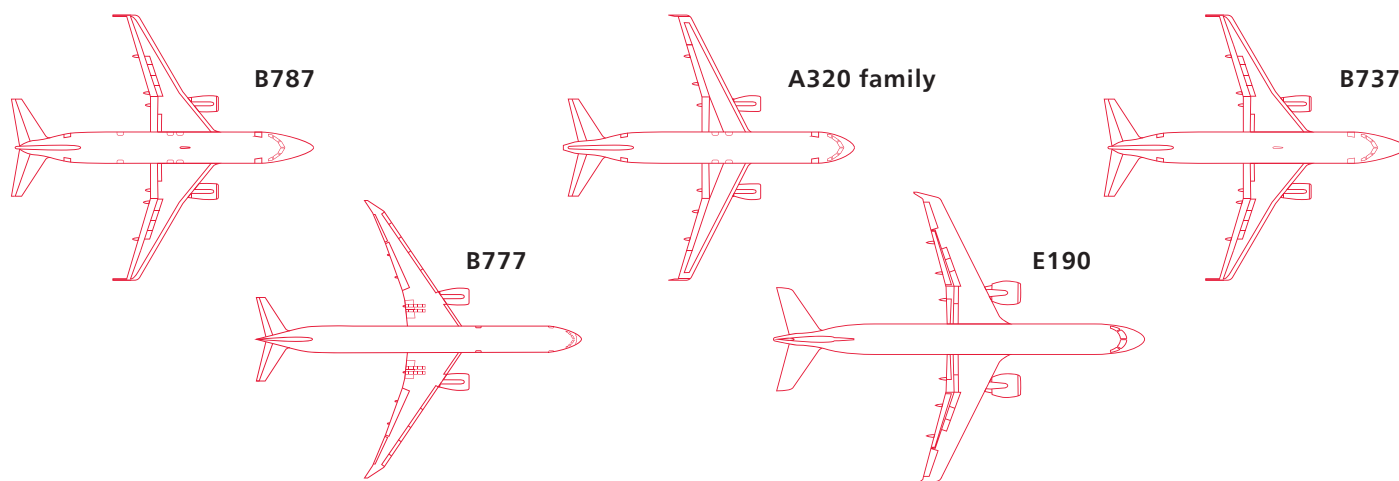
Ascentia services are designed to bring fast and actionable insights to your fleet operations including:

- **Irregular operations (IROPS) avoidance** – helps turn unplanned maintenance into planned maintenance and quantifies the cost savings

- **Improved decision making** – a single source of truth from information provided by different data sets

- **The right data at the right time** – a single hub of cleansed and aggregated data from siloed information technology (IT) solutions that don't speak to one another

KEY FEATURES & BENEFITS

- Cross platform, hardware agnostic, nose-to-tail analytics available

- Blend your aircraft and operational data, all through one tool

- In addition to Collins' standard analytics, build your own using the Ascentia Custom Alerts tool, leveraging advanced logic and statistical features

- Manage your maintenance control and tech support workflow

- Collins' 24/7 fleet monitoring team ensures your always covered

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Collins Aerospace

PLATFORMS MANAGED BY ASCENTIA

B787

A320 family

B737

B777

E190

Air management systems ATA 21	Electric power systems ATA 24	Interiors/galleys ATA 25	Flight controls ATA 27	Fuel systems ATA 28	Hydraulic power ATA 29	Anti-ice systems ATA 30	Landing systems ATA 32	Navigation & Air data systems ATA 34	Pneumatic & Bleed ATA 36	Water and Waste ATA 38	Inert gas systems ATA 47	Auxillary power ATA 49	Engine ATA 7X

DATA SOURCES TO INTERFACE

While not an exhaustive list, this table shows some of the data sources that enable the creation of additional insights. Access to data sources includes both live and historical data.

DATA TYPES/SOURCES	AIRCRAFT DATA	OPERATIONAL DATA
Full flight recording (e.g., QAR, SAR, CPL)	✔	
Snapshot reports (ACMS, ACMF)	✔	
Fault messages (e.g., FDE, MM, PFR)	✔	
LRU removal records		✔
Aircraft event data (e.g., delays, cancellations, substitutions, RTG, ATB, diversion, AOG)		✔
Aircraft utilization data (e.g., aircraft hours and landing reports)		✔
Aircraft logbook data (e.g., PIREPs, technical, maintenance or cabin logs)		✔
LRUs and aircraft configuration changes (e.g., P/N, S/N, SB, STC)		✔
Aircraft maintenance schedule (e.g., A-checks, B-checks, C-checks)		✔
Shop/MRO maintenance records		✔

Specifications subject to change without notice.

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learnmore@collins.com
collinsaerospace.com