



L3HARRIS™
FAST. FORWARD.

FLIGHT DATA CONNECT

Proven Flight Data Analysis Service





WHAT IS FLIGHT DATA CONNECT?

CONNECTING THE BEST ANALYSIS TOOLS TO FLIGHT DATA ACROSS THE WORLD.

L3Harris has over twenty years of experience as the largest providers of Flight Data Monitoring (FDM) and analysis for all operators. Flight Data Connect incorporates FDM and Flight Operations Quality Assurance (FOQA) into an intuitive, proven and secure web-based platform. With over 150 customers and global analysis of over 7,600 flights daily, L3Harris is committed to advancing aviation safety through the innovative use of global flight data.

Flight data analysis is the process of examining flight data to improve and monitor operational safety. Implementing Flight Data Connect will allow operators to compare actual flight measurements taken from “black box” data against your Standard Operating Procedures (SOP). This safety critical insight provides essential feedback, highlighting any occurrences where safety may have been compromised so you can implement corrective actions. Flight data analysis forms a key element of the Safety Management System (SMS) allowing you to identify, quantify, assess and address risk factors.

Identifying unsafe events regularly enables operators to incorporate actions or additional crew training needed immediately. Additionally, maintenance data directly assists in cost savings by highlighting inefficiencies and preventative maintenance needs which can immediately reduce AOGs and operational delays.

With Flight Data Connect, operators can benefit from:

- > Secure, scalable web-based platform for fast, automatic data access
- > Advanced analytics, and trend analysis highlights key safety issues and provides actionable insights from large datasets
- > Multi-user defined access enables customized dashboards and reports for the various users and functions within the operations
- > Data aligned to each customer’s unique set of SOP, or defined thresholds
- > Customizable dashboards with easy drag and drop analytic capability
- > De-identified data allows for global, platform-based and industry-based benchmarking comparisons across fleets and operational analysis
- > Ability to fuse multiple data sources fosters expansive solutions portfolio
- > Compliance with international civil aviation regulations
- > Service and support worldwide



SERVICE WITH A DIFFERENCE

A PROACTIVE APPROACH TO FLIGHT DATA ANALYSIS AND FLIGHT SAFETY

Operators easily access Flight Data Connect using our secure, scalable web-based platform aligned to each customer's unique set of SOPs, or defined thresholds for fast and automatic data access. The customizable, multi-user access enables reports for the various users and functions within the operations. Automated analysis highlights level 1 and 2 events, and human validation services performed by aviation experienced flight data analysts, backed-up by data science algorithms, ensure the highest level of data quality.

L3Harris continually works with customers and partners like Rolls Royce and IATA to provide advanced flight data analysis tools that allow operators to quickly identify, quantify, assess and address Safety Management System (SMS) risk factors and equipment performance.

International Air Transport Association (IATA) is the trade association for the world's airlines, representing some 265 airlines or 83% of total air traffic. They support many areas of aviation activity and help formulate industry policy on critical aviation issues. Flight Data Connect connects directly to the world's largest flight data sharing program, IATA's Flight Data eXchange (FDX), allowing you to compare your operation to the FDX benchmark*.

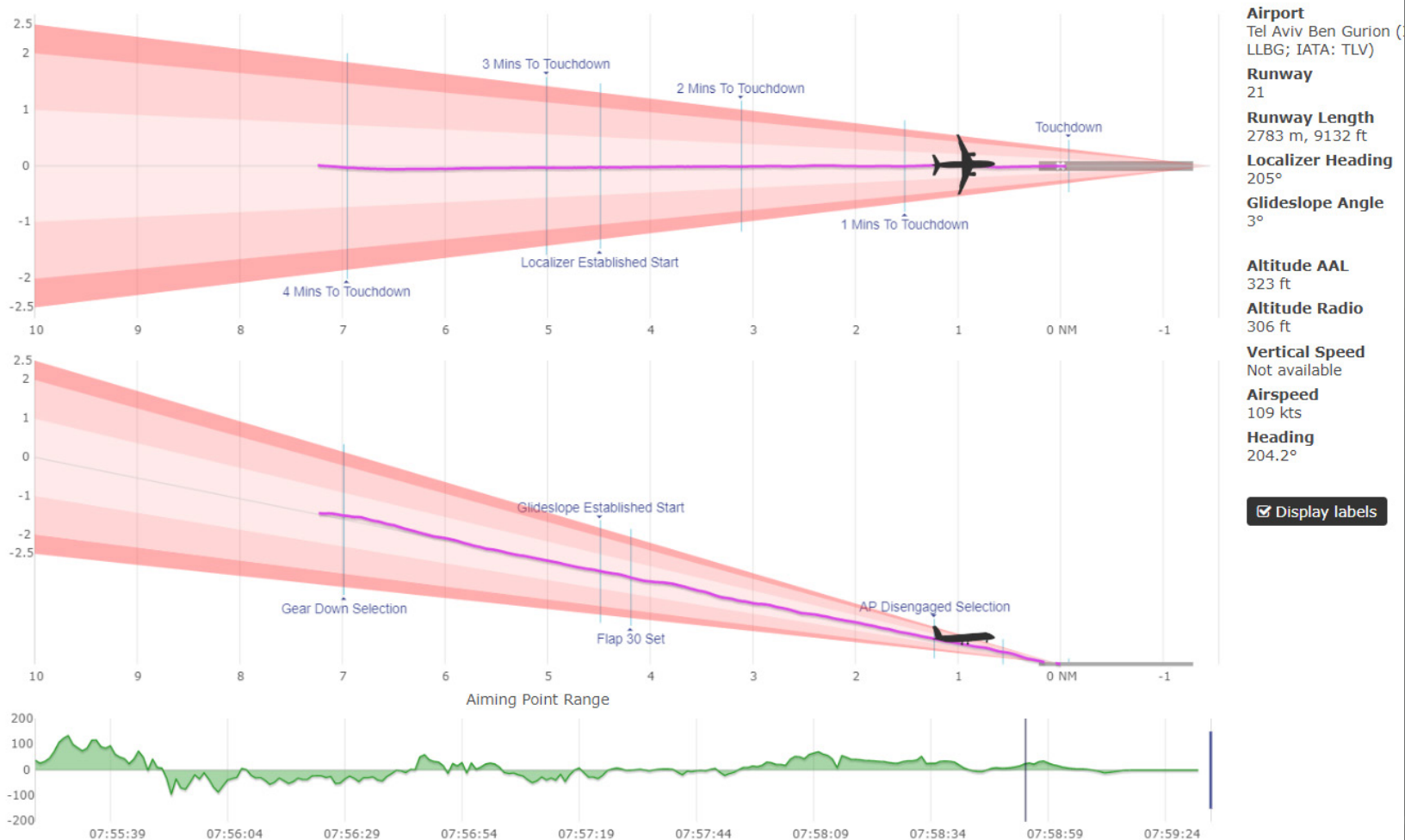
**MICHAEL WHANNELL, CHIEF PILOT,
JACK HENRY & ASSOCIATES, INC. (USA)**

"One of the central cores of the success of our FOQA program has been maintaining not only the security and accuracy of our information, but ensuring the presentation of the data analysed was manageable and pertinent. We feel we certainly obtained this with this company and their POLARIS engine."

**ANTHONY BARRETT-JOLLEY, FLIGHT SAFETY
OFFICER, AIR CONTRACTORS (IRELAND)**

"In my opinion FDM/FOQA properly and sensitively managed is an enhancement of flight safety on a par with EGPWS/TAWS. The management and staff at FDS have been helpful and constructive and I commend their service."

*Requires membership in the IATA FDX program.



VERSATILE FLIGHT DATA ANALYSIS

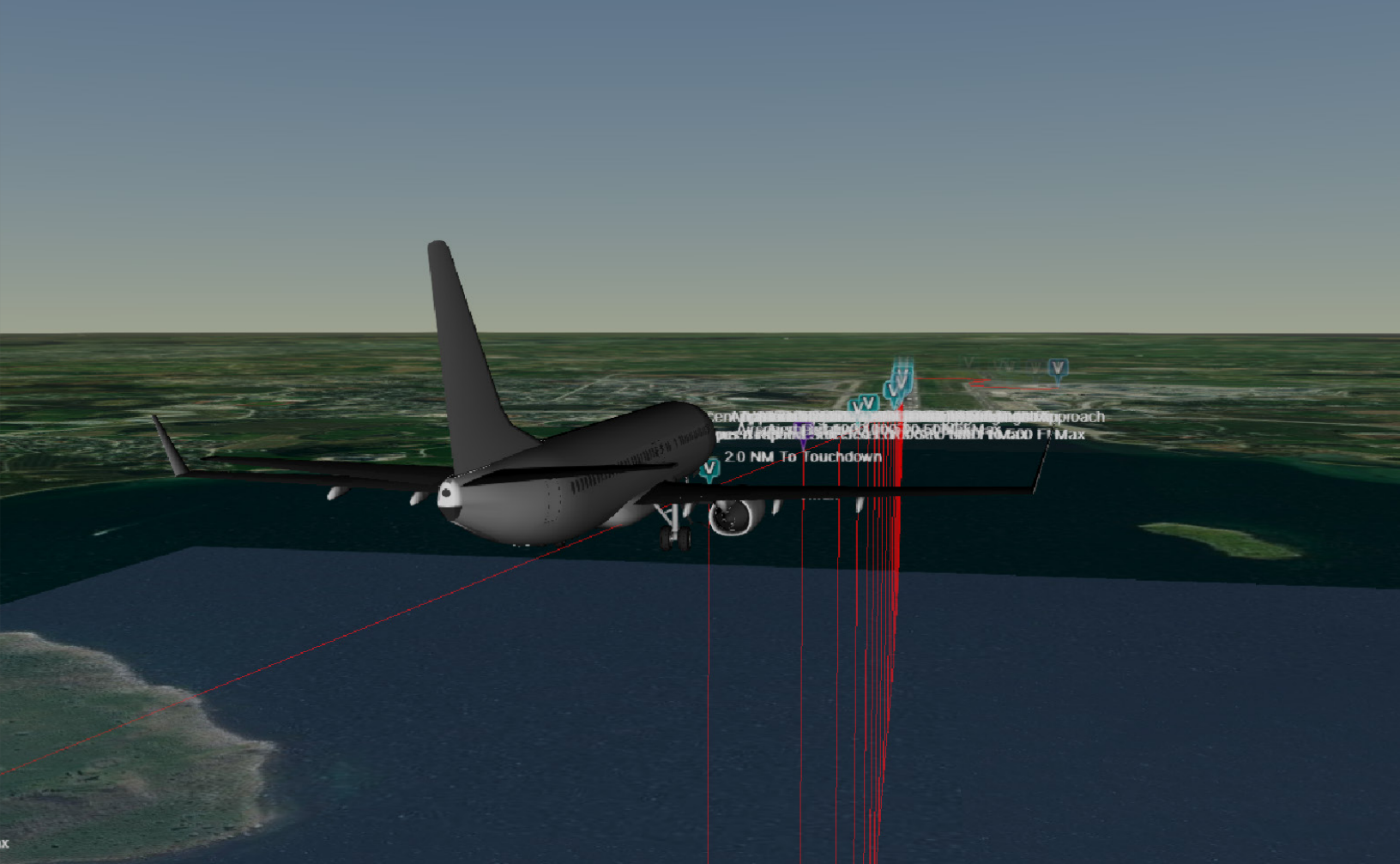
SECURE, SCALABLE WEB-BASED PLATFORM

Flight Data Connect includes everything you need to securely upload your flight data. Within minutes of upload, flight information, details of maintenance exceedances, graphs and visualizations are all available, providing you with the information you need, fast. The multi-user defined access enables customized dashboards and reports for the various functions within the operations.

Taking advantage of our proven platforms allows operators to outsource flight data solutions cost-effectively for all fleet sizes. It eliminates software costs, reduces training and recruitment overhead and saves routine, time-consuming data validation.

For key safety events, our analysts from our global safety centers provide an independent and factual view of the events within one working day. This global service provides you with an extension to your safety team and where urgent support is needed, they are available 24/7.

With L3Harris flight data services and dedicated account analysts, you will have more time to focus on what matters most – making informed safety decisions.



BENEFITS:



24/7 SUPPORT
ANYWHERE IN THE
WORLD VIA OUR
GLOBAL OFFICES



COMPLIANCE WITH
INTERNATIONAL
CIVIL
AVIATION
REGULATORS



PERFORM TREND
ANALYSIS TO
HIGHLIGHT
SAFETY ISSUES



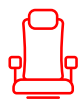
FOCUS TRAINING
IN SPECIFIC
AREAS (EVIDENCE
BASED TRAINING)



IDENTIFY
SIGNIFICANT
UNSAFE EVENTS AND
TAKE APPROPRIATE
ACTION



BENCHMARK
PERFORMANCE WITHIN
SIMILAR AIRCRAFT
TYPES, IN THE
AVIATION INDUSTRY



MINIMISE DELAYS
AND AIRCRAFT
ON GROUND



ENHANCE
MAINTENANCE
TRENDING AND
DIAGNOSIS



SECURE
ACCESS
FROM
ANYWHERE



IATA FLIGHT DATA EXCHANGE (FDX)

THE AIRLINE INDUSTRY'S DATA SHARING PROGRAM

If you want to benefit further from your flight data, then join the only global data sharing program which allows operators to benefit from:

- > Identifying safety risks using aggregated de-identified FDX results
- > Compare global benchmarking statistics to your own airline
- > Identification of risks at new destinations for your airline
- > Receive IATA reports on specific topics

SUSAN GAUTREY, EUROPEAN SAFETY MANAGER, LUXAVIATION

“Outsourcing flight data monitoring to L3Harris has been really positive step for our safety management system. They take care of all the validation, analysis and investigation of flight data, allowing us to concentrate on managing safety. L3Harris’ detailed, timely analysis of events and presentation of data statistics has identified areas of the operation for discussion, generated engagement in safety and facilitated key safety interventions.”



FDX FOR THE OPERATOR

FDX allows the identification of flight safety issues by querying a shared, global database holding a wide range of safety measurements. When using the IATA Flight Data Connect program, you can directly benchmark safety parameters against the FDX database. Any operator may apply to IATA to join the FDX program, which is free of charge.

FDX FOR IATA

IATA uses collated FDX data when working with states and authorities to mitigate safety risks and improve flight efficiency. For example, airspace redesigns have been carried out to mitigate the risk of mid-air collisions.

FDX FOR THE INDUSTRY

Flight Data Services and IATA encourage all operators to join the FDX program so that, acting together as an industry, we can use the data to develop informed safety improvements and keep pushing the accident rate down.

For more information on FDX please visit: www.iata.org/services/statistics/gadm/Pages/fdx.aspx

CHRIS JESSE, CHIEF TECHNICAL OFFICER, L3HARRIS (UK)

“I am very excited about this new safety collaboration as it paves the way for significant advances in aviation safety on many levels. I share, with my colleagues and IATA, a passion for aviation safety. I firmly believe that this safety collaboration will achieve, not just a step, but a real leap forward for safety.”

Welcome to Flight Data Exchange

Click here for quick stats

FDX

- 6,587,536 flights globally
- 6,587,536 operator flights
- 3,695 aircraft in FDX
- 69 FDX Participants
- 2019-12-12 Last Upload

GADM News

- The Incident Data eXchange (IDX) is IATA's new safety and security incident data management program, and is available for all of you to join! Please contact idx@iata.org for more information.
- The new ADX interactive dashboard is coming soon, and it will be available for IDX and FDX data contributors.

ABOUT

FAQ

DEFINITIONS

SAFETY INDICATORS

Month Range

Jan, 2019 → Sep, 2019

State

(All)

Operator

(All)

IATA Region

(All)

Apply

CFIT/TAWS

LOSS OF CONTROL

MAC/TCAS-RA

UNSTABLE APPROACH

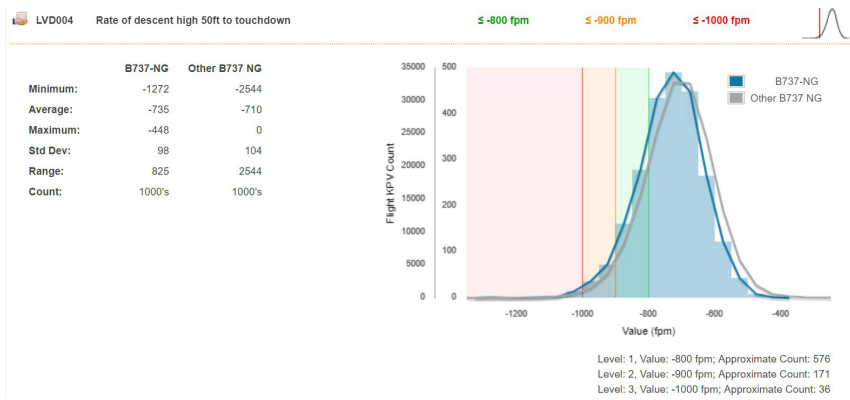
GO-AROUND

DE-IDENTIFIED DATA ALLOWS FOR GLOBAL BENCHMARKING COMPARISONS

FUSE MULTIPLE DATA SOURCES TO EXPAND SOLUTIONS PORTFOLIO

As IATA’s strategic partner, the FDX platform is the catalyst for setting global standards in aviation safety through benchmarking. L3Harris is paving the way for efficiency and evidence-based training, capturing over 7,600 flights daily, and growing. This database of de-indentified data allows for global, platform-based and industry-based benchmarking comparisons across fleets and operational analysis. It also allows the ability to fuse multiple data sources, fostering expansive solutions portfolio.

SHARING DATA ENSURES WE WORK TOGETHER COLLABORATIVELY AS AN INDUSTRY TO IMPROVE AVIATION SAFETY.



Example of comparative benchmarking statistics for ‘Airspeed high with flap 20’.



DATA SECURITY

PRIVACY AND SECURITY IS TAKEN SERIOUSLY

We understand the security and protection of your data is essential. Transfer of your data uses industry standard encryption to prevent unauthorised intrusion. Our data centres are protected to ISO 27001 standards and all web-applications are encrypted to maintain data security.

EXPRESS READOUT

WEB-BASED, SEMI-AUTOMATIC VERIFICATION TOOL

Express Readout is a secure, cloud-based service enabling users to upload, analyze and access reports, as well as other data downloaded from the Flight Data Recorders (FDR) and Cockpit Voice Recorders (CVR), including those with datalink capabilities. Users simply download the data, and then securely upload the files onto the platform, eliminating the need to send the recorder off-site for verification. The system automatically verifies functionality and generates the necessary documentation for the global civil aviation authorities.

To learn more about Flight Data Connect and our services and to request a demo, email: marketing.fds@L3Harris.com

BRITTANY ROEHM, SAFETY PROGRAM COORDINATOR/ALT. AOSC, EMPIRE AIRLINES (USA)

“Your staff makes utilizing this program so simple. I’m very impressed with the turnaround times on expedited data. Your employees notify us when they see a repeated event or they make suggestions on adjusting parameters, which is very helpful.”

A photograph of two men in an industrial or aerospace environment. The man on the right is wearing a white hard hat and a yellow high-visibility safety vest over a light blue shirt. He is holding a tablet and pointing at the screen with his right index finger. The man on the left is wearing a dark jacket and is looking down at the tablet. The background is slightly blurred, showing industrial structures and what appears to be the tail of a white aircraft.

FAST. FORWARD.

Flight Data Connect

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This document consists of basic marketing information that is not defined as technical data under EAR Part 772. L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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www.L3Harris.com/FDS