

Austin Digital's Event Measurement System

Austin Digital offers the world's most advanced technology for Flight Operational Quality Assurance and Flight Data Monitoring. ADI's philosophy is to provide products that enable users to extract the maximum value from the flight data stream. This philosophy has been implemented with an ongoing commitment to supporting our family of EMS users.

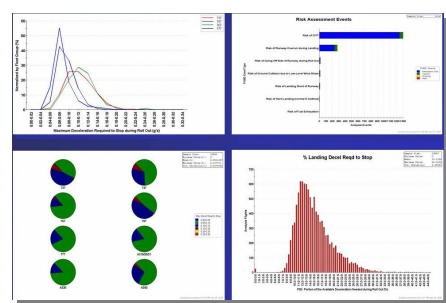
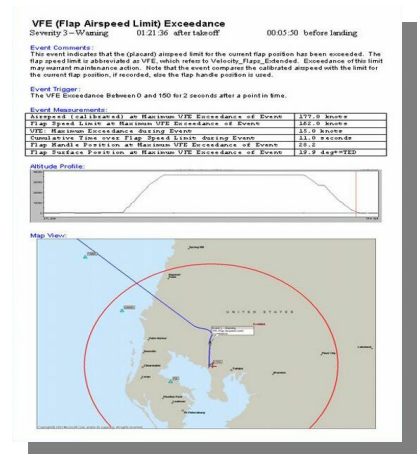
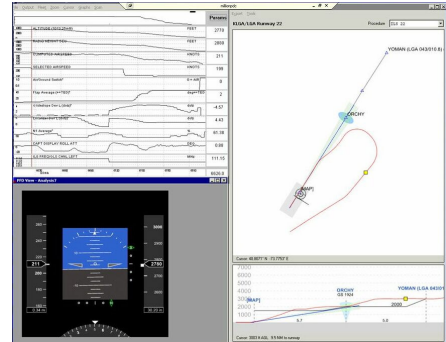
Austin Digital's **Event Measurement System (EMS)** is the premier software suite for FOQA analysis. Since the unveiling of EMS in 1998, our community of users have processed over three million flights, totalling nearly eight Terabytes of flight data.

While single-flight analyses are useful for analyzing known events, EMS facilitates the discovery of long-term trends by quickly sifting through enormous amounts of flight data. With its unique ability to numerically characterize flight operations, visualize statistical distributions, and uncover event exceedances, EMS allows preventive measures to be taken before problems can arise.

EMS is also highly configurable. This makes EMS easy to expand as fleet size increases and needs change, and also uniquely suited to performing custom, user-designed calculations. EMS even allows users to set up entirely new fleets – from parameter maps to exceedance definitions.

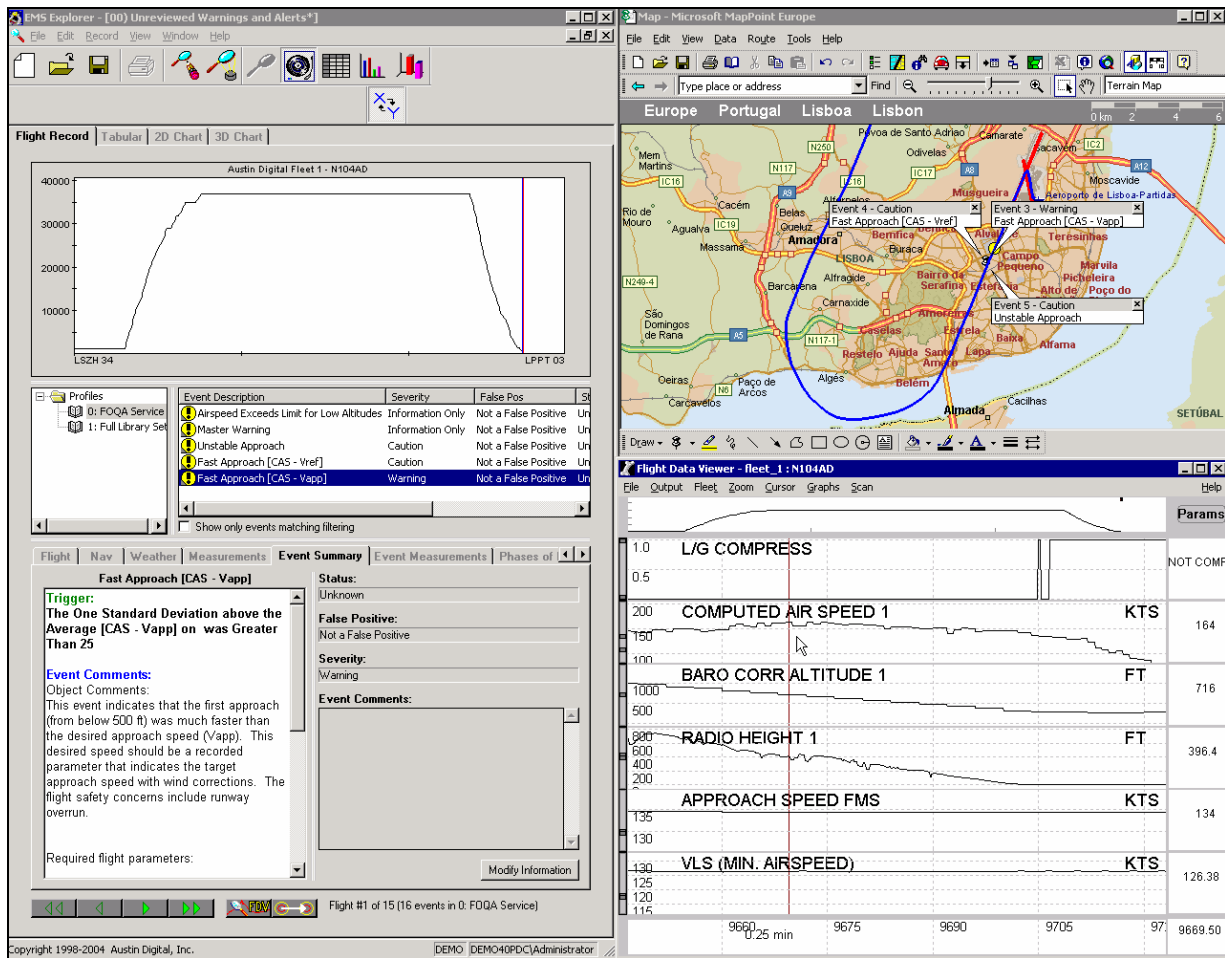
The first component of EMS is the **Flight Data Warehouse (FDW)**. FDW handles the collection of the flight data from various formats and the de-identification and storage of the flight data. Processing of data is completely automated. Aircraft, fleets, airports, and logical frame layouts can be easily updated, and entirely new fleets can be added.

The second portion of the EMS suite is **Automated Parameter Measurement (APM)**. APM allows the user to quantify almost any aspect of a flight, using three extensive libraries of 143 events and 3,073 measurements, or optionally querying for user-defined exceedances and events.



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EMS's extensive query and filter features allow users to quickly navigate databases to locate desired subsets. The corresponding flight data files can easily be viewed with the Flight Data Viewer (the bottom-right pane above). These features, together with the extensive libraries, ability to visualize flights and see weather conditions at takeoff and landing, ability to generate automatic reports, and the tightest, most-configurable security, make EMS the choice for a serious FOQA/FDM program.

Extensive Libraries of Events and Measurements

EMS comes with three state-of-the-art libraries of events and measurements- Flight Operations and Measurements, Fuel Economy, and Flight Safety Events. Together, these libraries provide 143 events and 3,073 measurement-based distributions and trends. They have accumulated eight years of expert usage and refinement by our community of EMS users on over ten Terabytes of flight data. These libraries apply to every aircraft in the fleet, regardless of differences in airframes, LFL's, engine types, or onboard recording hardware. And of course, with EMS, you can create unique, new profiles, and define new events and measurements.

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Flight visualizations and weather

Another feature of EMS is the ability to visualize trajectories and navigational entities such as waypoints and runways. On a single screen, the analyst can view the flight, the desired parameters at any given time-point during the flight, and weather conditions at takeoff and at landing, as well as the flight's corrected trajectory with event tags noted. With a single click on any part of the trajectory or on any event tag, the user's parameter selection will change to display the parameters that are most relevant to the event in question..

Robust Security

EMS has robust and full-featured security. With EMS, you can specify exactly what access each user or group has. All parts of the system – almost any task that can be performed- can be secured separately from any other task in the system. You can have an unlimited number of user-defined groups, with granular control over the rights assigned to each group. It's easy to control rights on profiles and folders, and even specify whether they should be visible or not to a certain user or group. A new client-server architecture also adds additional layers of external security to the EMS system.

Automatic Report generation

EMS includes automatic generation of HTML and PDF style reports to display important results quickly and conveniently. Reports can be configured to show the results you need- choose the measurements, parameter values, and navigation information to display. These reports are then generated automatically during normal processing of your flight data. Reports are automatically sent to the printers or email accounts of your choice. Or, just export the data to common formats like Word or Excel for inclusion in your presentations.

The Event Measurement System in summary:

- Both event detection and measurement-based trends and distributions.
- Extensive library of 143 events and 3,073 measurements.
- Parameter analysis of single flights through Flight Data Viewer.
- Automatic trajectory correction
- Distributed processing provides faster results on difficult calculations
- Compatible with all major animation programs.
- Visualization of navigational data (runways, terminal procedures, waypoints, etc.)
- Daily updates of METAR weather data at takeoff and landing sites.
- Robust, configurable security.

Austin Digital has solid experience providing excellent support to its family of clients, including: Lufthansa, Southwest, Swiss, Continental, United, AirTran, FedEx, COPA, Northwest, Augsburg, Belair, Contact, Edelweiss, Ethiad, EuroWings, GermanWings, Novair, JetClub, Servair, Tyrolean, and the Flight Safety Foundation. For more information on the Event Measurement System or any other Austin Digital products, please contact us by email or phone at the coordinates below.

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