ARSA Symposium Panel Discussion

The Future of Maintenance Reporting

Panel:  
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Date: March 20, 2015
By the numbers, the U.S. has:

- 625,000 pilots
- 333,000 registered civil aircraft
- 400,000 Aviation Maintenance Technicians
- ~2,200 FAA Airworthiness Inspectors (split between air carrier and GA)

Who is primarily responsible for ensuring aviation safety?

Why is it important for the entire aviation community to have timely access to data?
Summary of Needs

- **Fast, simple** way to report and share a problem with instant feedback; show the effort is not wasted
- Quicker, easier report access with improved search capability with ability to spot cross-product trends
- Ability to include photos and videos
- Availability on mobile devices with push notifications
Summary of Needs (cont.)

- Batch upload capabilities to interface with internal systems
- De-identified reports for shared information
- Use of standard terms (such as Make/Model/Series)
- Ability to immediately link submitted report to other similar reports
- Supports existing or developing SMS programs
We need a system that will cause people to immediately act to avoid possible hazards – an early warning system.
To Reiterate…

We have collectively developed the AVDEX concept based on these needs.
Potential uses of improved data

• Enhanced data visualization services
  – Example: weather radar services

• Ability to keep up with what others are saying about problems, risks, or hazards
  – Spot emerging risks

• Real-time assessment by:
  – Repair stations to check field incidents on products they repair
  – Design approval holders to monitor the health of their products
Enhanced Data Visualization Example

- Enhanced data visualization services
  - Heat mapping and geo coding for issues based on geographic location or location on the aircraft

Top 5 reported issues, past 30 days