

# Airline Operational Experience ADS-B In



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# TOPICS

Pilot Training Tools

Operational Challenges

Pilot Feedback

Pilot Feedback Tools

Operational Experience Results

Post AIRS Evaluation

# Pilot Training Tools

- Fleet Bulletin
- Brief operational videos
  - IM
  - CAS-A
- Quick Reference Guide
- Distance Learning Modules (Home Study)
- ETHOS Training Module
  - Permits interactive “button pushing” for the applications
- Mobile CCI Messages – iOS and Android devices
- Pilots encouraged to conduct CAVS operations for familiarity

19-010: Introduction of Cockpit Display of Traffic Information (CDTI) 15 NOV 19

## Background

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### Description

#### General

ADS-B Guidance Display (AGD)

MCDU Interface

Airborne Situational Awareness (AIRB)

CDTI-Assisted Visual Separation (CAVS)

Initial -Interval Management Merging and Spacing

In-Trail Procedure (ITP)

# Operational Challenges

Large time gap between initial training and aircraft equipage

- Created a “startle” factor when issued a first time IM or CAS clearance

The initial “stare” factor contributed to perceived heads down and increased workload concerns

- The ADS-B Guidance Display (AGD) was new and not in the normal scan

The original interface with the MCDU resulted in error messages and lost IM opportunities



# Pilot Feedback

- Collecting direct pilot feedback was vital to the success of AIRS
  - Identified interface issues
    - Resulted in improvements to software and interface
  - Identified gaps in training and understanding of the operations
    - Resulted in improvements to phraseology
    - Disseminated targeted bulletins that provided clarifications
    - Improved training tools – ETHOS
  - Improved situational awareness
    - Bigger picture of traffic flows and what's about to happen
    - Avoiding Go Arounds – Better decision making on final approach
    - Turbulence avoidance
    - Overall enhancement to safety

# Pilot Feedback Tools

- Direct interviews with pilots immediately following an IM/CAS operation
  - Conducted by APA Safety Representatives
- Dedicated company email address for feedback
- iPad questionnaire
- Observation flights by:
  - APA Safety
  - Line Operations Safety Audit (LOSA)

## Operational Experience Results

As more pilots were exposed to IM/CAS clearances, compliance and understanding improved quickly

Many pilots reported the applications were straight forward and easily managed

There are numerous examples where pilots were ready and well prepared in advance for IM and CAS clearances

# Post AIRS Evaluation

Many pilots continue to use the AGD for en route, arrival planning, and overall situational awareness on every flight

Several pilots have reported a lack of protection or safety if they are flying an unequipped aircraft





# Discussion