



“Strengthening Relationships Through Better Communication”

Pilots, Aircraft Dispatchers,
and Air Traffic Controllers“

**Sean Cassidy, First Vice President
ALPA, International**

Air Line Pilots Association Intl.

- Founded in 1931
- “Schedule with Safety”
- Over 53,000 Members in US and Canada
- 39 Airlines represented
- Largest Non-Governmental safety organization in the world

Air Line Pilots Association Intl.

→ Industrial Areas

- Collective Bargaining/Contract Administration

→ Pilot Advocacy

- Legislative/Regulatory Engagement

→ Safety & Technical Functions

- Air Safety Organization: Safety, Security, Pilot Assistance, Cargo, Jumpseat, Environmental
- Technical/Engineering Assistance
- Aviation Rulemaking Committees
- Govt./Industry/Labor Working Groups (RTCA)

Safety and Planning Goals

- Just Culture / One Level of Safety
- SMS
- Voluntary Reporting Programs
- Coordinated approach with all stakeholders

Shared Challenges

→ Communication

→ Surveillance

→ Navigation

Communications

➔ Dispatcher-Pilot-ATC

- VOICE, ARINC, ACARS, CPDLC and FANS(x)
- Safety in communicating
- Required FAR 121.107
 - “...ensure proper operational control of each flight”.
 - A SHARED (Dispatch/Pilot) Responsibility
- Data-link communications require new internationally harmonized “message sets” (RTCA SC-214 and ERUOCAE WG-78) AOC/ Dispatcher input needed

Communications

→ Dispatcher-Pilot-ATC

- Integration of Controller-Pilot Data Link Communication (CPDLC) and voice
- Introduces new risks and mitigations versus voice (e.g. loss of SA)
- CPDLC aircraft equipage mix - legacy versus new aircraft

Surveillance

→ Dispatchers, Pilots

- Using new “ATC services” (Web based) ADS-B and Radar Surveillance
 - Real time: Improved AOC “flight following” - “tracking”
- Now: Limited
- NextGen: Better(post 2020)
 - Domestic and International
- Training Requirements

Surveillance

→ Aircraft

- ADS-B OUT - major structural shift
- Aircraft equipage - requires new equipment in addition to existing Mode A/C transponder
- ADS-B early benefits concentrated within FAA

Nav/Airspace Redesign

- ➔ Redesign airspace associated with major Metroplexes to allow maximum use of RNAV arrival and departure routes
 - Optimize capacity at all airports in a region
 - More predictable flow rates (AOC)
 - Lower impact from weather (AOC)
 - Dynamic AOC/Dispatch re-routes

Metroplex Airspace Redesign

- Previous airspace studies that have included extensive stakeholder (dispatcher/AOC) involvement from beginning have produced tangible benefits, e.g., the New York Airspace Redesign which is entering Phase 2, is producing significant reductions in fuel burn, delays, and emissions

NextGen Challenges

- ➔ Elaborate, complex, expensive plan over long time span
 - Uncertain funding stream - depends on Congressional understanding & priorities
 - New financial realities
 - FAA Funding extensions ~~21~~**22** and counting!
 - Understanding NextGen: The Business Case

NextGen Challenges

- ➔ Elaborate and complex “Ecosystem”
 - Involves development of new technologies
 - ADS-B out and In
 - Greater position accuracies for surveillance
 - Opportunities to increase route(s)
 - GNSS, RNAV/RNP (Alaska Experience)
 - Increased Navigational/Routing flexibility
 - Expanding Communications

NextGen Challenges

- ➔ **Planning over long time span**
 - **Cannot throw switch on change-over to NextGen**
 - **AOC (Aircraft Dispatcher's) will need a transitional plan**
 - **Multiple “roadmaps” - not 100% coordinated within FAA or with industry= LACK OF MOMENTUM, TIMELINE CREEP**
 - **Do not let the perfect be the enemy of the good!**

Shared Benefits

Communication: Working together

+

Surveillance: Improved and Expanding

+

Navigation: Transition to
GNSS Operations

=

Better Safety and Efficiency



"Building Relationships with Communication"

Captain Sean Cassidy