



# **“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