Aviation and Aerospace Modernization Challenges

JITI Aviation Seminar 2017

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A4A Member Airlines

Associate Member Airline

About A4A

- U.S. airlines directly employ nearly 700,000 people. As we grow, so does demand in related industries such as research and development, manufacturing and tourism. In total, airlines help support more than 10 million jobs across America and $1.5 trillion in economic activity—or 5 cents of every dollar of U.S. GDP.

- Commercial air travel is the safest form of intercity transportation in the United States. Every day U.S. airlines transport more than 2 million passengers and 50,000 tons of cargo. Safety is our number one priority. A4A and our member airlines work together with the Department of Transportation, Federal Aviation Administration, National Transportation Safety Board, Department of Homeland Security, Transportation Security Administration, Customs and Border Protection, aircraft manufacturers, labor and others to provide a safe and efficient travel experience. As a result, the U.S. airline industry is experiencing the safest period in aviation history.

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Challenges

Interoperability

Standardization and security of Information Exchange Models:

AIXM (Aeronautical Information Exchange Model),
FIXM (Flight Information Exchange Model)
WXXM (Weather Information Exchange Model)
Digital ATM
SWIM

Data Comm: Equipage and standardized message sets

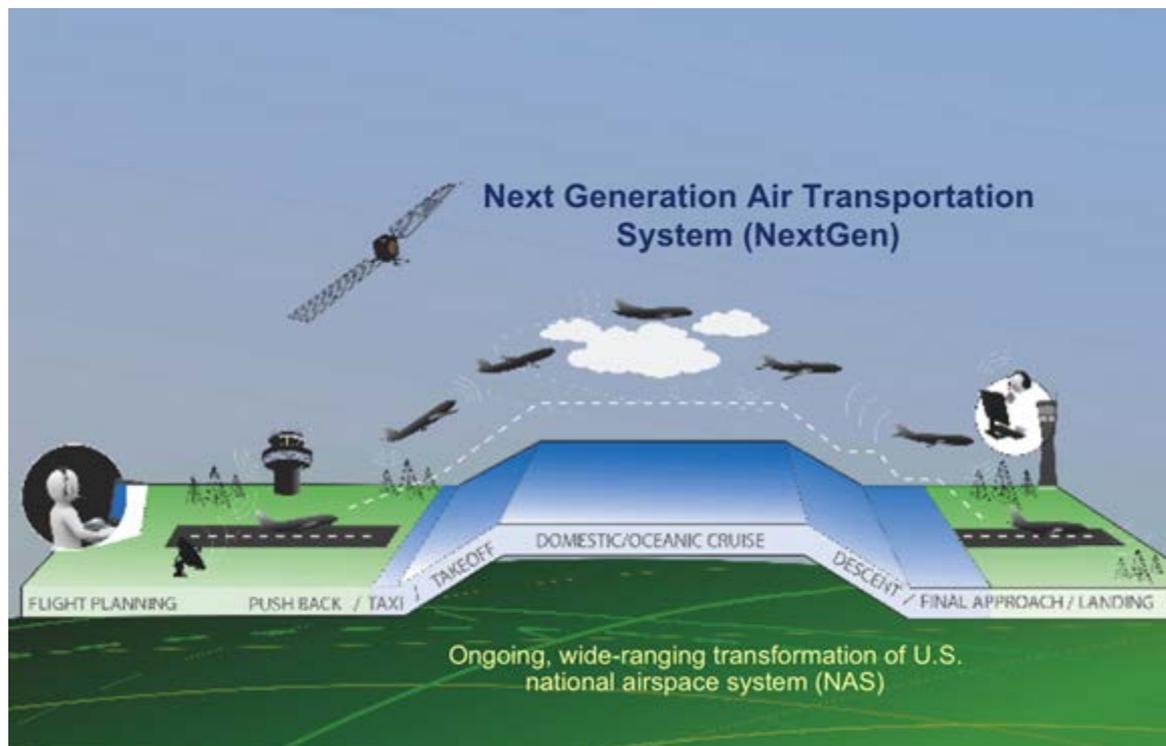Surveillance: Position integrity requirements

Phraseology: e.g., Climb/Descend via

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Integration

TFMS
TBFM
PBN

TBFM
TFDM
TSAS

Next Generation Air Transportation System (NextGen)

DOMESTIC/OCEANIC CRUISE

TAKEOFF

DESCENT

FLIGHT PLANNING   PUSH BACK / TAXI   / FINAL APPROACH / LANDING

Ongoing, wide-ranging transformation of U.S. national airspace system (NAS)
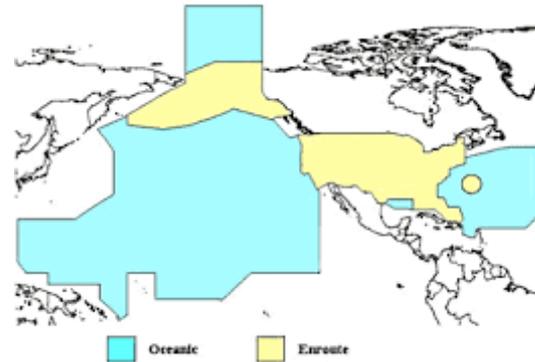
Oceanic ATM improvements

Required total system performance/
Minimum equipage requirements

Interoperable ATM service among providers

Environment

Stewardship

Community engagement

Communicate airline/aviation role in the community

New Entrants

Drones

Balloons

Commercial Space

Integrated Master Schedule

An integrated master schedule that indicates:

Timelines

Interdependencies – Procedural; rulemaking; environmental

Decision points – investment decisions

Safety

Consistent and transparent implementation of SMS

Security

The world we live in requires constant vigilance and appropriate response to security concerns

Back-up slides

Customer Service: Seven concrete steps being taken by A4A member airlines

- 1 Completely eliminating or reducing overbooking;
- 2 Prohibiting use of law enforcement to remove passengers from a flight, except in cases of safety or security;
- 3 Ensuring that no passenger is involuntarily removed from a flight for another passenger;
- 4 Ensuring that crews traveling must be booked at least 60 minutes prior to departure;
- 5 Giving gate agents the discretion to offer higher amounts of money as an incentive for customers to voluntarily take a different flight;
- 6 Airlines are renewing their focus on training for all customer-facing staff to make sure they are taking care of passengers, not just getting them from point to point; and
- 7 Efforts are underway to provide passengers more transparency and understanding about what their rights areas consumers

ATC Reform

Air traffic control reform can provide a broad-based approach to changing the governance, financing and delivery of service to travelers and suppliers.