The A/C Weather Observation Contribution to NextGen

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NextGen Goals

• Reduce congestion
• Accommodate Growth
• Improve Safety
• Reduce environment impact of aviation
• Reduce Weather Delays
NextGen Components

- Communication/Data Link
- Navigation - 4D Trajectory
- Surveillance – ADS-B (Comm./Data ??)
- Integrated Weather to support 4D Trajectory
Weather Policy Integration

- Three distinct entities – FAA(DOT), DOC, DOD
- Integration components (80/20 rule)
  - Technical
  - Policy
  - Funding
- 2011 DOT Inspector General Study
  - NOAA work on 4D Cube=Commerce requirements
  - NOAA expects FAA funding for Aviation
- NextGen Network Enabled Weather (NNEW)
4-Dimensional Weather Data Cube

Limited → Open & Unrestricted

DATA RIGHTS
Aircraft Weather Data Issues

- Who sets data requirements?  Varies
- Who provides the data?  Me thinks A/C
- Who gets the data to the ground?  Varies
- Who routes the data on the ground?  Varies
- Who processes the data?  Varies
- Who owns the data?  Provider of the data???
- Who pays for the data?  $64K Question

Example
Challenges

• Defining requirements
• Define the technologies
• Defining schedules
• Managing execution
• Naming specific parties for accountability
• Responding to continual IG reports
• Managing the whole package including costs
• Stop the blame game
• Stop requirements creep, especially individuals (=Accountability)
• Develop & Validate Goals & Benefits
• Create teams & Assign resources
• Conduct reviews to ensure accountability
• Define costs and create consensus early