Cockpit Communication of Weather Information

Weather Data Delivery and Display in the Cockpit

Aircraft Certification Service
Avionic Systems Branch

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Overview

• The NAS, where are we headed?
  – Principles
  – Methods

• End State
  – Dynamic
  – Inherently Collaborative

• Regulation and Certification

• Summary
Methods are many, Principles are few
While methods may constantly change,

Good principles seldom do
PRINCIPLES

- SAFETY (S)
- EFFICIENCY (E)
- CAPACITY (C)
METHODS

• ID THE NEED
• R&D / TECHNOLOGY
• EDUCATION / TRAINING
• BEST PRACTICES
• REGULATION
Meet, or Exceed Safety Minimums

Cockpit Weather Equipment

Cockpit Weather Content

THE COMM LINKS & Wx INFO SOURCE(s)
NextGen Environment
Shared Communications is Key

Aircraft
Cockpit / Flight Deck

TOps

Information
Flow

AOC
Airline Dispatch & Flight Operations

ATM
Air Traffic Management
Universally Dynamic ‘End State’

“Employ the aircraft as a node in the CNS network: enable flight deck weather information technologies that allow pilots and aircrews to engage in shared situational awareness and shared responsibilities with controllers, dispatchers, Flight Service Station specialists, and others, pertaining to preflight, en route, and post flight aviation SEC weather decisions.”
The Future is NOW !
SUMMARY

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• Harmonized End State
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• Regulation and Certification

• Summary