Aeronautical Information Management NOTAM Industry Day

Modernization Strategy

By: Aeronautical Information Management

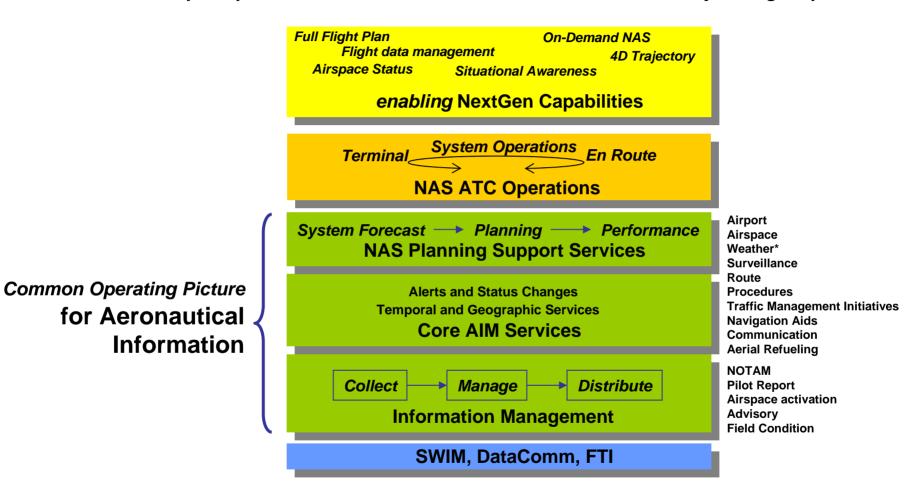
System Operations

Date: November 2008



The AIM Modernization Concept

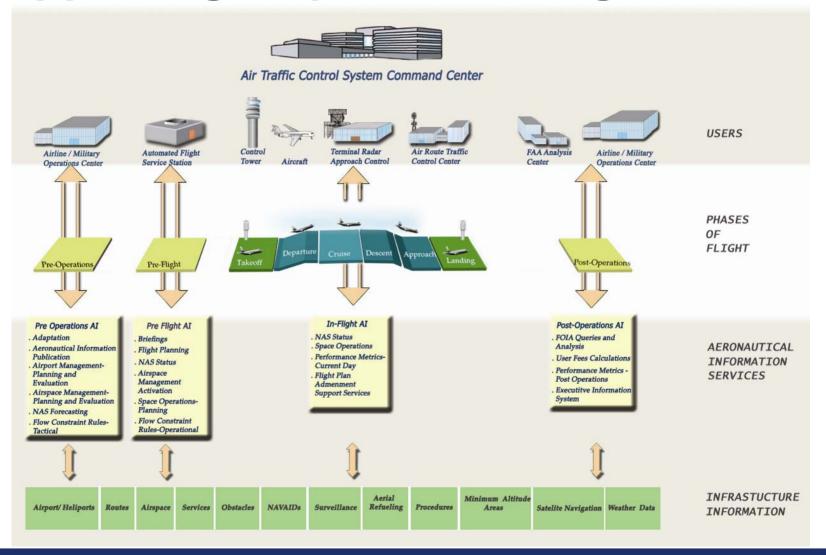
Provide a 'one stop shop' for the aeronautical information services necessary for flight operations



^{*} Requirement to be validated and/or reallocated



Supporting all phases of flight



Shortfalls addressed

Low reliability for a mission-essential system

- Documented system failures
- Security vulnerabilities like no executable disaster plans

High operating costs

- Convoluted and stove-piped system architecture "Accidental Architecture"
 - Many point-to-point system interfaces
- Hardware and software at or beyond End of Service Life (EOSL)

Services do not meet customer needs

- Demand for digital information (Digital, Graphical NOTAM)
- Plain language
- Improve quality of service
- Ensure service delivery to customers
- Foundation for advanced flight planning and trajectory analysis

Strategic Plan

Technical

- Future Systems
- SWIM compliance
 - Legacy support
- Aeronautical Information Exchange Model (AIXM)

Policy

- ICAO compliance
- Coordination with Canada
- Digital capture and delivery

Outreach

- Education

- Human factors analysis
- Stakeholder working groups

Safety

AIM

Modernization

- Minimize stakeholder impacts
- Streamline system transitions

Program strategic deliverables

Provide a 'one stop shop' for the aeronautical information services necessary for flight operations

Improve Safety

- Timely and accurate distribution of aeronautical information
- Capturing and distributing digital aeronautical information

Improve efficiency

- Digital capture and delivery
- Streamlined information management

International Leadership

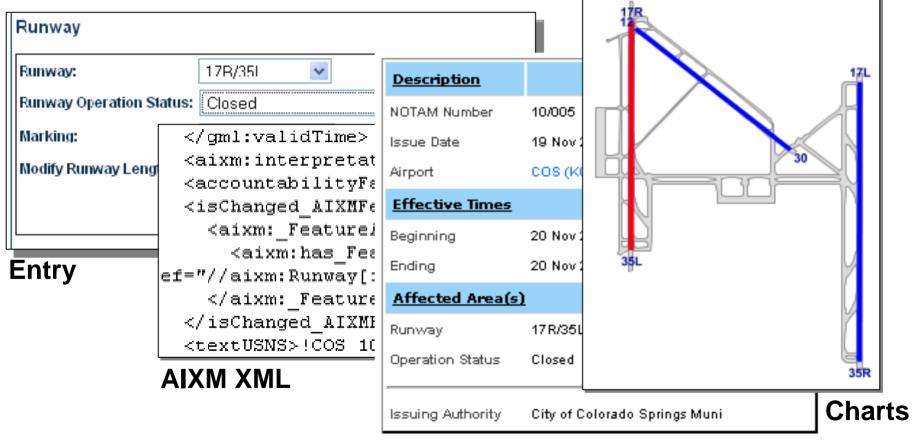
- "Digital NOTAM"
- ICAO compliant NOTAMs

Supporting NextGen

- Single Authoritative Source
- Infrastructure for 4D flight planning, shared situational awareness, ...



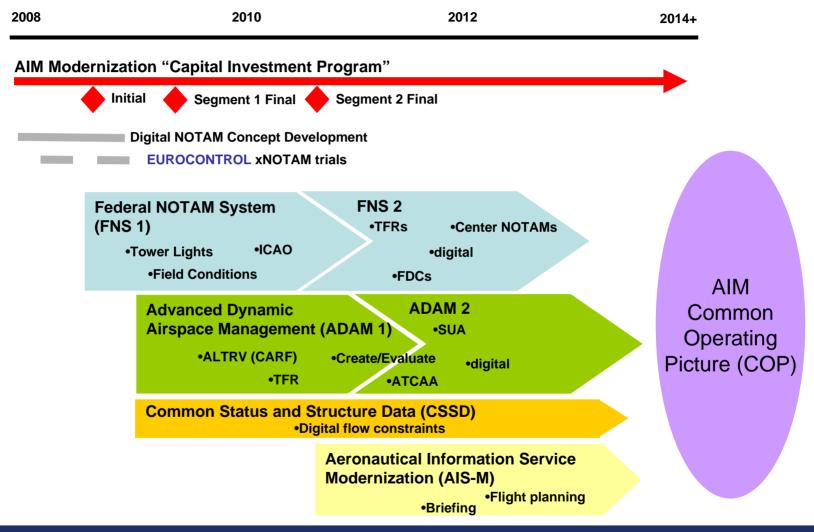
AIM Modernization Solution Digital capture and delivery



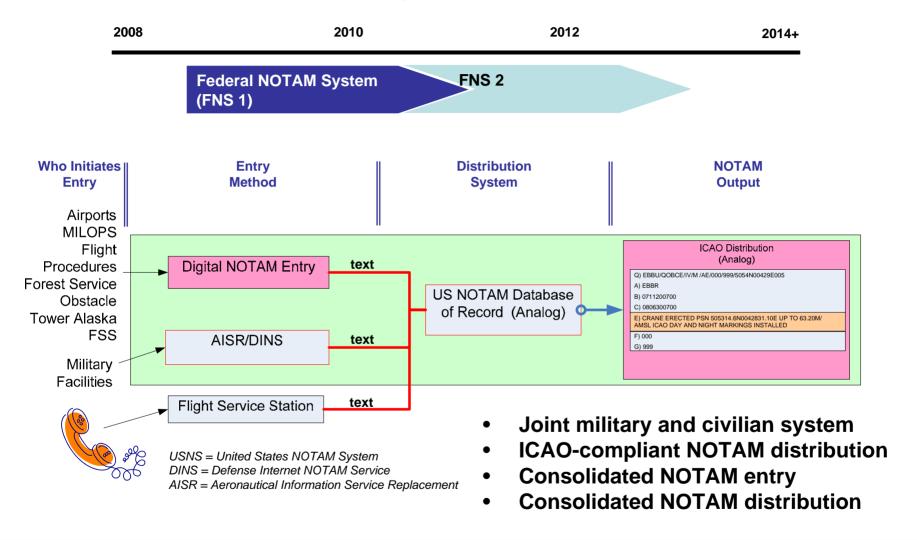
Plain Language



Capability roadmap



Federal NOTAM System (Version 1)



Federal NOTAM System

2008/2009demonstration

Federal NOTAM System FNS 2 (FNS 1)

Digital Entry

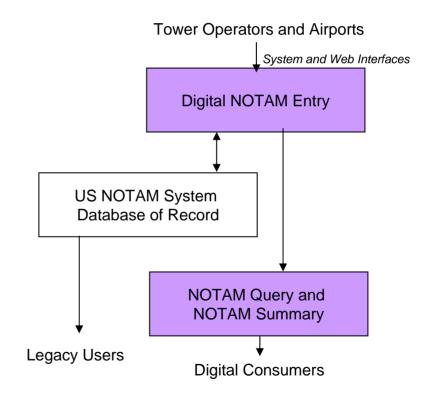
- Runway closures and snow conditions
- Tower lights out

Web site concepts

- Airport NOTAM summary
- NOTAM gueries

Concept validation

- Technology, Policy, Safety and Outreach
 - Field studies
 - Limited deployment demonstrations



Summary

- Insight into the FAA's investment program for Aeronautical Information Management modernization
 - One stop shop for aeronautical information
 - Digital capture and digital delivery
- First steps
 - FNS Demonstration in 2008/2009
 - FNS version 1 Consolidated and ICAO-compliants in 2010

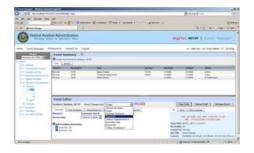
Demonstrations



Airport NOTAM Display







NOTAM Web Entry

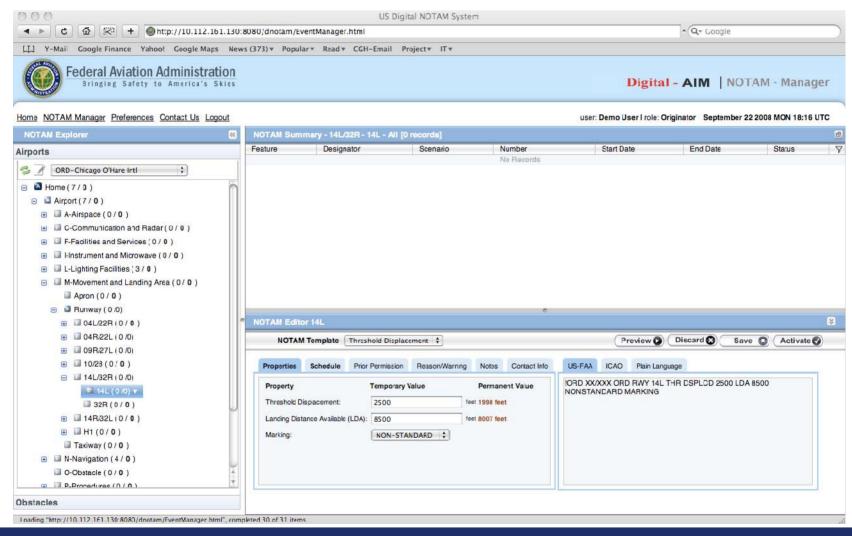




System to System

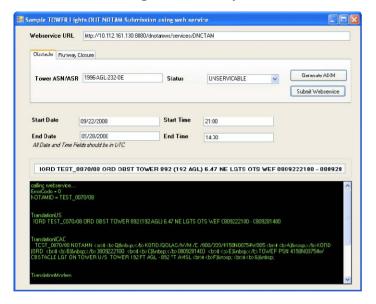


Digital NOTAM Capture Demo

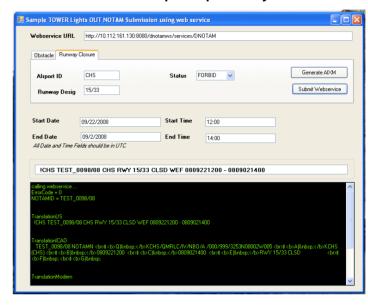


System to System NOTAM Entry

"Lights Out" Entry

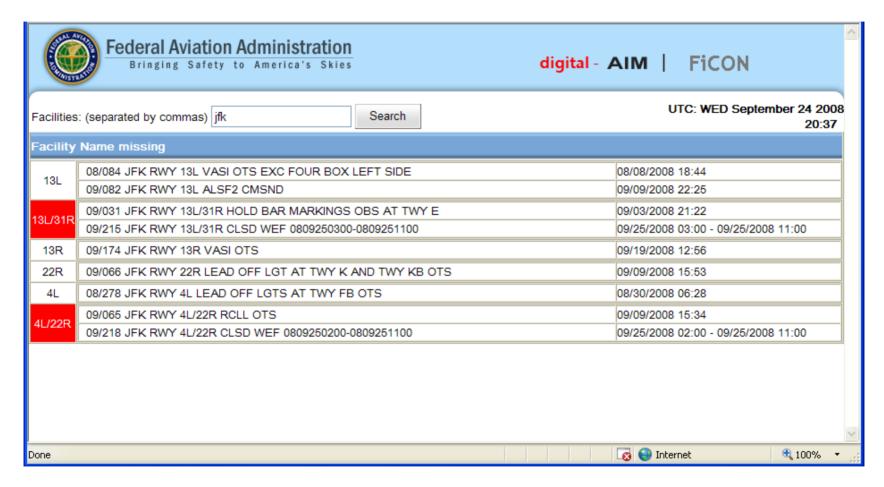


Sample Airport Entry



- "Lights out" NOTAM Capture (42% of all NOTAMs, 75% of D NOTAMs)
- NavAid Capture
- Procedures Capture
- Airports Capture
 - Electronic System Interface Capture for large airports (SWIM compliant web services)
 - Web Capture as backup and other airports

Field Summary Demo notamdemo.aim.faa.gov/ficon



Summary of Demonstration

NOTAM Entry

- Web page and system interface
- Airport operators Runway NOTAMS and SNOW NOTAMs
- Tower operators Tower lights out NOTAMs
- 2008/2009 demonstration

NOTAM Query and Summary pages

- Web pages for distribution
- Demonstrations available today at http://notams.aim.faa.gov
- Production in 2009
 - After completion of site set up and security