# Federal Aviation Administration

**Mission Support Services** 

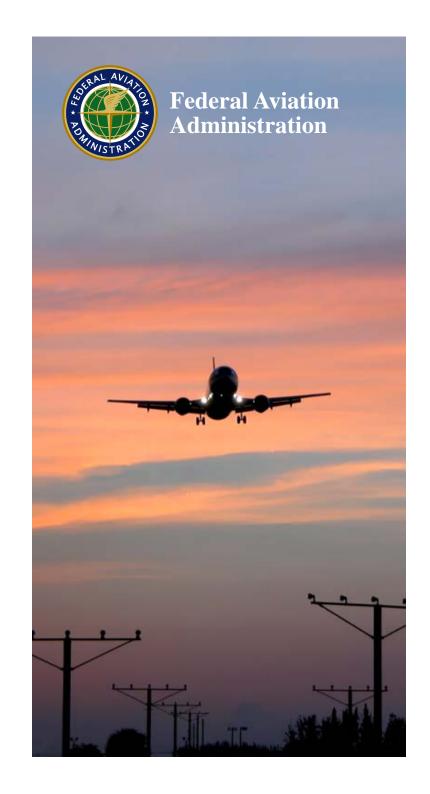
The Federal NOTAM System

Presented to: Digital NOTAM Workshop

By: Diana Young, Chief Engineer

Aeronautical Information Management Office

Date: 19 May 2014



### **Talking Points**

- Digital NOTAMs System
- Digital NOTAMs Capabilities
  - Deployments
  - Productivity
- Digital NOTAMs Tomorrow



# **Digital NOTAM System**

# Federal NOTAM System (FNS)



### **FNS - Concept of Operations**



## Originate NOTAMs at the Source

- Digitally capture temporary hazard information
- Online or System-to-System

#### Standardize & Harmonize

- Apply Business Rules
- Validate / Standardize Data
  - Translate / Transform
    - Publish / Archive

## Distribute NOTAMs to the Users

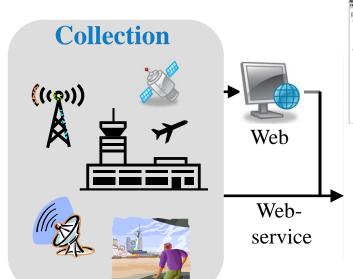
- Digitally Direct to FAA customers
- Online or System-to-System

#### **Pathway to Standardization**



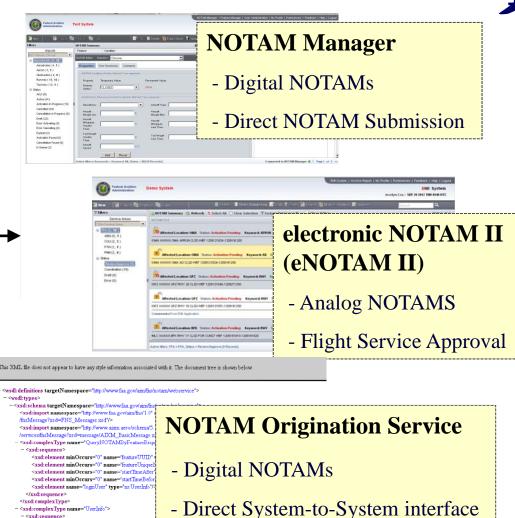
## **FNS - NOTAM Origination**

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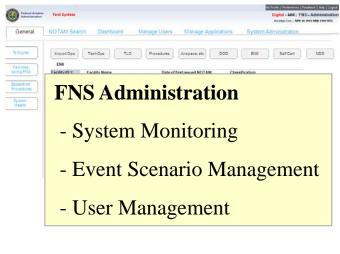




- Digitally Capture Temporary **Hazard Information** 



#### **FNS** - Management



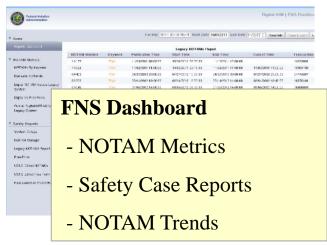


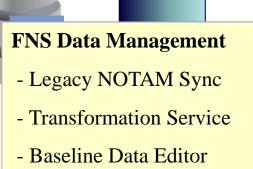
## **Integrate Permanent and Temporary Information**

Management

- Apply Business Rules
- Validate / Standardize Data
  - Translate / Transform
    - Publish / Archive



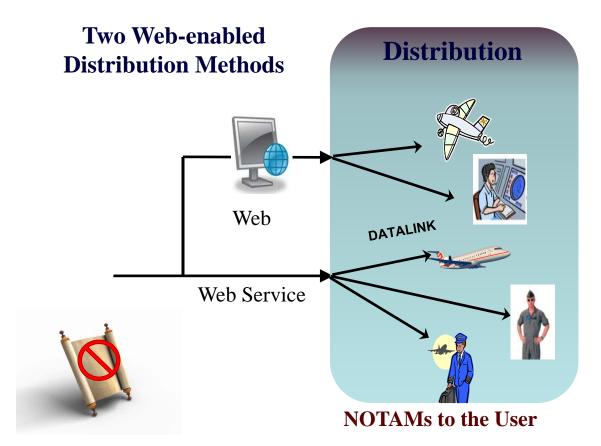




- Disaster Recovery & Archives



#### **NOTAM Distribution Methods**







#### Digital Data

• Discrete – granular

#### **Dimensional**

Geometrics

#### > Standardization

- Open Geospatial Consortium (OGC)
- Simple Object Access Protocol (SOAP)

#### > Harmonization

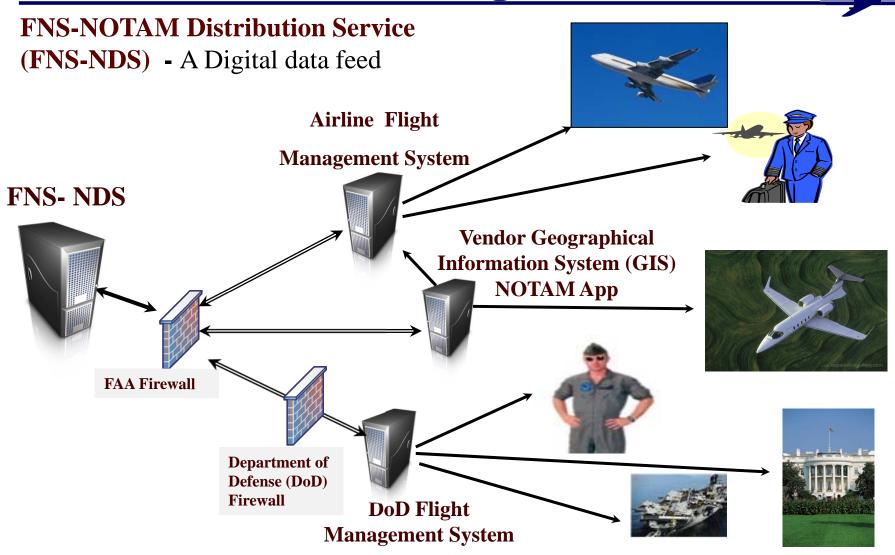
- Aeronautical Information Exchange Model (AIXM) / OGC
- Digital Event Scenarios& Schema



### **NOTAM Distribution - Web Applications**



## **NOTAM Distribution - Digital Data Service**



# Digital NOTAM Capabilities Current Status



### System Deployments as of April 11, 2014

#### **Origination Services:**

- **NOTAM Manager(NM): 271** Airports
- NOTAM Manager Tech Ops: Operations control centers and service centers
- **eNOTAM II:** Flight Services ~ 600 users & non-NM airports ~4,000
- **NOTAM Origination Services:** 5 Major Tower Light Operators

#### **Management Services:**

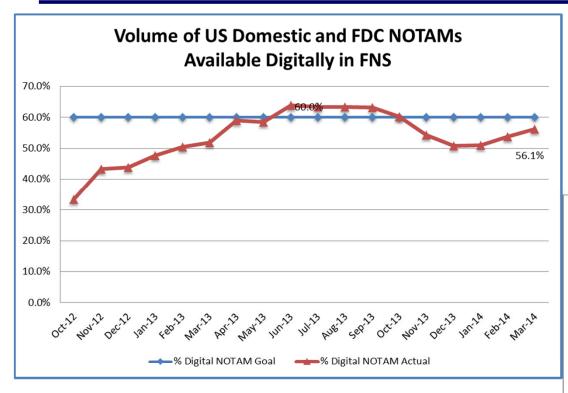
- **NM Self Cert v2:** Enabled 74 deployments; 9 in process
- Baseline Data Editor
- Transformation Engine
- FNS Administrator
- NOTAM Archives

#### **Distribution Services:**

- NOTAM Search v2
- FNS-NDS



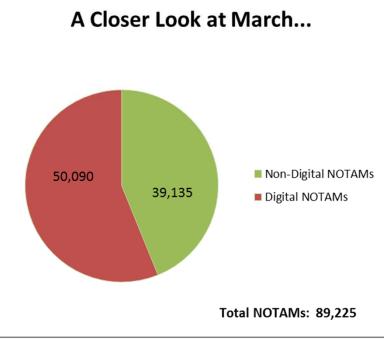
### **Digital NOTAM Volume: March 2014**



Total NOTAMs decreased by 24%.

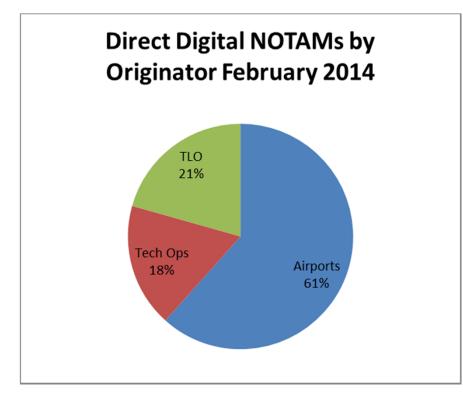
- February 2014 (116,765)
- March 2014 (89,225)

At 56% for March, the total percentage of US domestic and Flight Data Center (FDC) NOTAMs available digitally



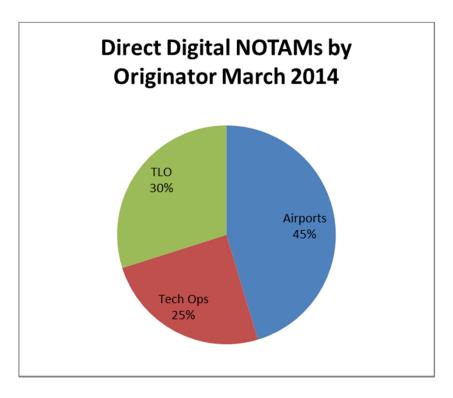


### **Direct Digital NOTAMs by Originator**



	January	February	March
Airports	29,670	30,165	16,088
Tech Ops	7,955	8,685	8,782
TLO	13,625	10,100	10,606

The *distribution* of direct digital NOTAM origination changed with the decrease in Airport originated NOTAMs.



NOTE: Direct digital NOTAMs include those NOTAMs issued through FNS NOTAM Manager or the FNS NOTAM Origination Service.



# **Digital NOTAMs Tomorrow**

#### A Look Ahead



## What's Coming Soon

- NOTAM Manager for DoD
- NOTAM Manager for Procedures
- NOTAM Manager for Alaska Flight Service
- FNS-NDS over System Wide Information Management (SWIM)
- Pilot's Bill of Rights (PBoR) Recommendations



## Thank you

#### **For More Information Go To:**

FNS NOTAM Search: <a href="https://notams.aim.faa.gov/notamSearch/">https://notams.aim.faa.gov/notamSearch/</a>

**FNS-NDS:** <a href="http://notamdemo.aim.faa.gov/ndshome/">http://notamdemo.aim.faa.gov/ndshome/</a>

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