

# Global Information Management

## NOTAM Services Over SWIM

**Presented to:** ATIEC

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FAA Program Management Organization  
Enterprise Services/AJM-336

**Date:** 9/22/16

*Aviation Information World – Forecasting the Future*



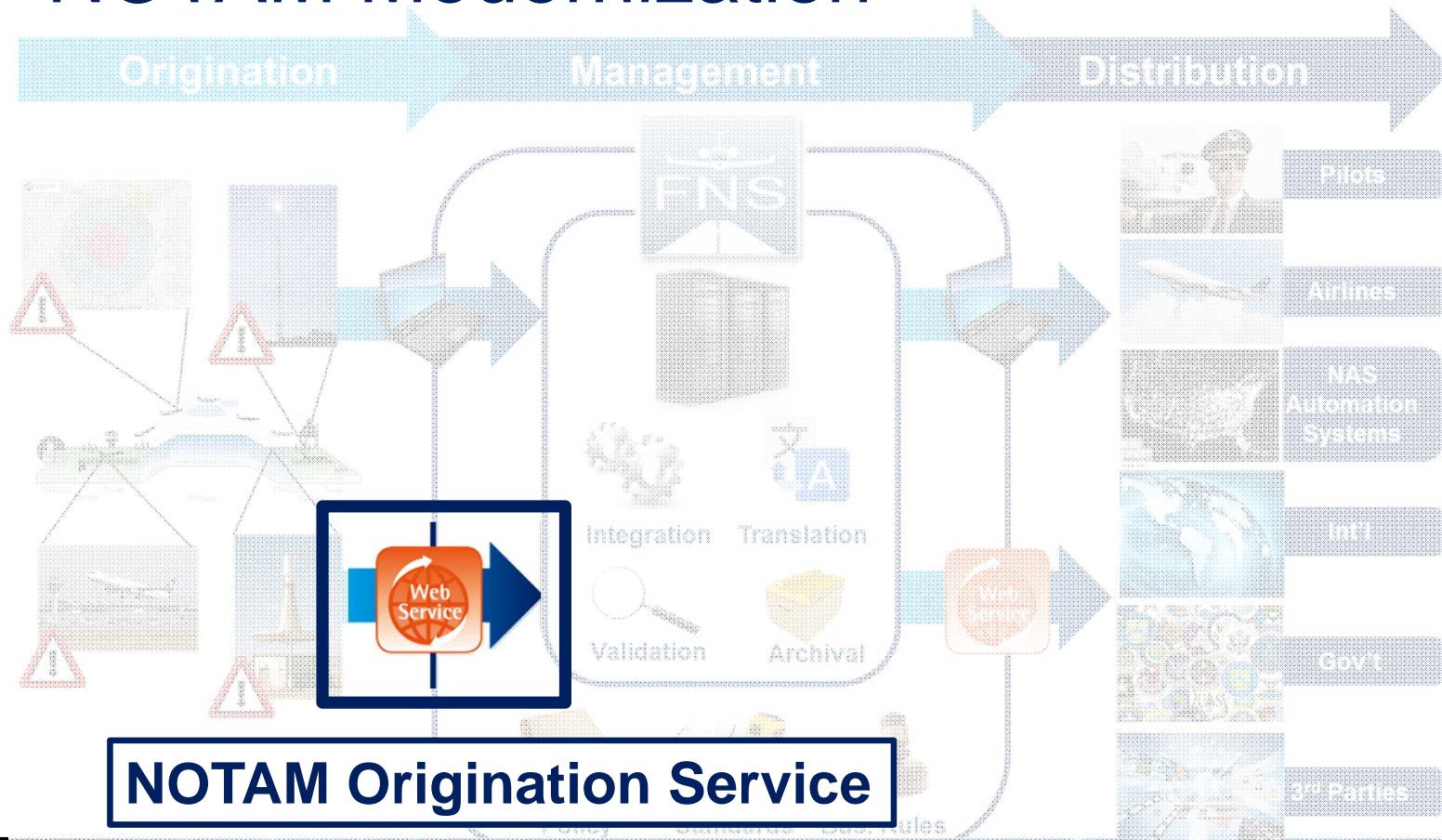
# NOTAM Modernization



# Benefits of NOTAM Services over SWIM

- System-to-system interface
- Efficient transmission of data
- Data validation & business rules
- Standardized templates & formats
- Integration of NOTAM and baseline aeronautical data

# NOTAM Modernization



**NOTAM Origination Service**

# Federal NOTAM System

## Implementing the Pilot's Bill of Rights

Digitally at the Source:

- More Timely
- More Accurate

**Originate Digital NOTAMs**



Store NOTAMs Digitally

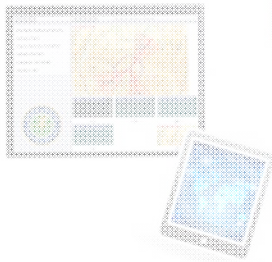
- Archived
- Available to the Public

NOTAM Distribution Service/SWIM

- Standards Based (AIXM) NOTAM Information

FNS NOTAM Search

- User-Friendly Format
- Filterable
- Timely Delivery
- Searchable
- Relevant (Route Specific)



# NOS Today



## Tower Remote Monitoring System

- Tower light NOTAMs are the **second largest** category of NOTAMs in the NAS
- ~**85%** of these NOTAMs are originated via the NOS

## NOTAM Origination Service

- NOS enables integration of third-party software to directly submit NOTAMs to FNS

# NOS SWIM Integration



Available  
Dec 2016!

## Why SWIM integration?

- Better support integration with internal and external users
- Simplify user interactions with NOS
- Reduce resources required to onboard and submit digital NOTAMs
- Leverage FAA SWIM architecture

## Potential New Users:

- Equipment NOTAMs (FAA Technical Operations systems)
- Airspace NOTAMs (SAA, CARF, TFR management systems)

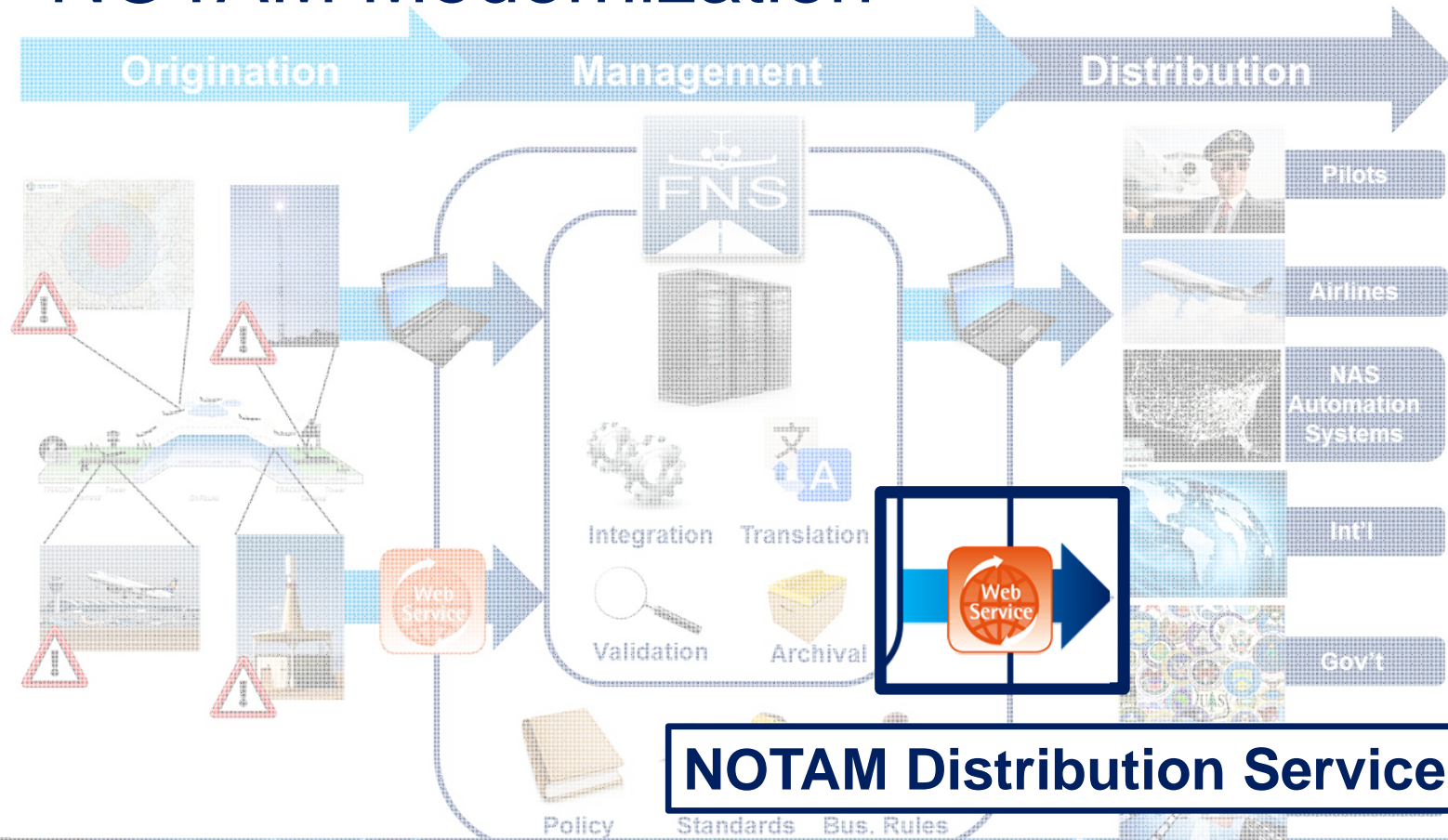
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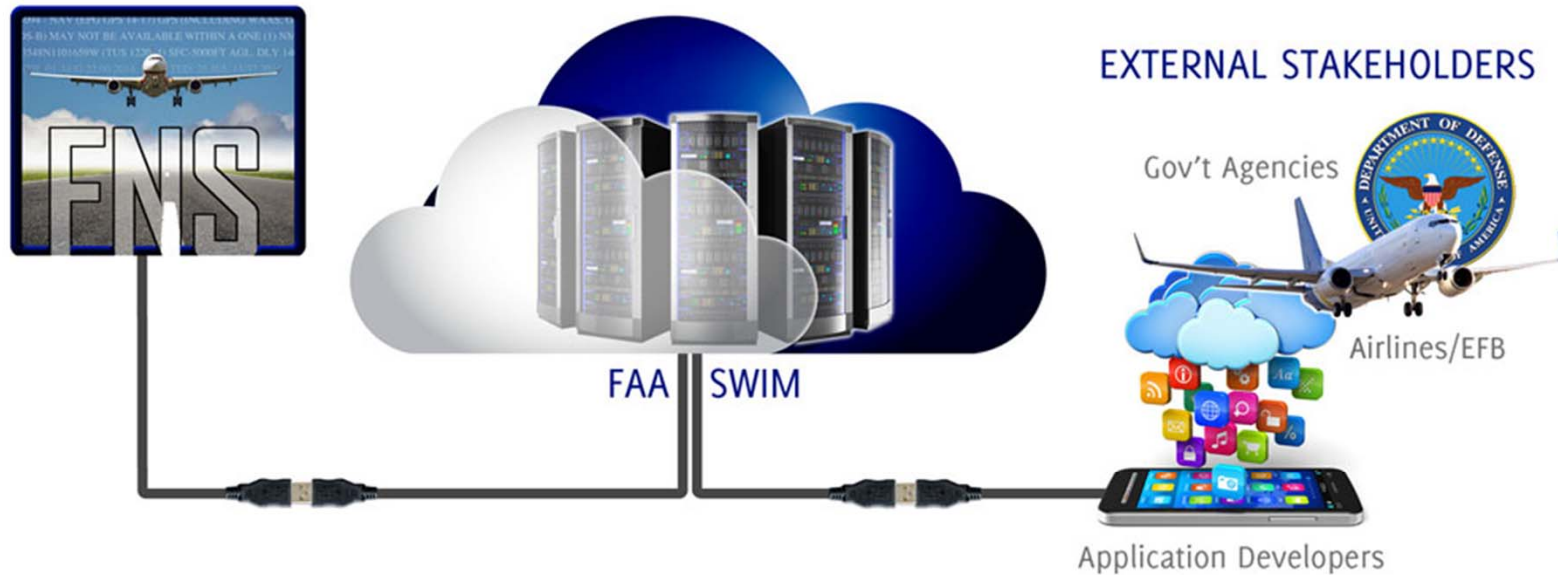
# NOTAM Modernization



**NOTAM Distribution Service**



# NOTAM Distribution Service Concept



ALL NOTAM DATA  
DIGITAL + LEGACY

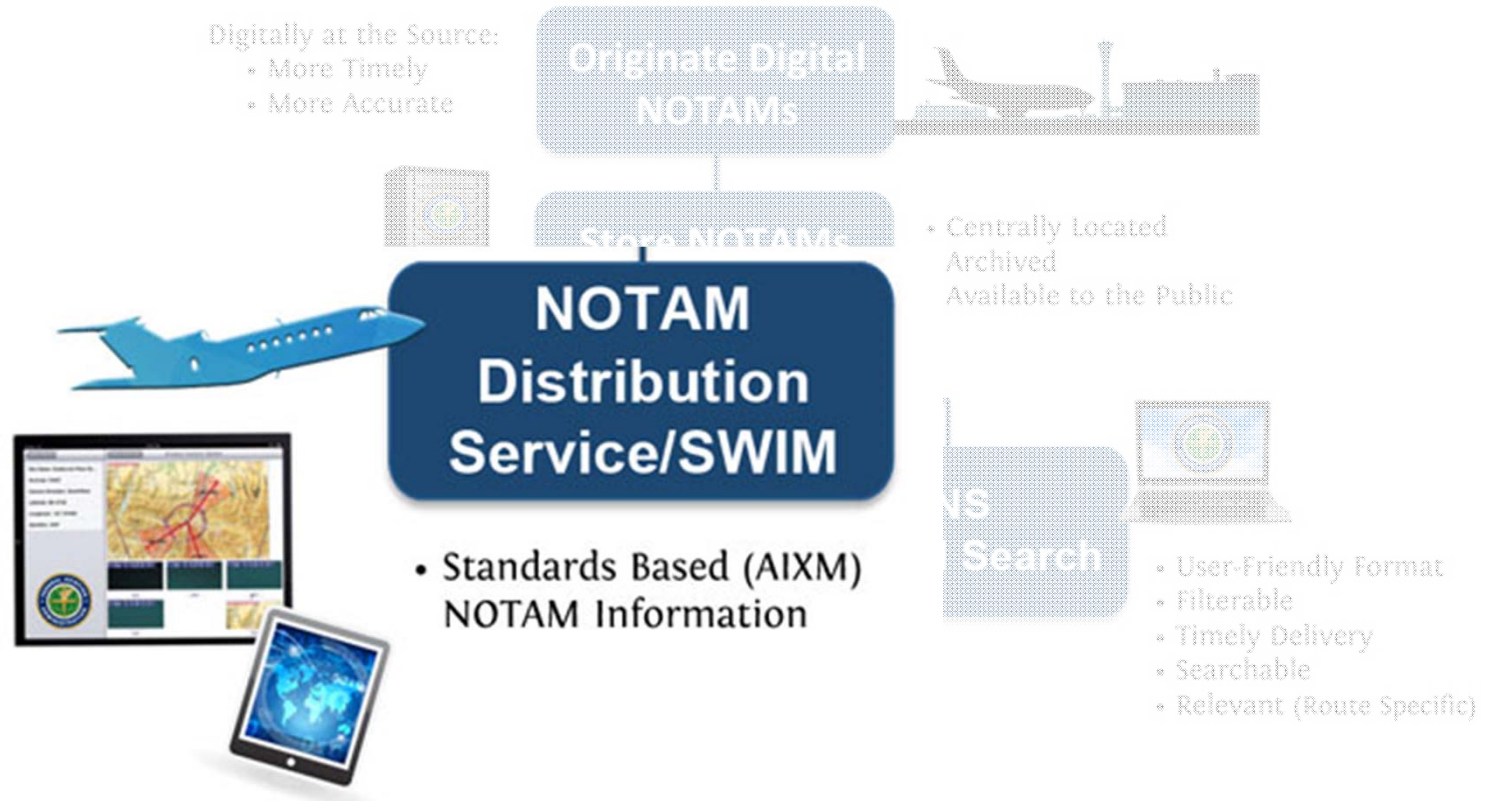
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# Federal NOTAM System

## Implementing the Pilot's Bill of Rights



# Request/Response Service



## Example Query Types:

**Bulk**

- all active NOTAMs of specific types (e.g., Domestic, Int'l)

**Delta**

- changes to NOTAMs in last X minutes

**Geographic**

- active NOTAMs with X radius of location or coordinates

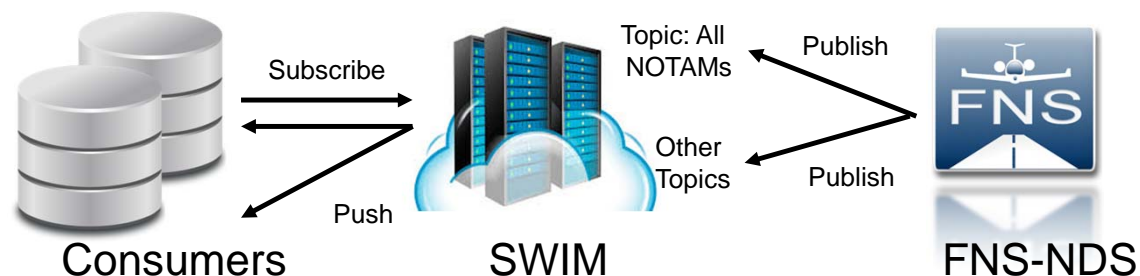
**Location**

- active NOTAMs with NOTAM location id

**Free Text Search**

- active NOTAMs that match text string

# Publish/Subscribe Service

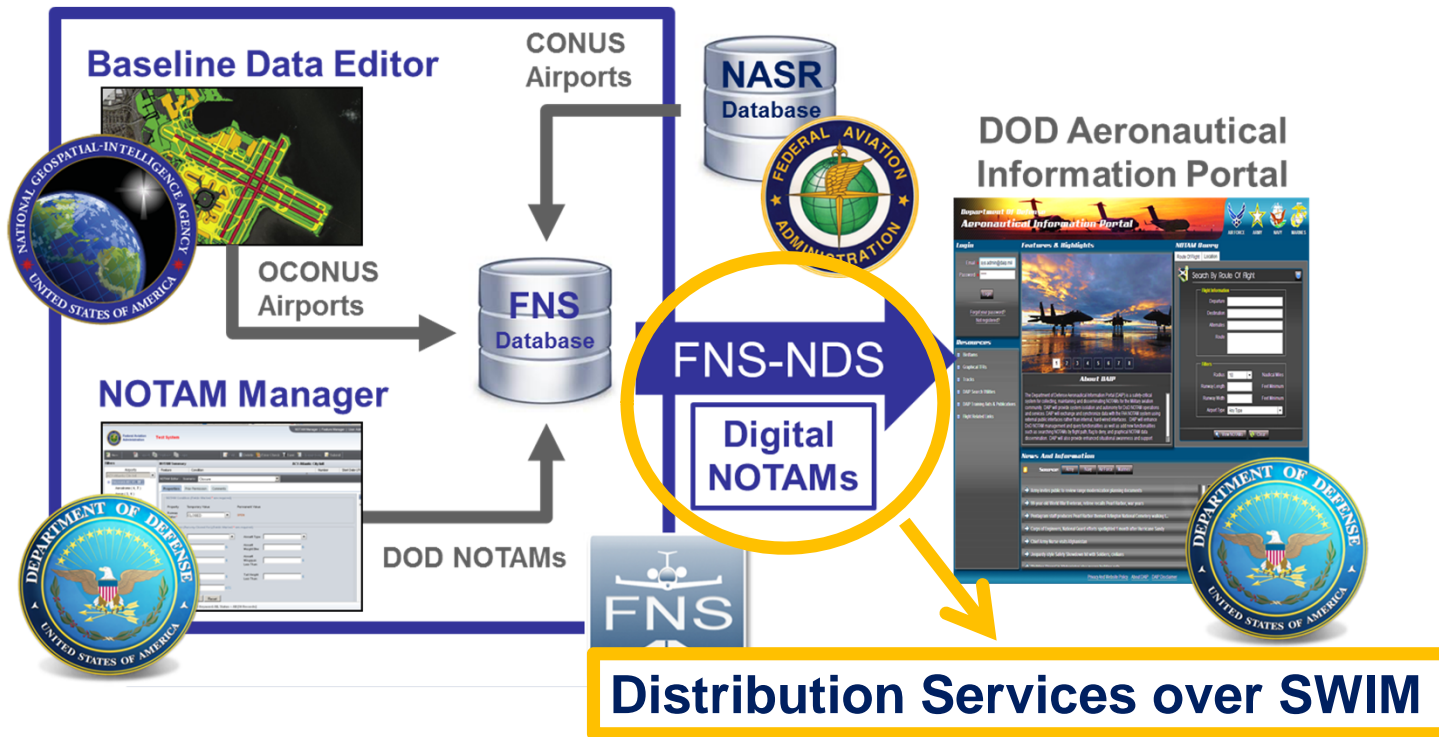


**Available  
NOW!**

## Advantages to Pub/Sub:

- Loose coupling between provider and consumer
- Scalability
- User specific subscription criteria
- Live on 9/17/16

# Operational Users



**New consumers**

- FAA OEAAA System, Various Third-Party Vendors

**ATTEC**

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# How to Connect

- 1 Test Agreements with FNS Program Office
- 2 System Development and Testing
- 3 Coordinate with and connect to SWIM
- 4 Operational

# Agreements/Development

## Access to all FNS-NDS technical documents:

- Web Service Requirements Document
- Web Service Design Document
- Web Service Definition Language
- NOTAM Event Scenarios
- ... and more!

AGREEMENT

Between

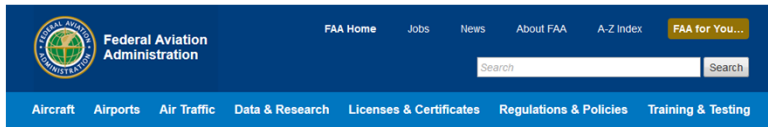
Aeronautical Information Management (AIM) of the  
Federal Aviation Administration (FAA)

and

\_\_\_\_\_

(Company or NOTAM Distribution Service Beta Test User Name)

# SWIM Coordination



System Wide Information Management (SWIM) → FAA Home • NextGen • NextGen Programs • System Wide Information Management (SWIM)

## System Wide Information Management (SWIM)

- Program Overview
- Governance
- News
- Documents
- Glossary
- Questions & Answers
- Contact Us

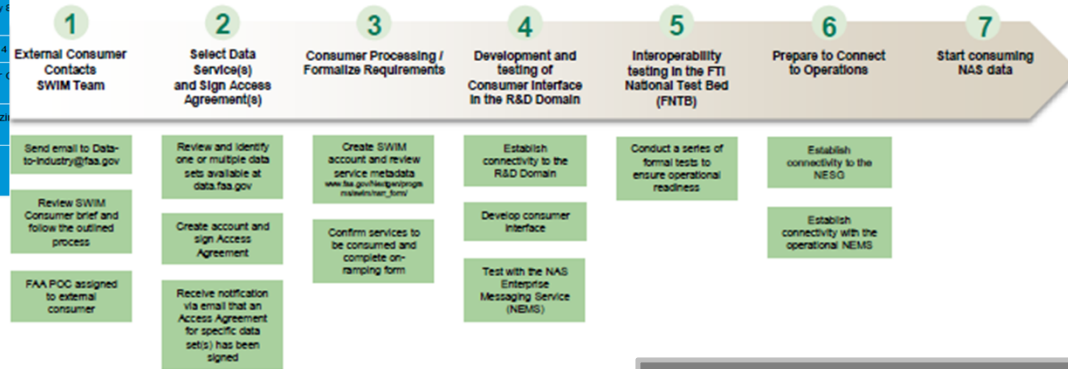
**News**

*Recent news, success stories, highlights, and announcement.*

- SWIM at World ATM Congress 2015 March 3, 2015
- Enhance Situational Awareness January 9, 2015
- Airline Tracking and Tamperproof Distress Reporting January 2015
- Avionics Today: "SWIM Heads for Final Lap" December 8, 2014
- Sky ATM Research (SESAR) SWIM Master Plan Conclusion November 20, 2014
- 2014 Featured in Managing the Skies Magazine November 14, 2014

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[More News](#)

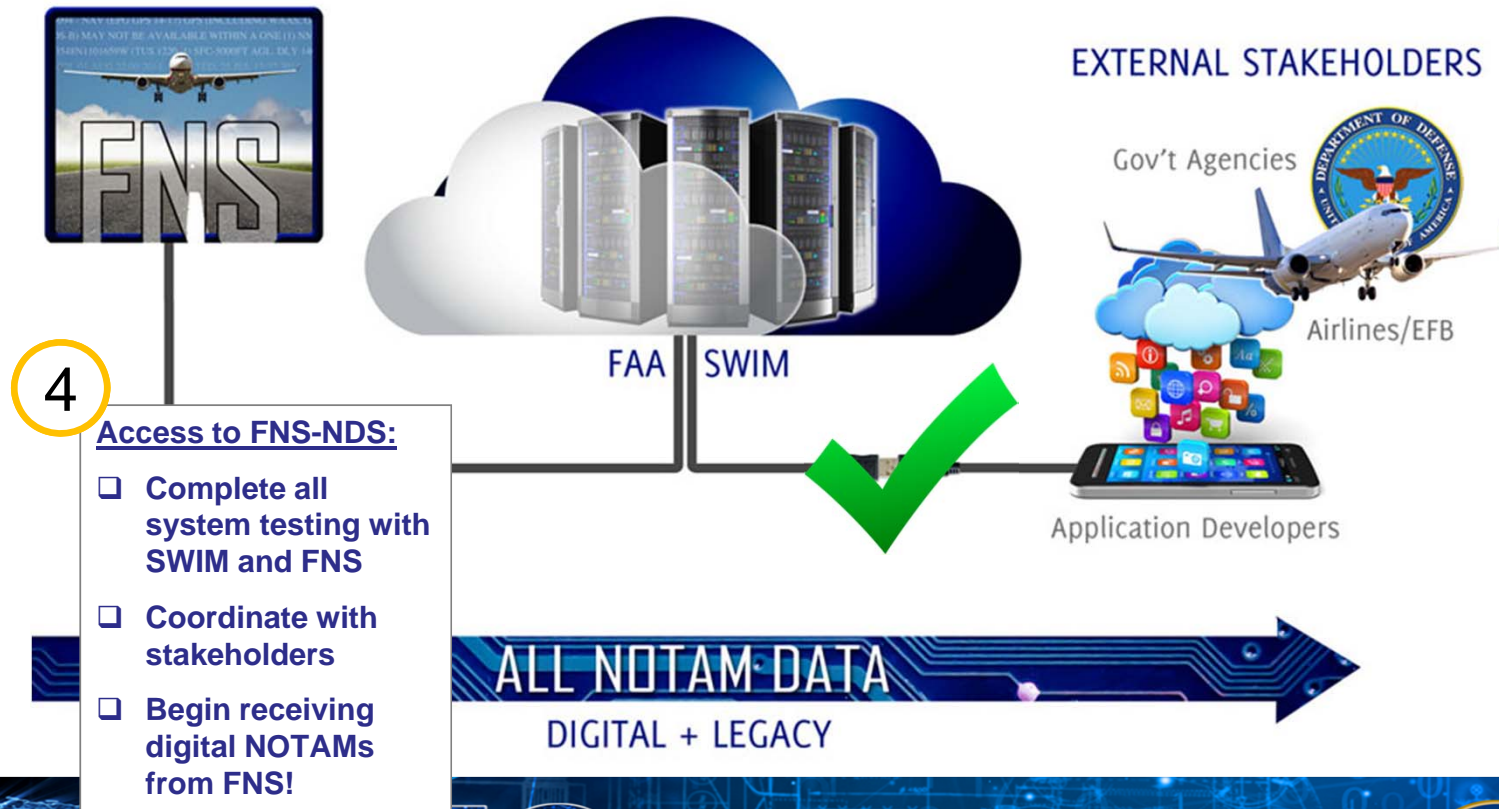


Consumer-driven process  
2-6 months

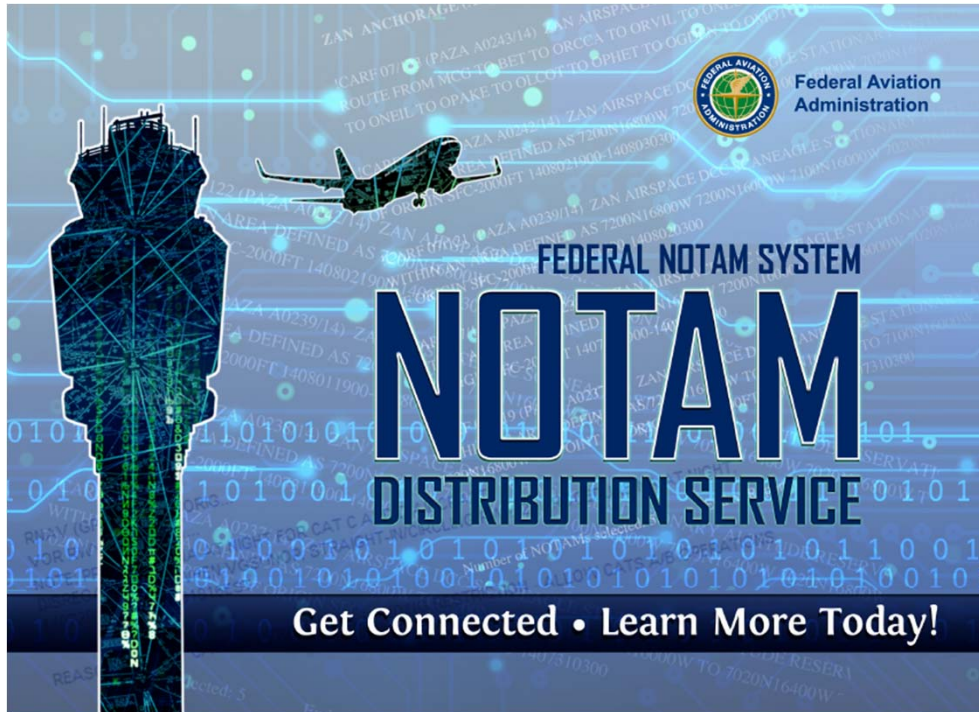
<http://www.faa.gov/nextgen/programs/swim/>



# Operational Access



# Questions



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FNS Program Manager