Global Information
Management

NOTAM Services over SWIM

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FAA

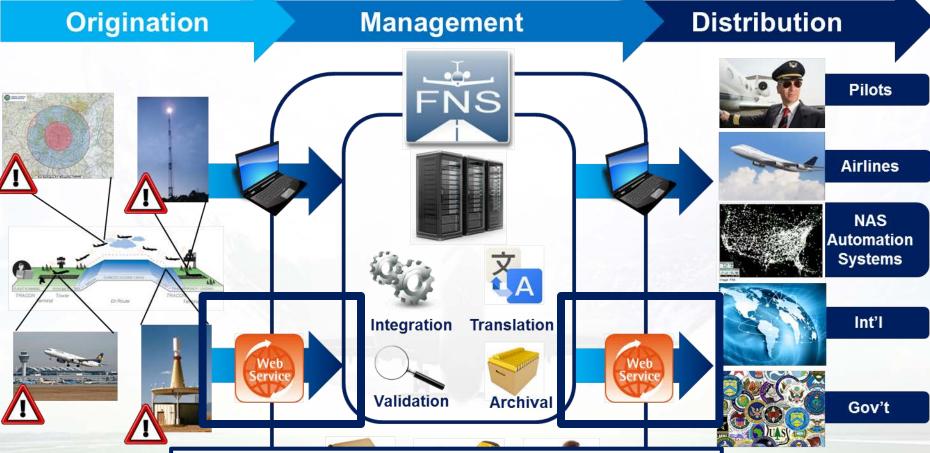
Date: August 26, 2015



NOTAM Modernization

Air Transportation Information Exchange Conference -

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Web services for collecting and disseminating digital NOTAM data



3rd Parties





Benefits of NOTAM Services

System-to-system interface

Efficient transmission of data

Data validation & business rules

Standardized templates & formats

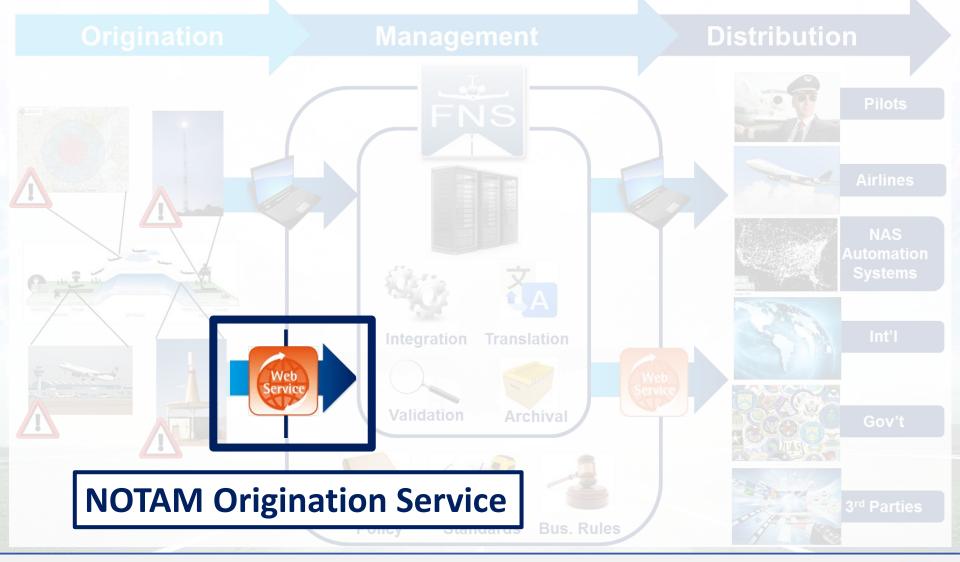
Integration of NOTAM and baseline aeronautical data



NOTAM Modernization

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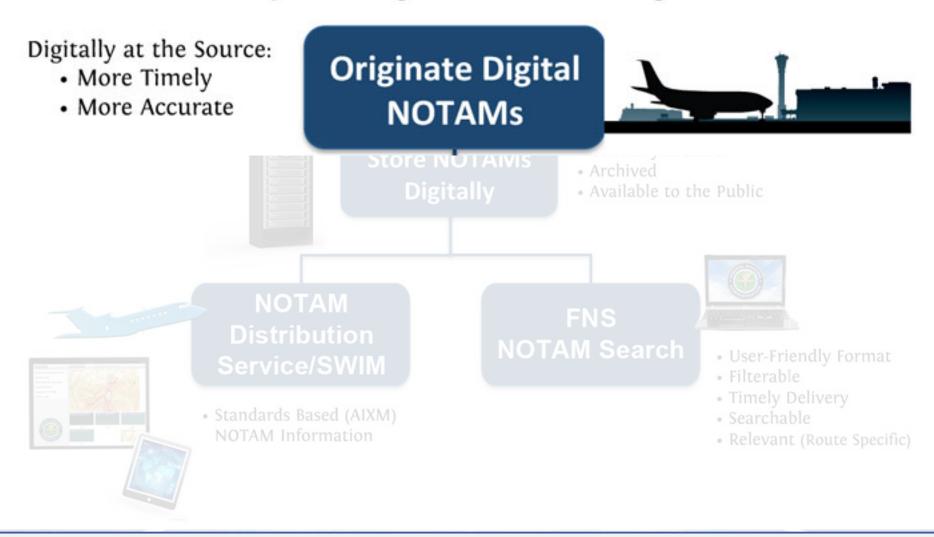
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Federal NOTAM System Implementing the Pilot's Bill of Rights







NOS Today





Tower Light Outage NOTAMS



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



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:

- Airport NOTAMs (Third party operations & maintenance software)
- Equipment NOTAMs (FAA Technical Operations systems)
- Airspace NOTAMs (SAA, TFR management systems)

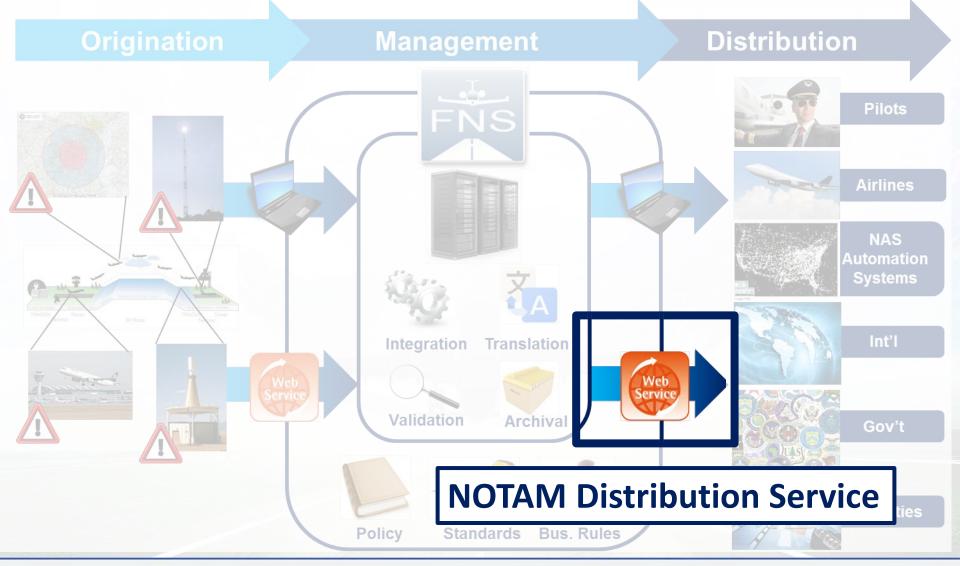




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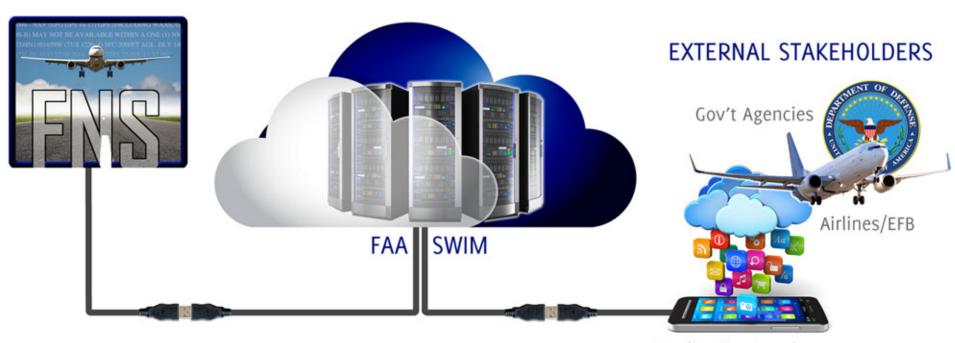
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NOTAM Distribution Service Concept



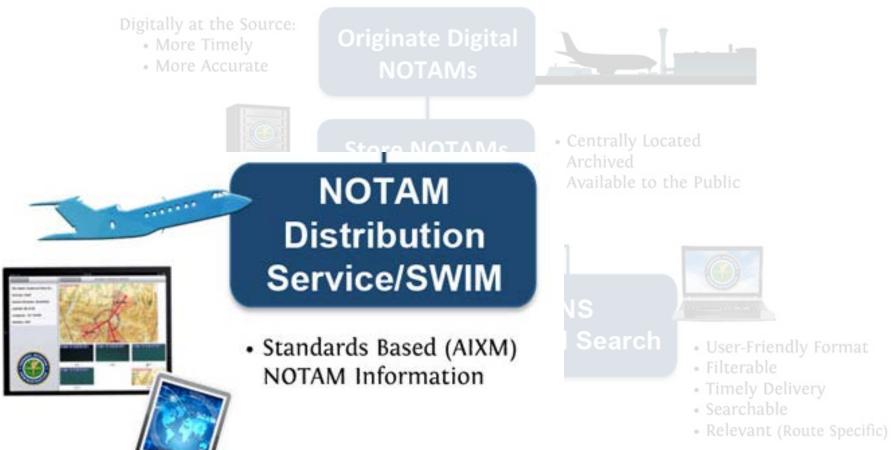
Application Developers







Federal NOTAM System Implementing the Pilot's Bill of Rights





Digital NOTAM Event Spec

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AIXM implementation facilitates true "digital NOTAM"



Request/Response Service



Example Query Types:

Free Text Search

Bulk

Delta

• changes to NOTAMs in last X minutes

Geographic

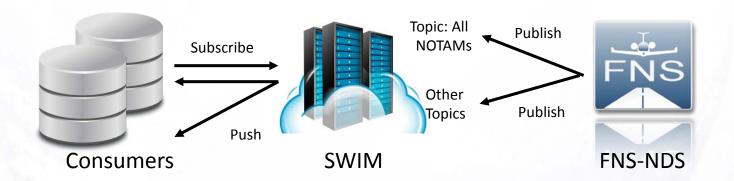
• active NOTAMs with X radius of location or coordinates

Location

• active NOTAMs with NOTAM location id

active NOTAMs that match text string

Publish/Subscribe Service

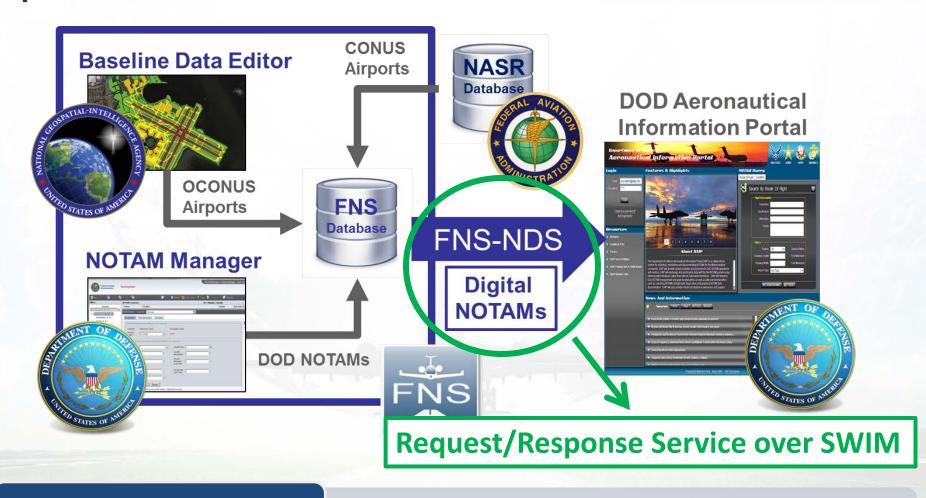


Advantages to Pub/Sub:

- Loose coupling between provider and consumer
- Scalability
- Coming soon!



Operational Users



New consumers

FAA OEAAA System, 2 Third-Party Vendors





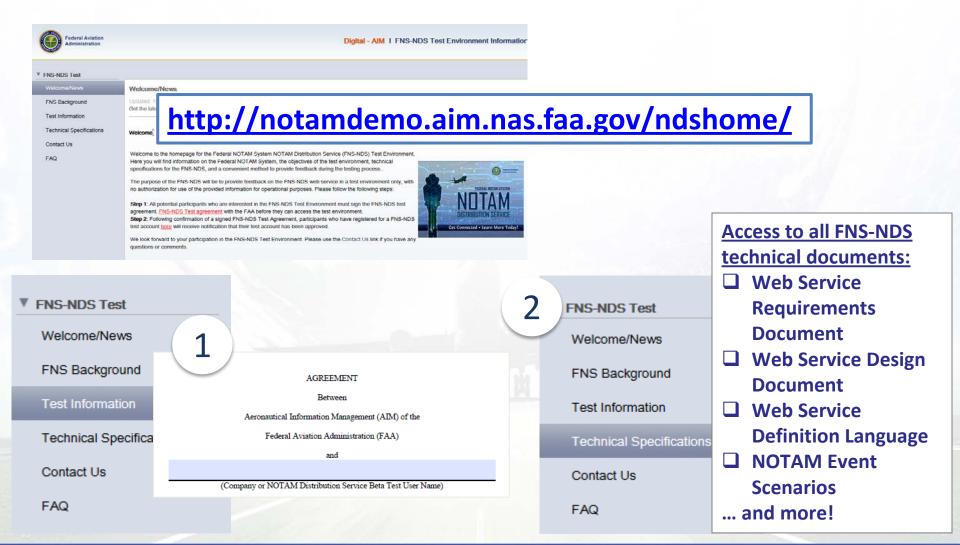
How to Connect

- Test Agreements with FNS Program Office
- 2 System Development and Testing

- 3 Coordinate with and connect to SWIM
- **4** Operational



Agreements/Development





SWIM Coordination



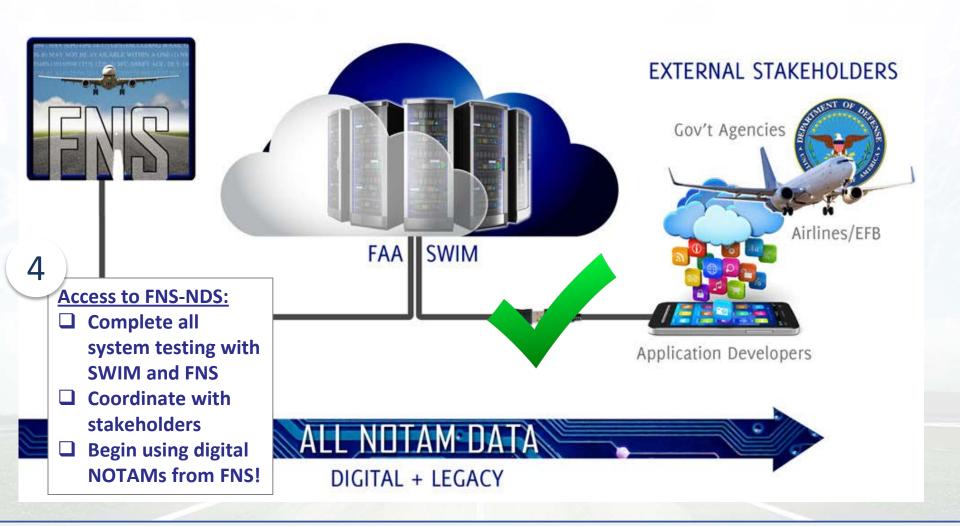
http://www.faa.gov/nextgen/programs/swim/





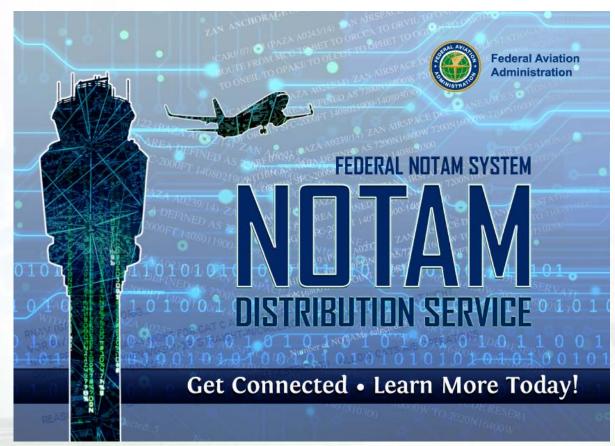
Operational Access

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Questions



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