

Introduction to Digital NOTAM Demonstration

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**Federal Aviation
Administration**



Digital NOTAM System - What is it?

- **Demonstration project**

- Evaluate and ensure digitally encoding NOTAMs are plausible
- Identify technology challenges and limitations
- Prove AIXM can support digital encoding of NOTAMs
- Develop concept of operations
- Study distribution issues
- Develop different NOTAM displays (views)
- Platform to obtain stakeholder feedback and develop requirements
- Help identify risks and management issues

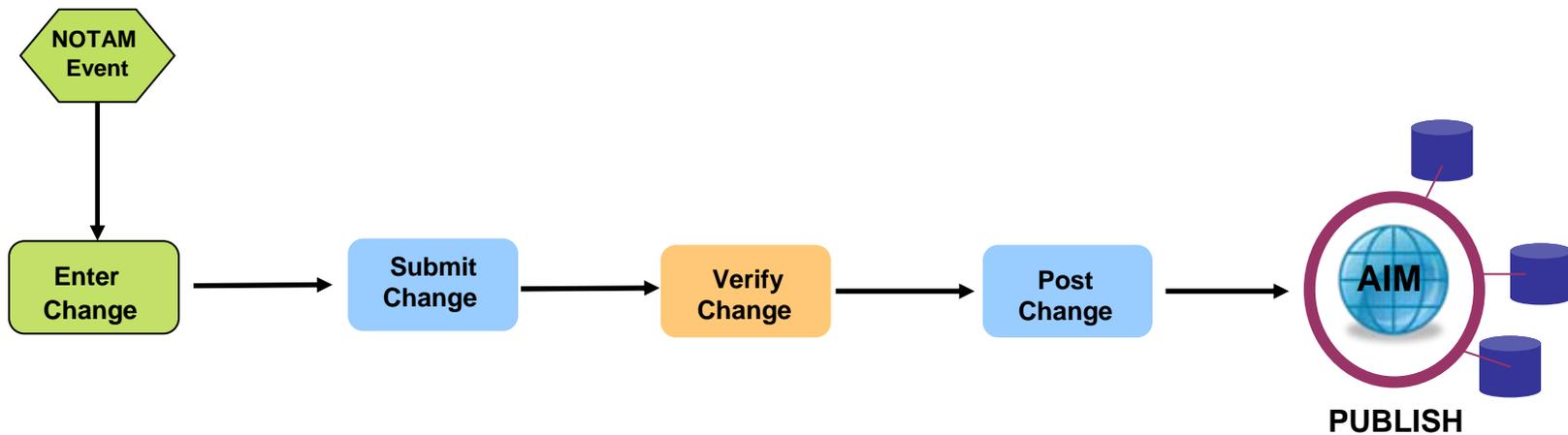


Requirements

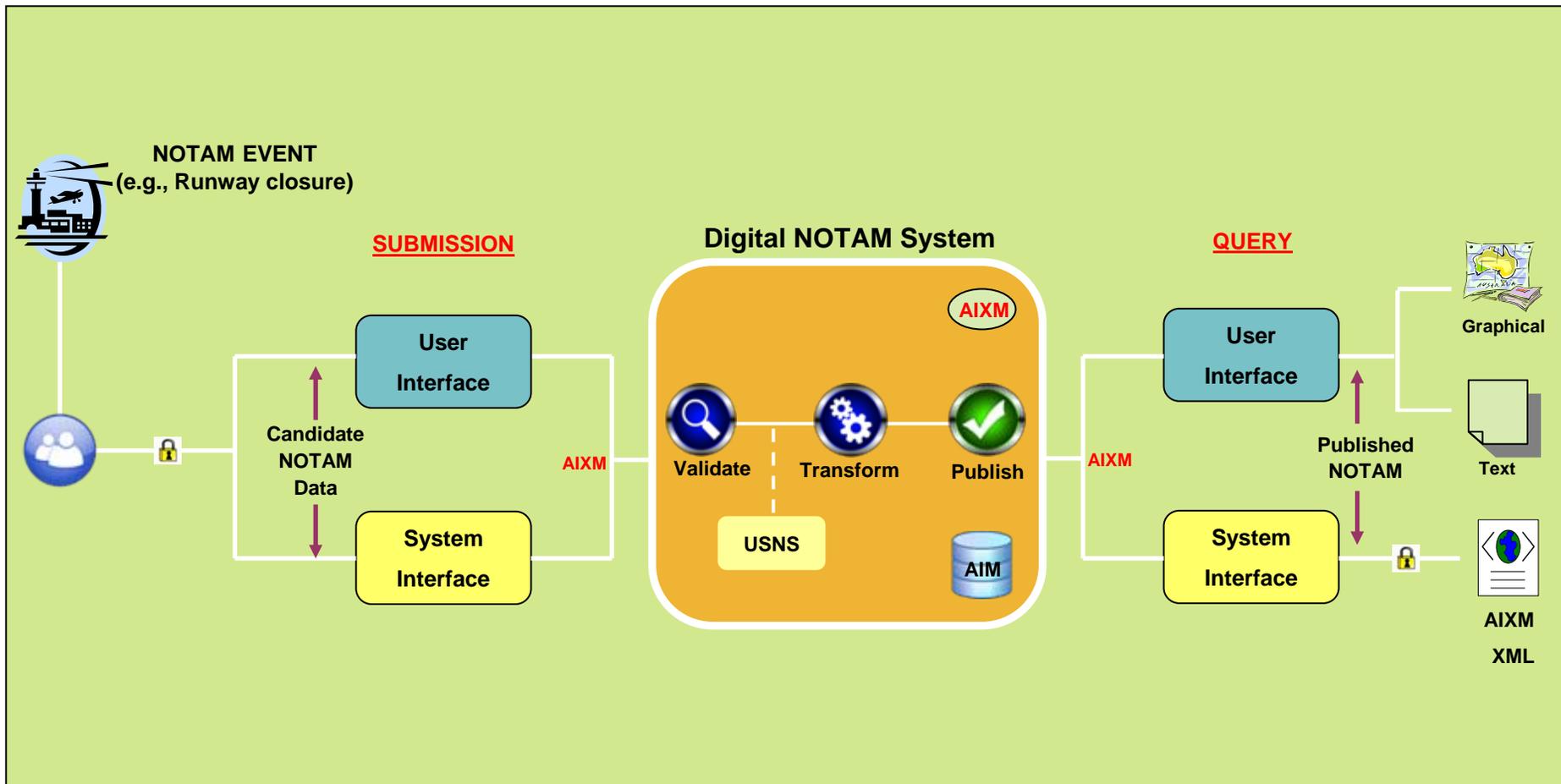
- **Enable NOTAM originators to create/submit candidate NOTAM information**
 - Data integrity
 - Traceability
- **Eliminate NOTAM free-form text**
 - Standardize and consistent NOTAM content
 - Facilitates computer interpretation
- **Provide NOTAM information in multiple views**
 - Human readable formats
 - Compatible with ICAO standards
- **Automated Entry and Validation**
 - Business Rules
 - Validating against permanent data
 - Validating against operational procedures (e.g., cannot close runway WIF UFN)
- **Facilitate querying and sorting**
- **Electronic submission and distribution**



Concept of Operations For Originator



Concept of System Operations



Validation

- **Encoding NOTAM data digitally allows for validation**
 - Apply business rules
 - Example: TODA > TORA
 - Validate temporary data against permanent data
 - Eliminate potential user entry errors
 - Example: Selection of incorrect Runways for an Airport
 - Ensure mandatory fields are provided
 - Operational validation
 - **Enhanced Data Quality!**



Transformation

- **NOTAM data in digital form allows for transforming it into multiple textual and graphical views**
 - FAA Traditional format
 - ICAO format
 - Human readable format – plain language
 - Graphical display – charting
 - Electronic distribution format – AIXM 5 XML



Summary

- Enables digital entry at the source
- NOTAM data in customer's preferred view
- Standardization and Quality Assurance
- Adopts International data standards

RELIABLE

ACCURATE

TIMELY

Questions & Discussion



Application Interface - Submission

- **User Interface**

- Web application, access using a browser
- Wizard driven application (eg., TurboTax tax software)
- Data pre-populated where possible (eg., Runways)
- Permanent data provided to help with entering valid information
- Preview containing textual transformations & where possible graphical view of the temporary change

- **System Interface**

- AIXM 5 XML
- Validation Service
- Transformation service

