



# NOTAM Roadmap

# NOTAM Roadmap

Aeronautical Information Management  
System Operations  
Air Traffic Organization  
Federal Aviation Administration  
September 2009



Federal Aviation  
Administration



# Discussion

- **Concept of Operations**
- **High Level Roadmap**
- **FAA Order Timeline**
  - International Crossover NOTAMs
- **Adoption of ICAO Series**
- **Digital NOTAMs**
  - Capture
  - Automation
  - Distribution

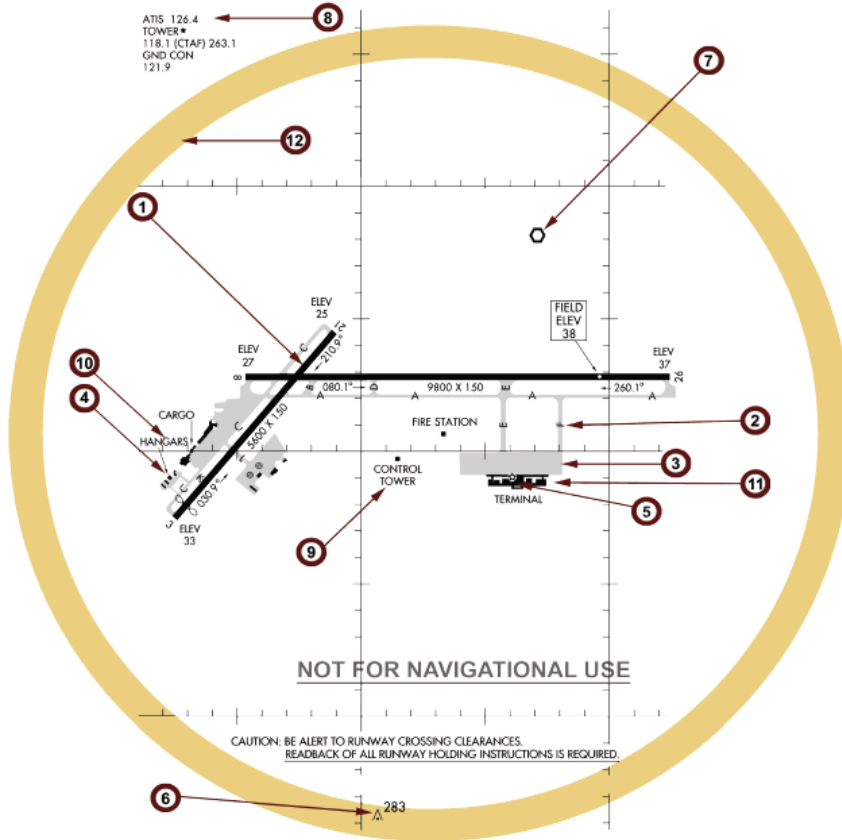


# Revised High-level Roadmap

Activity	Date	<input checked="" type="checkbox"/>	Desired Result
Industry Day	May '07	<input checked="" type="checkbox"/>	Commitment by U.S. Government to modify NOTAM system
Initial Policy Change	Jan '08	<input checked="" type="checkbox"/>	NOTICE: Align D NOTAM criteria with ICAO NOTAM criteria (reclassify civil L NOTAMs)
Initial USNS Stabilization	June '08	<input checked="" type="checkbox"/>	Replace USNS hardware
Federal NOTAM System Version 1 (FNS1)	Spring '10		AIM Modernization Program – Initial operating capabilities. Achieve full ICAO compliance in <u>automation</u>
ICAO NOTAM Phase 1	August '10		Complete ICAO compliant Q-line for <u>international</u> NOTAMs Align non-Airport international NOTAMs to K series
ICAO NOTAM Phase 2	August '11 Feb '12		Align NOTAMs to expanded series codes ICAO-compliant domestic NOTAMs??
Federal NOTAM System Version 2 (FNS2) (Full capability)	2011+		AIM Modernization Program – Full capability Federal NOTAM System (Digital Entry, Digital Distribution, Multiple Sites, Full briefing capabilities, CARF redesign)

# Monday – 28 January 2008 0500 UTC

## The “D” NOTAM



### Keywords

### NOTAM Examples

<b>RWY</b>	<b>1</b>	<b>RWY 3/21 CLSD</b> Runways 3 and 21 are closed to aircraft.
<b>TWY</b>	<b>2</b>	<b>TWY F LGTS OTS</b> Taxiway F lights are out of service.
<b>RAMP</b>	<b>3</b>	<b>RAMP TERMINAL EAST SIDE CONSTRUCTION</b> The ramp in front of the east side of the terminal has ongoing construction.
<b>APRON</b>	<b>4</b>	<b>APRON SW TWY C NEAR HANGARS CLSD</b> The apron near the southwest taxiway C in front of the hangars is closed.
<b>AD</b>	<b>5</b>	<b>AD ABN OTS</b> Aerodrome's airport beacon is out of service
<b>OBST</b>	<b>6</b>	<b>OBST TOWER 283 (246 AGL) 2.2 S LGTS OTS (ASR 1065881) TIL 0707272300</b> Obstruction. The lights are out of service on a tower that is 283 feet above mean sea level (MSL) or 246 feet above ground level (AGL) 2.2 statute miles south of the field. The FCC antenna structure registration (ASR) number is 1065881. The lights will be returned to service 2300 UTC (Coordinated Universal Time) on July 27, 2007.
<b>NAV</b>	<b>7</b>	<b>NAV VOR OTS</b> Navigation. The VOR located on this airport is out of service.
<b>COM</b>	<b>8</b>	<b>COM ATIS OTS</b> Communications. The Automatic Terminal Information Service (ATIS) is out of service.
<b>SVC</b>	<b>9</b>	<b>SVC TWR 1215-0330 MON-FRI/1430-2300 SAT/1600-0100 SUN TIL 0707300100</b> Service. The control tower has new operating hours, 1215-0330 UTC Monday Thru Friday, 1430-2300 UTC on Saturday, and 1600-0100 UTC on Sunday until 0100 UTC on July 30, 2007.
	<b>10</b>	<b>SVC FUEL UNAVBL TIL 0707291600</b> Service. All fuel for this airport is unavailable until July 29, 2007 at 1600 UTC.
	<b>11</b>	<b>SVC CUSTOMS UNAVBL TIL 0708150800</b> Service. United States Customs service for this airport will not be available until August 15, 2007 at 0800 UTC.
<b>AIRSPACE</b>	<b>12</b>	<b>AIRSPACE AIRSHOW ACFT 5000/BLW 5 NMR AIRPORT AVOIDANCE ADZD WEF 0707152000-0707152200</b> Airspace. There is an airshow being held at this airport with aircraft flying 5000 feet and below within a 5 nautical mile radius. Avoidance is advised from 2000 UTC on July 15, 2007 until 2200 UTC on July 15, 2007.

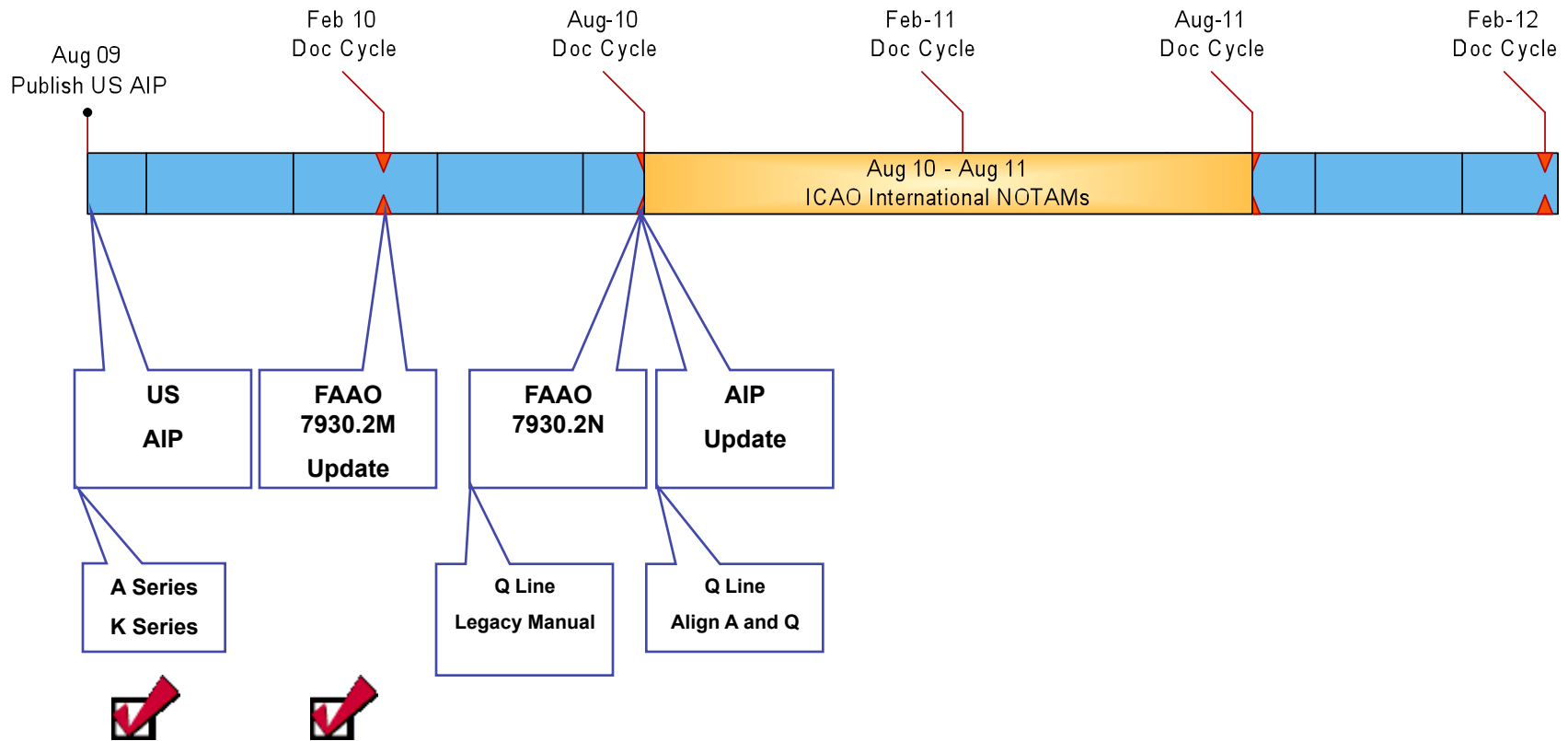
NOTE: All "D" NOTAMS will have a keyword at the beginning of the text of each NOTAM  
Effective: JAN 2008 thru AUG 2009

FAR/AATO AJR/ AIM #071307

# FAA Order Timeline

PROPOSED

For Discussion Only



# International Crossover Example

!ORD 02/328 ORD RWY 04L/22R CLSD

A0667/09 NOTAMN

A) KORD <Facilities>

B) 0902141700 <From>

C) 0902141800 <To>

E) QMRLC RWY 04L/22R CLSD



# ICAO NOTAM Example

Series

Action (N,R,C)

A0667/09 NOTAMN  
 Q) KZAU/QMRLC/IV/NBO/A/000/999/4158N08754W  
 A) KORD <Facilities>  
 B) 0902141700 <From>  
 C) 0902141800 <To>

Okay for  
computer

D)  
 E) RWY 04L/22R CLSD <Text>  
 F) <Lower Limit>  
 G) <Upper Limit>

Traffic (I,V,K)  
 Purpose (N,B,O,K)  
 Scope (A,E,W,K)  
 Lower Limit  
 Upper Limit  
 Coordinates

Q) KZAU/QMRLC/IV/NBO/A/000/999/4158N08754W  
 ↑            ↑  
 FIR        Q-Code

Legacy Text: KORD RWY 04L/22R CLSD





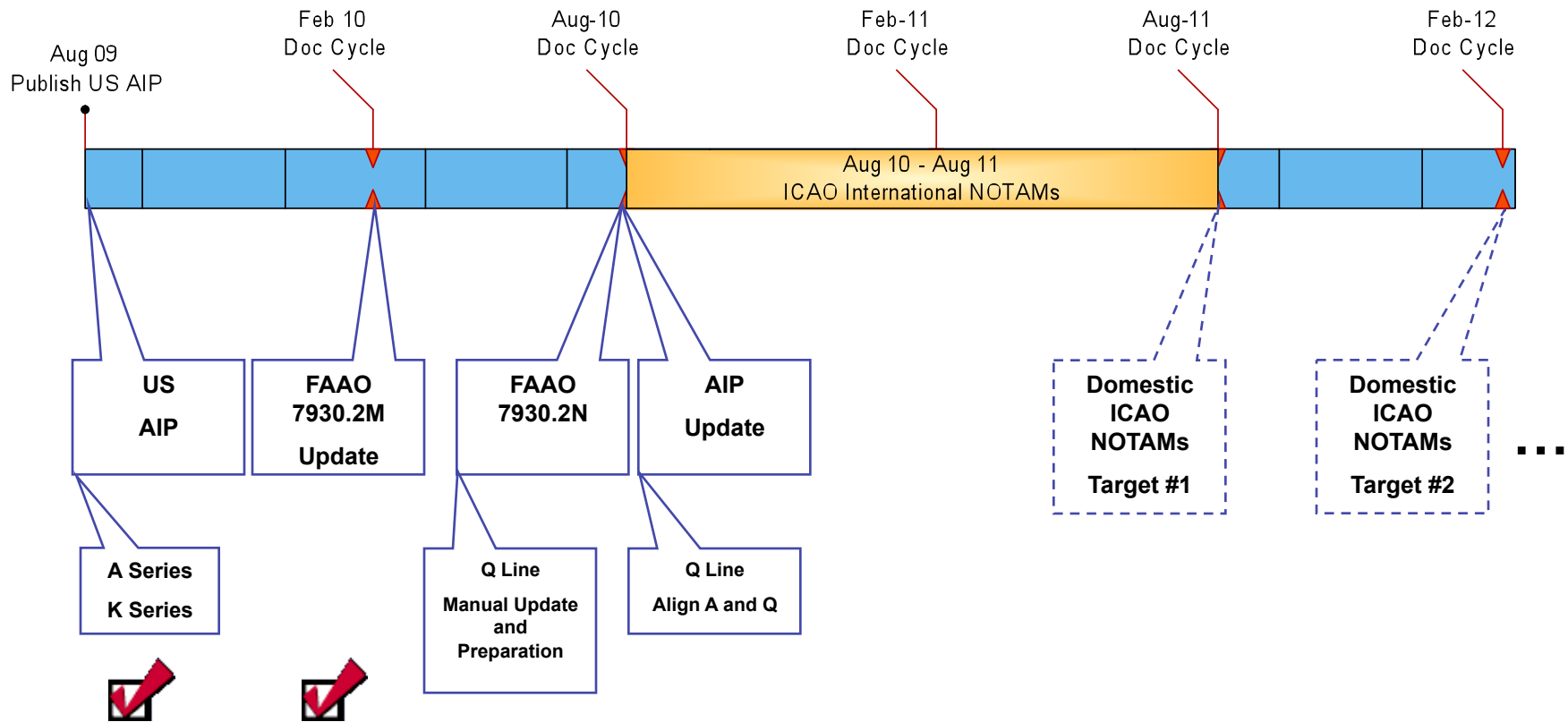
# Adoption of ICAO Series

- **Review of Timeline**
- **Series Transition**
- **ICAO Series DRAFT**



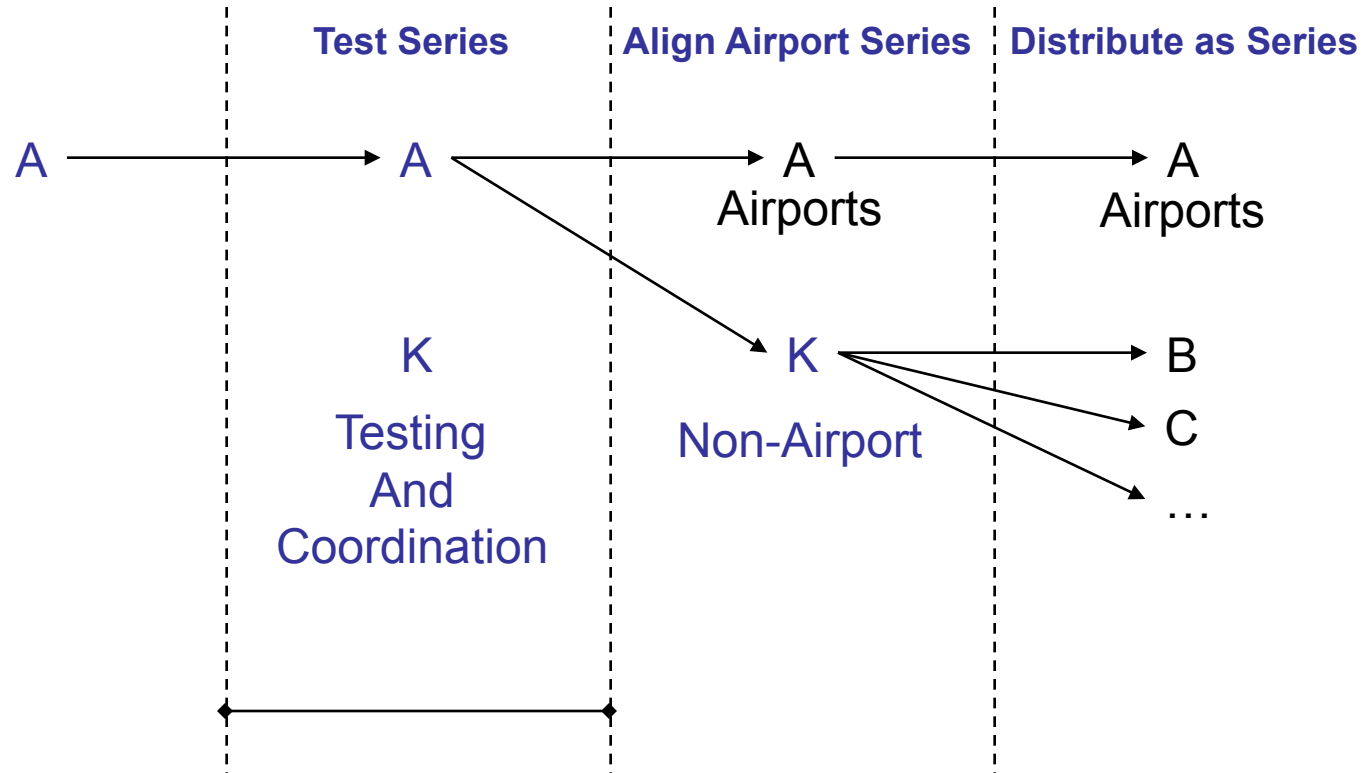
# FAA Order Timeline

PROPOSED  
For Discussion Only



# Series Transition

PROPOSED  
For Discussion Only



K is a transition container

# ICAO NOTAM Series/1

- **Series A – Aerodrome, Movement Area, and Associated Lighting**
  - Aerodrome services (Customs, ARFF, RVR)
  - Obstructions within 5 SM of Aerodrome
  - Movement Area; Movement Area Lighting
  - Bird Hazards
- **Series C – Communication and Surveillance**
  - Air to Ground Frequency
  - RADAR Services and Systems
- **Series D – Airspace Reservations**
  - Special Use Airspace
  - MOA
  - TFR



# ICAO NOTAM Series/1 Examples

A1070/09 NOTAMN

Q) KZDC/QMRLC/IV/NBO/A 000/999/3856N772760W

A) KIAD B) 0910081630 C) 1010082000

E) RWY 1C/19C CLSD

C1077/09 NOTAMN

Q) KZDC/QCAAS/IV/NBO/A 000/999/3856N772760W

A) KIAD B) 0910081800 C) 0911132000

E) COM ATIS 132.65 OTS

# ICAO NOTAM Series/2

PROPOSED

For Discussion Only

- **Series E – Navigation Warnings**
  - Parachute Jumping
  - Laser Light Activity
  - Air Shows
  - Unmanned Aircraft Systems
- **Series G – GNSS NOTAMs (GPS, WAAS, LAAS)**
  - GPS
  - GPS Receiver Autonomous Integrity Monitoring (RAIM)
  - WAAS
  - LAAS



# ICAO NOTAM Series/3

PROPOSED

For Discussion Only

- **Series H – Chart, Publication, and Database Advisories**
  - Checklist NOTAM
  - Chart Changes
- **Series K –Obstruction & Other Aeronautical Advisories**
  - Obstructions 5 SM or more from Aerodrome
  - National emergency or security actions
- **Series L – Domestic Distribution NOTAMs (Reserved)**
- **Series M – Department of Defense**
- **Series N – NAVAID and Landing Systems**
  - ILS, MLS, and components



# ICAO NOTAM Series/4

PROPOSED

For Discussion Only

- **Series P – Procedures**
  - Flow Control, ADIZ Procedures
  - IAPs, , Holding Altitudes
  - STARs, SIDs, DP, Missed Approach Procedures
- **Series R – Field Conditions (Reserved)**
- **Series Y – Air Traffic Management Services**
  - ATC Facilities
    - Tower Evacuation, Change in Operating Hours
  - ATC Services
    - ATIS
  - VOLMET and Wx Service
  - Aeronautical Information
    - NOTAM System





# ICAO NOTAM Series/5


PROPOSED

For Discussion Only

- **Series Z – Controlled Airspace and ATS Routes**
  - ADIZ Boundaries
  - Oceanic Control Area, Control Zone, Class B, C, D Airspace
  - Published ATS Routes, MEA, MIA, Minimum Crossing Altitudes, Intersections



# NOTAMS.AIM.FAA.GOV

 Federal Aviation Administration

« Federal NOTAM System (FNS) - Beta

**Useful Links**

- [AIM News](#)
- [NOTAM Manual](#)
- **NOTAM D**
  - [Poster](#)
  - [Brochure](#)
- **AIXM**
  - [FAA](#)
  - [AIXM.aero](#)

**Federal NOTAM System (FNS) - Beta**  
Welcome!

If you have any questions relating to FNS applications please email [fns@faa.gov](mailto:fns@faa.gov). If you need an urgent reponse please contact [Daniel Miller](#) 202-385-7040.

**FNS Applications (Please read warnings below)**

- [Public NOTAM Search](#) (*Public Access*)
- [ATC NOTAM Search](#) (*Restricted*)
- [Digital NOTAM Entry](#) (*Demo*)

**NOTAM Industry Day (October 14, 2009 at 800 Independence Ave SW, Washington DC)**  
The FAA Office of Airspace and Aeronautical Information Management (AIM) is hosting a NOTAM Industry Day on October 14, 2009 from 9 AM to approximately 4 PM in the Bessie Coleman Room of FAA Headquarters, 800 Independence Ave SW, Washington DC. The purpose of the meeting is to update internal and external stakeholders about the FAA's progress and plans towards modernizing the NOTAM system.

**Draft Agenda:**


- 09:00 AM Introduction
- 09:30 AM AIM Modernization goals
- 10:00 AM Update - GNSS/RAIM/PilotWeb
- 12:00 PM -- lunch on your own --
- 13:30 PM Update - Digital NOTAM
- 14:15 PM Field Implementation - Airports  
Field Implementation - ATC
- 15:30 PM ICAO NOTAM Roadmap
- 16:00 PM Conclusions

The meeting is open to the public but space is limited. Please arrive approximately 15-30 minutes early to complete security screening.

Done Trusted sites



# Public NOTAM Search (External Page)



Federal Aviation Administration

\*\*\*\*\* DISCLAIMER: Please note that your official source for NOTAMs is your Flight Service Station. \*\*\*\*\*

[Leave Feedback](#)

**digital - AIM FNS | NOTAM Search**

UTC: Thu 27 Aug 2009 1722

Search Criteria

**Location Search**

**Accountability Search**

**Geographic Search**

Lat/Long  Designator

Designator:

Radius:  NM (Max. of 100)

Class Filter is OFF

**Filter Results**

NOTAM Number:

Condition word:

**NOTAM Counts**

BOS 29

ZBW 40

NOTAMs within 10 NM around BOS

Location	NOTAM #	Class	Start Date UTC	End Date UTC	NOTAM Condition
ZBW	07/394	Airspace	09/29/2009 1800	09/29/2009 2000	AIRSPACE W105A 10000-FL500 AVOIDANCE ADVISED WEF 0909291800...
ZBW	07/393	Airspace	09/29/2009 1400	09/29/2009 1600	AIRSPACE W105A 10000-FL500 AVOIDANCE ADVISED WEF 0909291400...
ZBW	07/381	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE ADIRONDACK A MOA 6000-17900 WEF 0909291230-0909291...
ZBW	07/389	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE TUPPER EAST MOA 10000-17900 WEF 0909291230-0909291...
ZBW	07/388	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE TUPPER CENTRAL MOA 8000-17900 WEF 0909291230-09092...
ZBW	07/387	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE LOWVILLE MOA 100-17900 WEF 0909291230-0909291400
ZBW	07/386	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE CARTHAGE WEST MOA 6000-17900 WEF 0909291230-090929...
ZBW	07/385	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE CARTHAGE EAST MOA 100-17900 WEF 0909291230-0909291...
ZBW	07/384	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE ADIRONDACK D MOA 5000-17900 WEF 0909291230-0909291...
ZBW	07/383	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE ADIRONDACK C MOA 100-17900 WEF 0909291230-090929140...
ZBW	07/382	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE ADIRONDACK B MOA 2500-17900 WEF 0909291230-0909291...
ZBW	07/392	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE YANKEE 1 MOA 9000-17900 WEF 0909291230-0909291400
ZBW	07/391	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE TUPPER WEST MOA 8000-17900 WEF 0909291230-090929140...
ZBW	07/390	Airspace	09/29/2009 1230	09/29/2009 1400	AIRSPACE TUPPER SOUTH MOA 8000-17900 WEF 0909291230-0909291...
BOS	08/226	Taxiway	08/26/2009 1734		TWY C PAEW BTWN TWY M AND RWY 4R
BOS	08/226	Taxiway	08/26/2009 1733		TWY PAEW IN GRASS AREA OF TWY A,B BTWN TWY K,N
BOS	08/223	Taxiway	08/26/2009 1015		<span style="color: red;">●</span> TWY D <b>CLSD</b> BTN RWY 15R/33L AND RWY 9/27
BOS	08/222	Taxiway	08/26/2009 0945	09/09/2009 2359	<span style="color: red;">●</span> TWY D NEW EXTENSION <b>CLSD</b> BTN TWY C AND RWY 4R/22L TIL 0909...
BOS	08/209	Taxiway	08/24/2009 1210		<span style="color: red;">●</span> TWY C <b>CLSD</b> BTWN RWY 4R/22L AND RWY 9/27
BOS	08/199	Runway	08/23/2009 1806		<span style="color: red;">●</span> RWY 15L/33R <b>CLSD</b>
BOS	08/187	Taxiway	08/20/2009 1005		<span style="color: red;">●</span> TWY M <b>CLSD</b> TO HEAVY ACFT BTWN TWY C,E
BOS	08/184	Runway	08/20/2009 1000		RWY 9/27 UNGROOVED BTN AER 8 AND TWY C
BOS	08/180	Obstruction	08/19/2009 2338		OBST CRANES (150 AGL) 1 W AER 9 UNLGTD
BOS	08/171	Taxiway	08/19/2009 0256	10/31/2009 2359	<span style="color: red;">●</span> TWY G <b>CLSD</b> TIL 0910312359
BOS	08/133	Runway	08/15/2009 0123		<span style="color: red;">●</span> RWY 14/32 <b>CLSD</b> EXC TXG
BOS	08/126	Obstruction	08/14/2009 1707	04/01/2010 0001	OBST CRANE 647 (630 AGL) 1 WSW AER 14 ON QUARRY HELICOPTER R...
BOS	08/108	Obstruction	08/13/2009 1445	04/01/2010 0001	OBST CRANE 614 (697 AGL) 1 WSW ON QUARRY HELICOPTER ROUTE (...)
BOS	08/098	Taxiway	08/13/2009 1031		TWY E BTN RWY 4R AND RWY 9 UNGROOVED
ZBW	07/435	Airspace	08/01/2009 0000	08/31/2009 2359	AIRSPACE W105A 10000/BLW AVOIDANCE ADVISED WEF 0908010000-0...
ZBW	07/439	Airspace	08/01/2009 0000	08/31/2009 2359	AIRSPACE W106C 5000/BLW AVOIDANCE ADVISED WEF 0908010000-09...
ZBW	07/438	Airspace	08/01/2009 0000	08/31/2009 2359	AIRSPACE W106B 5000/BLW AVOIDANCE ADVISED WEF 0908010000-09...
ZBW	07/437	Airspace	08/01/2009 0000	08/31/2009 2359	AIRSPACE W106A 3000/BLW AVOIDANCE ADVISED WEF 0908010000-09...
ZBW	07/436	Airspace	08/01/2009 0000	08/31/2009 2359	AIRSPACE W105B 5000/BLW AVOIDANCE ADVISED WEF 0908010000-09...
BOS	07/353	Navaid	07/31/2009 1131		NAV VOR UNMNT

Showing results 1 to 50 of 69

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# Digital Capture

**Federal Aviation Administration** | My Profile | Preferences | Help | Logout

**Digital - AIM | NOTAM - Manager**

NOTAM Manager | Feedback | Barry Davis | September 10 2009 THU 1232 UTC

**Airports**

DEN-Denver Intl

ALL ( 3 / 11 )

- Aerodrome ( 0 / 1 )
- Apron ( 0 / 1 )
- Communication ( 0 / 0 )
- Navigation ( 0 / 0 )
- Obstruction ( 0 / 0 )
- Runway ( 3 / 7 )
- Services ( 0 / 0 )
- Taxiway ( 0 / 2 )

Keyword	Designator	Condition	Number	Start Date UTC	End Date UTC	Status
Taxiway	AN	Generic Form	-	09/09/2009 07:42	09/11/2009 10:10	Draft
Taxiway	B	Generic Form	-			Draft
Runway	17R	Runway Visual Range Status	09/042	09/00/2009 20:00	09/30/2009 12:10	Cancelled
Runway	08	Generic Form	-			Draft
Runway	26	Declared Distance	09/051	09/10/2009 12:25	09/11/2009 12:12	Active
Runway	35L	Threshold Displacement	09/039	09/00/2009 19:10	09/09/2009 12:10	Expired
Runway	07/25	Closure	09/050	09/10/2009 12:23	09/11/2009 14:00	Active
Runway	34R	Threshold Displacement	09/038	09/08/2009 18:48	09/22/2009 10:20	Active
Runway	00/26	Generic Form	09/043	09/09/2009 07:36	09/10/2009 12:12	Expired
Runway	34L	Approach Lighting Status	-			Draft
Runway	00/26	Closure	09/044	09/09/2009 14:54	09/11/2009 12:00	Cancelled
Runway	00/26	Closure	09/045	09/09/2009 14:55	09/10/2009 12:00	Expired
Runway	16L/34R	Closure	09/046	09/09/2009 15:16	09/09/2009 15:20	Expired
Runway	16L	Threshold Displacement	09/047	09/09/2009 15:10	09/10/2009 10:00	Expired
Runway	08	Marking Change	-	09/09/2009 20:19	09/30/2009 20:00	Draft
Runway	34R	Marking Change	09/049	09/09/2009 20:21	09/10/2009 10:10	Expired
Runway	34L	Marking Change	-	09/10/2009 12:09	09/24/2009 10:10	Draft
Runway	34L	Marking Change	-			Draft
Runway	25	Runway Visual Range Status	-			Draft
Runway	17R/35L	Closure	-	09/10/2009 08:32	09/10/2009 12:00	Draft
Apron	B Concourse South	Generic Form	-			Draft
Aerodrome	DEN	Generic Form	-	09/08/2009 23:27	09/08/2009 00:00	Draft

NOTAM Summary ALL - All [22 records]

Done | Trusted sites



# Digital Capture Scenarios

- **Generic Scenario (Simple)**
  - AD/RWY/APRON Closure
  - Service OTS
  - Personnel and Equipment Working (PAEW)
  - Birds in the area
- **Use Case Scenarios (More Complex)**
  - Purpose is to capture the complex information digitally
    - PAPI Out of Service (Simple)
    - Field Condition (Very Complex)
- **Free Text (Mostly Textual)**

# Generic Scenario

**Federal Aviation Administration** | My Profile | Preferences | Help | Logout

**Digital - AIM | NOTAM - Manager**

Barry Davis | September 11 2009 FRI 1218 UTC

NOTAM Manager [Feedback](#)

New | Cancel NOTAM | Replace | Clone | Discard | Save as Draft | Error Check | Submit NOTAM | All

**Airports**

DEN-Denver Intl

ALL (7 / 14)

- Aerodrome (0 / 1)
- Apron (0 / 2)
- Communication (0 / 0)
- Navigation (0 / 0)
- Obstruction (0 / 0)
- Runway (7 / 7)**
- Services (0 / 0)
- Taxiway (0 / 4)

NOTAM Template: RWY 25 Generic Form

**Properties** | Schedule | Prior Permission | Comments | Contact Info

Type: Runway

Where: 25

What: PAPI

Action: Out of Service

Additional Text:

**Time Duration**

Start Date (UTC) End Date (UTC)

Start Upon Activation

MM/dd/yyyy MM/dd/yyyy

Recurring Schedule

US-FAA | ICAO | Plain Language

DEN XXXXX DEN RWY 25 PAPI OTS

NOTAM Template: RWY 25 Generic Form [View Change Log](#)

NOTAM Summary - ALL - Runway - All [25 records]



# Use Case Scenario

The screenshot displays the NOTAM Manager web application interface. At the top, the Federal Aviation Administration logo and name are visible, along with navigation links for 'My Profile', 'Preferences', 'Help', and 'Logout'. The main header includes 'Digital - AIM | NOTAM - Manager' and the user's name 'Barry Davis' with the date and time 'September 11 2009 FRI 1548 UTC'. Below the header, there is a toolbar with actions like 'New', 'Cancel NOTAM', 'Replace', 'Clone', 'Discard', 'Save as Draft', 'Error Check', and 'Submit NOTAM'. The left sidebar shows a tree view of airports, with 'DEN-Denver Intl' selected. The main content area shows a form for creating a NOTAM. The 'NOTAM Template' is set to 'RWY 25'. A dropdown menu is open, showing 'Marking Change' as the selected option. The form includes sections for 'Properties' (with a 'Marking Type' dropdown), 'Time Duration' (with 'Start Date (UTC)' and 'End Date (UTC)' fields), and a 'Recurring Schedule' checkbox. The bottom of the interface shows the current template and a 'View Change Log' link.



# Free-text Scenario

The screenshot displays the NOTAM Manager interface for DEN-Denver Intl. The main workspace is titled "NOTAM Template: RWY 16L/34R Free Form". A dropdown menu for "NOTAM templates" is open, showing a list of runway-related templates such as "RWY <id> <num> AVBL", "RWY <id> <num> CMSND", "RWY <id> <num> FT SNBNK", "RWY <id> <num> IN BERM", "RWY <id> <num> IN LSR", "RWY <id> <num> IN POTHLES", "RWY <id> <num> IN PSR", "RWY <id> <num> IN SIR", "RWY <id> <num> IN SNBNK", "RWY <id> AER PAEW", "RWY <id> AER PAEW ADJ", "RWY <id> AER WINDSOCK NOT VISIBLE", "RWY <id> ALS OTS", "RWY <id> ALS OTS <num> DLY", "RWY <id> ALS UNMNT", "RWY <id> ASDA <num>", "RWY <id> BOW MU <num>", "RWY <id> BRAF", "RWY <id> BRAP", "RWY <id> CLSD", and "RWY <id> CLSD <num> DLY".

The interface includes a left sidebar for "Airports" with a tree view showing categories like Aerodrome (0/0), Apron (0/0), Communication (0/0), Navigation (0/0), Obstruction (0/0), Runway (1/3), Services (0/0), and Taxiway (3/0). The top navigation bar contains "My Profile", "Preferences", "Help", and "Logout". The main toolbar includes actions like "New", "Cancel NOTAM", "Replace", "Clone", "Discard", "Save as Draft", "Error Check", and "Submit NOTAM". The bottom status bar shows "NOTAM Template: RWY 16L/34R Free Form" and "NOTAM Summary - ALL - Runway - All [9 records]".







New Cancel NOTAM Replace Clone Discard Save as Draft Error Check Submit NOTAM

Airports

DEN-Denver Intl

- ALL (6 / 10)
- Aerodrome (0 / 1)
- Apron (0 / 0)
- Communication (0 / 0)
- Navigation (0 / 0)
- Obstruction (0 / 0)
- Runway (6 / 6)
- Services (0 / 0)
- Taxiway (0 / 3)

Keyword Designator Condition Number Start Date UTC End Date UTC Status

NOTAM Template: RWY 08/26 Runway Condition

Properties Schedule Prior Permission Comments Contact Info

Coverage:  Average Depth:

Condition:  Braking Action (Optional):

**Friction Measurement in thirds from Runway 08**

Touchdown Zone	Midpoint Zone	Rollout Zone
Friction Coefficient: <input type="text"/> MU	<input type="text"/> MU	<input type="text"/> MU
Friction Measure: <input type="text" value="BOW - Bowmon"/>		

**Clearance (Enter values only if partially cleared)**

Cleaning Method:  Width:  feet

**Treatment**

Treatment:

Length:  feet Width:  feet

**Snowbank**

Depth:

Side of Centerline:  Distance from Centerline:  feet

**Time Duration**

Start Date (UTC) End Date (UTC)

Start Upon Activation  End in 1 day(s)

Recurring Schedule

US-FAA ICAO Plain Language

IDEN XX/XXX DEN RWY 08/26 SA BOW/WEF  
0909101719-0909111719

NOTAM Template: RWY 08/26 Runway Condition View Change Log

NOTAM Summary - ALL - Runway - All [22 records]



# NOTAM Sentence

## *Or, What are we trying to capture?*

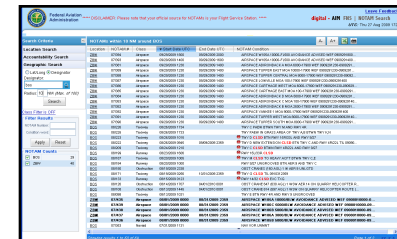
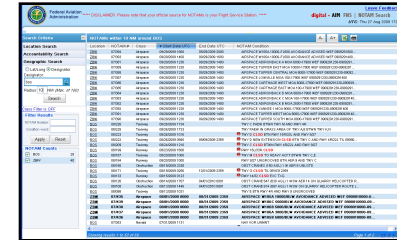
- <Class/Type> <element><feature/service> <action/message/change>  
<reference><exceptions><contact info><start time><end time>

- **Example**

- 1 – <Class/Type>
  - D NOTAMs calculated via **Keyword**
- 2 – <element>
  - This is the **where** in the message
    - Runway, Taxiway, Apron,
    - We can derive the where from the selected object
  - <feature/service> (Optional)
    - Describe **what** part or service of the element
- 3 – <action/message/change>
  - <reference> (Optional, the **why**)
  - <exceptions> (Optional)
  - <contact info> (Optional)
  - <start time> **when**
  - <end time>

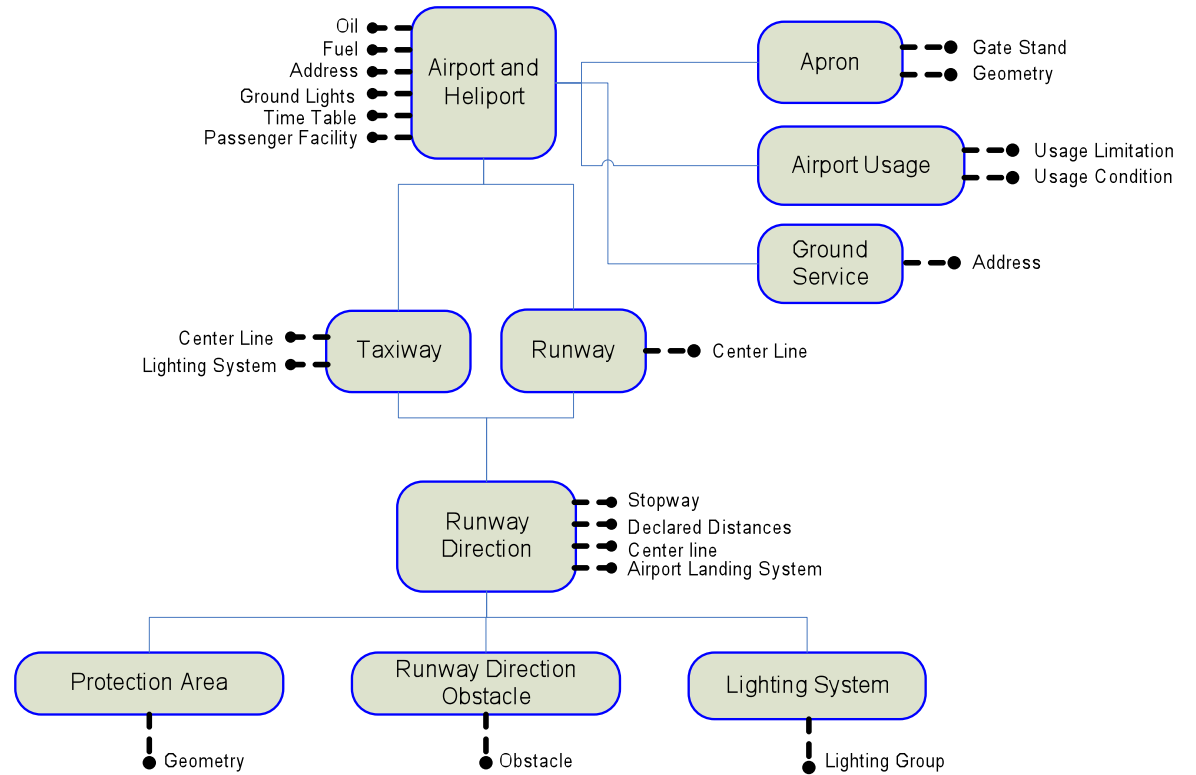
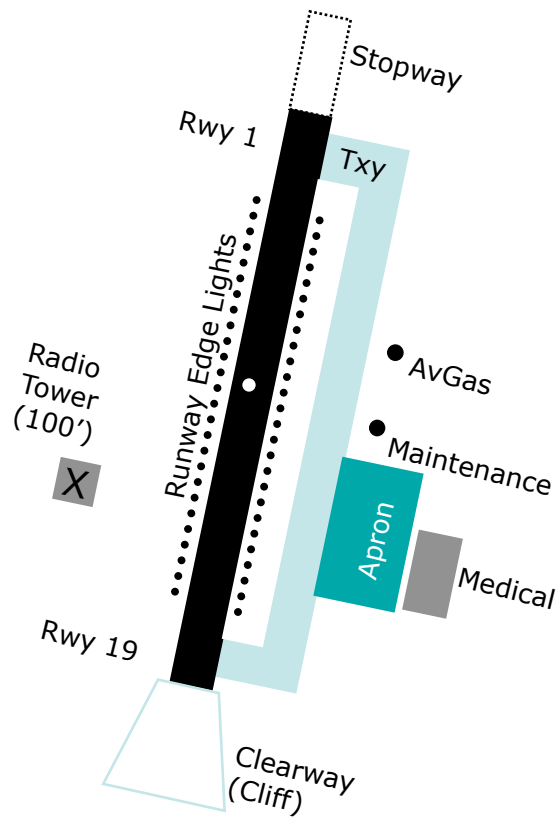
# Distribution

- **Distribution to ATC Facilities**
  - As a Data Service
  - As a Web Page with System Tray
- **External Distribution**
  - With and without a password
- **XML Digital Portal**



# What does Digital mean?

## Airports and Runways Example



# What does Digital look like?

```
<Rwy>
  <RwyUid>
    <AhpUid><codeId>IR15</codeId></AhpUid>
    <txtDesig>Runway</txtDesig></RwyUid>
    <valLen>7000</valLen>
    <valWid>500</valWid>
    <uomDimRwy>FT</uomDimRwy>
    <codeComposition>ASPH</codeComposition>
    <codeCondSfc>GOOD</codeCondSfc>
  </Rwy>
<Rcp>
  <RcpUid>
    <RwyUid>
      <AhpUid><codeId>IR15</codeId></AhpUid>
      <txtDesig>Runway</txtDesig></RwyUid>
      <geoLat>15.85N</geoLat>
      <geoLong>59.00E</geoLong>
    </RcpUid>
    <codeDatum>WGE</codeDatum>
  </Rcp>
```

XML

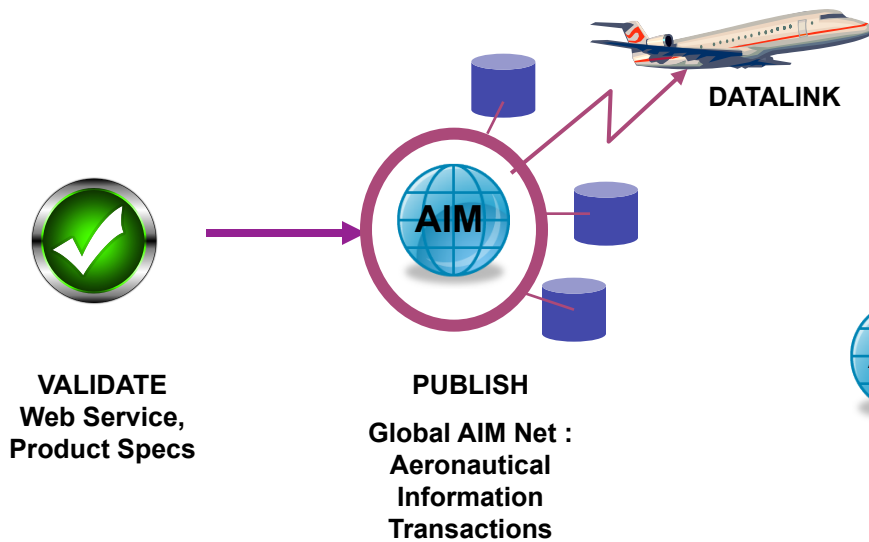
# The Digital Goal

- **Sort - Order the data**
- **Filter - Geographic, temporal, or logical extract**
- **Transpose – Convert data to graphic**
- **Alert - Evaluate the data and take action**
  
- **Fuse – Ability to merge multiple datasets**



# Concept of Operations

## *Distribution to customers*



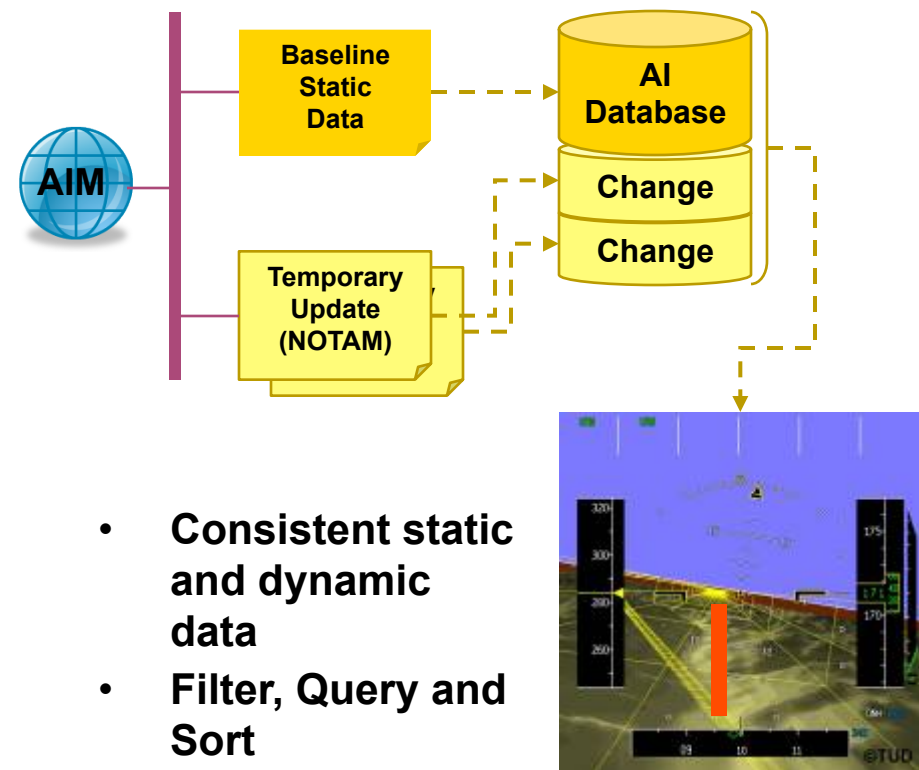
### Validate and Publish by FAA

Integrated permanent and temporary information  
Computer readable  
Electronic distribution to customers

### Common Themes

Identification and Operation [ What ]  
Period of Validity [ When ]  
Geometry [ Where ]

**And Metadata**



- **Consistent static and dynamic data**
- **Filter, Query and Sort**
- **Map and Display**

# Thank You for your support!



For more information:

[Barry.c.davis@faa.gov](mailto:Barry.c.davis@faa.gov)

[Gary.Prock@faa.gov](mailto:Gary.Prock@faa.gov)

[Gary.Bobik@faa.gov](mailto:Gary.Bobik@faa.gov)

