



**Federal Aviation
Administration**

NOTAM SYSTEM UPDATE

AIM Modernization-Digital Notams

By: Aeronautical Information Management
Air Traffic Organization – System Operations

Date: October 2008

Topics

- **Town Hall Meeting Announcements**
 - Revised Roadmap
- **Federal NOTAM System (FNS)**
- **Digital NOTAM Demo (Direct Entry)**
- **North American NOTAMs**



Revised 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
Full Architecture Stabilization	Fall '08		Move to three tier architecture and auto-generate SUA NOTAMs
Disaster Recovery and Database Consolidation	Spring '09		Physical redundancy and preparation for one Federal NOTAM System (FNS) with full ICAO implementation
Federal NOTAM System (FNS) Version 1	Spring '11 or Spring '10*		AIM Modernization Program – Initial operating capabilities. Achieve full ICAO compliance in automation
Federal NOTAM System (FNS) Version 2+ (Full capability)	2011+		AIM Modernization Program – Full capability Federal NOTAM System (Digital Entry, Digital Distribution, Multiple Sites, Full briefing capabilities, CARF redesign)

*Dates on bottom reflect potential dates if FAA issues are resolved

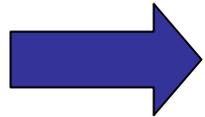


Single Federal NOTAM System (FNS)

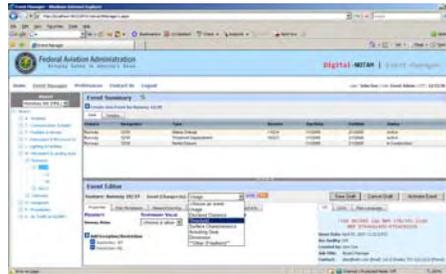
- **Begin federal system consolidation 2008**
 - Joint development to combine Civil and Military services into a single baseline
 - Extend system capabilities
 - ICAO Format and Series Standardization
 - Joint NAVCANADA/FAA ICAO working group
- **Joint DOD and FAA Goal**
 - Single Federal system with full ICAO implementation by Late 2009- Early 2010
- **Next Steps Based on a International Aeronautical Data Model**
 - Digital Capture and Distribution



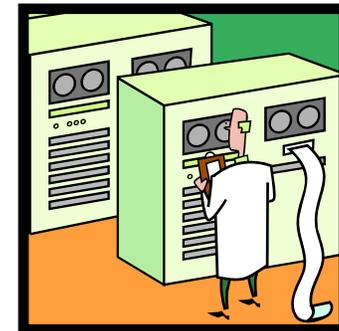
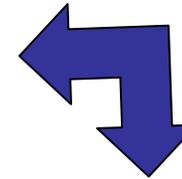
Demonstrations



**Airport NOTAM
Display**



NOTAM Web Entry



System to System

Digital NOTAM Capture Demo

Federal Aviation Administration
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Digital-NOTAM | Event-Manager

Home **Event Manager** Preferences Contact Us Logout user: John Doe | role: Event Admin | UTC: 12:33:30

Event Summary

+ Create new Event for Runway 12/30

Feature	Designator	Type	Number	StartDate	EndDate	Status
Runway	12/30	Status Change	11/234	1/1/2008	2/1/2008	Active
Runway	12/30	Threshold Displacement	10/223	1/1/2008	2/1/2008	Active
Runway	12/30	Partial Closure		1/1/2008	2/1/2008	In Construction

Event Editor

Feature: Runway 19/27 Event (Changes to): Usage

Properties

PROPERTY **TEMPORARY VALUE**

Runway Status

+ Add Exception/Restriction

- Restriction: JET
- Restriction: MIL

! IAD XX/XXX IAD RWY 17R/35L CLSD
WFF 0704061400-0704062200

Issue Date: April 05, 2007 11:23 (UTC)
Acc facility: IAD
Created by: John Doe
Job Title: Airport Manager
Contact: jdoe@hello.com (Email) 122.8 (Radio) 703-222-2222 (Phone)



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

File Edit View Favorites Tools Help

US Digital NOTAM System

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Digital - AIM | NOTAM - Manager

Home [NOTAM Manager](#) [Preferences](#) [Contact Us](#) [Logout](#) user: Donald Smith | role: Author October 20 2008 MON 19:21 UTC

NOTAM Explorer

Airports

ORD-Chicago O'Hare Intl

- Home (1 / 3)
 - Airport (1 / 3)
 - Airspace Management (0 / 0)
 - Navigation Services (0 / 0)
 - Vertical Obstacle (0 / 0)

Obstacles

NOTAM Summary - Airport - All [4 records]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active
Runway	04L	Threshold Displacement	-	-	-	Draft
Runway	14L	Declared Distance	-	09/23/2008 15:03	09/30/2008 03:05	Draft
Airspace	-	Free Form	-	-	-	Draft

Done

start status: ... 10 Micr... cfskyMe... 2 Inter... Windows... 3 Firefox Volume ... Microsof... Internet 100%



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

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NOTAM Explorer

Airports

ORD-Chicago O'Hare Intl

- ⊕ C-Communication and Radar (0 / 0)
- ⊕ F-Facilities and Services (0 / 0)
- ⊕ I-Instrument and Microwave (0 / 0)
- ⊕ L-Lighting Facilities (0 / 0)
- ⊖ M-Movement and Landing Area (1 / 2)
 - ⊖ Apron (0 / 0)
 - ⊖ Runway (1 / 2)
 - ⊕ 04L/22R (1 / 1)
 - ⊖ 04R/22L (0 / 0)
 - ⊖ 09R/27L (0 / 0)
 - ⊖ 10/28 (0 / 0)
 - ⊖ 14L/32R (0 / 1)
 - ⊖ 14R/32L (0 / 0)
 - ⊖ H1 (0 / 0)
 - ⊖ Taxiway (0 / 0)
 - ⊕ N-Navigation (0 / 0)

Obstacles

NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

Done (11) Microsoft Office Outlook Internet 100%

start status: Disconnected ... 11 Microsoft Office ... 2 Internet Explorer Google - Mozilla Firefox Microsoft PowerPoint ... 3:27 PM



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

File Edit View Favorites Tools Help

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user: Donald Smith | role: Author October 20 2008 MON 19:29 UTC

NOTAM Explorer

Airports

ORD-Chicago O'Hare Intl

- C-Communication and Radar (0 / 0)
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 - 09R/27L (0 / 0)
 - 10/28 (0 / 0)
 - 14L/32R (0 / 1)
 - 14R/32L (0 / 0)
 - H1 (0 / 0)
 - Taxiway (0 / 0)
 - N-Navigation (0 / 0)

Obstacles

NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

NOTAM Editor 04L/22R

NOTAM Template: --Select Template--

Preview Discard Save Validate Activate

Properties Schedule Prior Permission Reason/Warning Notes Contact Info US-FAA ICAO Plain Language

Please select a NOTAM scenario from the drop-down above. If you do not find a suitable scenario, then use the "Free Form" option

Done

Internet 100%

start Microsoft Office US Digital NOTAM Sys... WebMenu - Windows ... Microsoft PowerPoint ... 3:29 PM



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

File Edit View Favorites Tools Help

US Digital NOTAM System

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NOTAM Explorer

Airports

ORD-Chicago O'Hare Intl

- ⊕ C-Communication and Radar (0 / 0)
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 - ⊖ Apron (0 / 0)
 - ⊖ Runway (1 / 2)
 - ⊕ 04L/22R (1 / 1)
 - ⊖ 04R/22L (0 / 0)
 - ⊖ 09R/27L (0 / 0)
 - ⊖ 10/28 (0 / 0)
 - ⊖ 14L/32R (0 / 1)
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NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

NOTAM Editor 04L/22R

NOTAM Template: --Select Template--

Preview Discard Save Validate Activate

Properties Schema Closure Reason/Warning Notes Contact Info US-FAA ICAO Plain Language

Please select a NOTAM scenario from the drop-down above. If you do not find a suitable scenario, then use the "Free Form" option

Done

Internet 100%

start 11 Microsoft Office ... US Digital NOTAM Sys... WebMenu - Windows ... Microsoft PowerPoint ... 3:30 PM



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

File Edit View Favorites Tools Help

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NOTAM Explorer

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ORD-Chicago O'Hare Intl

- C-Communication and Radar (0 / 0)
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 - 04R/22L (0 / 0)
 - 09R/27L (0 / 0)
 - 10/28 (0 / 0)
 - 14L/32R (0 / 1)
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 - N-Navigation (0 / 0)

Obstacles

NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

NOTAM Editor 04L/22R

NOTAM Template: Closure

Preview Discard Save Validate Activate

Properties Schedule Prior Permission Reason/Warning Notes Contact Info US-FAA ICAO Plain Language

Property	Temporary Value	Permanent Value
Runway Status:	--Select Value-- --Select Value-- Closed Open	OPEN

!ORD XXXXX ORD RWY 04L/22R

Done

Internet 100%

start Microsoft Office ... US Digital NOTAM Sys... WebMenu - Windows ... Microsoft PowerPoint ... 3:30 PM



US Digital NOTAM System - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/dnotam/EventManager.html

File Edit View Favorites Tools Help

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NOTAM Explorer

Airports

- ORD-Chicago O'Hare Intl
- [-] C-Communication and Radar (0 / 0)
- [-] F-Facilities and Services (0 / 0)
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 - [-] Runway (1 / 2)
 - 04L/22R (1 / 1)
 - 04R/22L (0 / 0)
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 - 10/28 (0 / 0)
 - 14L/32R (0 / 1)
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Obstacles

NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

Oct

S	M	T	W	T	F	S
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2008

End Date

End in 15 days

Schedule

Preview Discard Save Validate Activate

Prior Permission Reason/Warning Notes Contact Info US-FAA ICAO Plain Language

ORD/XXXXX ORD RWY 04L/22R CLSD



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NOTAM Explorer

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ORD-Chicago O'Hare Intl

- [-] C-Communication and Radar (0 / 0)
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 - [-] 10/28 (0 / 0)
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 - [-] Taxiway (0 / 0)
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Obstacles

NOTAM Summary - Runway - 04L/22R - All [1 record]

Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

-Choose a Warning-

- Parked Aircraft
- Work In Progress
- Grass Cutting
- Rubber Removal
- Animal
- Paving
- Equipment
- Painting
- Calibration
- Resurfacing
- Inspection
- Bird
- Choose a Warning-**

Prior Permission Reason/Warning Notes Contact Info

US-FAA ICAO Plain Language

NOTAM (optional)

ORD XX/XXX ORD RWY 04L/22R CLSD WEF 0810201932 -



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user: Donald Smith | role: Author October 20 2008 MON 19:33 UTC

NOTAM Explorer

Airports

- ORD-Chicago O'Hare Intl
- C-Communication and Radar (0 / 0)
- F-Facilities and Services (0 / 0)
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- L-Lighting Facilities (0 / 0)
- M-Movement and Landing Area (1 / 2)
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 - 10/28 (0 / 0)
 - 14L/32R (0 / 1)
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Obstacles

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Keyword	Designator	Criteria	Number	Start Date	End Date	Status
Runway	04L/22R	Closure	TEST_0001/08	09/11/2008 18:49	10/31/2008 02:05	Active

Windows Internet Explorer

Do you want to Activate the NOTAM?

OK Cancel

NOTAM Editor 04L/22R

NOTAM Template

Preview Discard Save Validate Activate

Properties Schedule Prior Permission Reason/Warning Notes Contact Info US-FAA ICAO Plain Language

Accountable Facility: ORD

Created By: Donald Smith

Job Title: Author

Fax:

Phone: 202-863-7427

Radio:

!ORD XX/XX ORD RWY 04L/22R CLSD WEF 0810201932 - 0810220201

Done

Internet 100%

start 11 Microsoft Office ... US Digital NOTAM Sys... Microsoft PowerPoint ... 3:34 PM



Active NOTAMs in facilitie(s): ORD(1) - Windows Internet Explorer

http://notamdemo.aim.nas.faa.gov/notamSearch/NotamSearch.html

File Edit View Favorites Tools Help

Active NOTAMs in facilitie(s): ORD(1)

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digital - AIM | NOTAM - Search

Facilities: (separated by commas) Lookup facilities

UTC: MON October 20 2008 20:26

Active NOTAMs in facilitie(s): ORD(1)

Facility	NOTAM Number	Feature Type	Issue Date	Start Date	End Date	NOTAM Condition
ORD	TEST_0001/08	Runway	09/11/2008 14:52	09/11/2008 18:49	10/31/2008 02:05	RWY 04L/22R CLSD WEF 0809111849 - 0810310205

Done (9) Microsoft Office Outlook Internet 100%

start Microsoft Of... Microsoft Power... Windows Task ... 2 Firefox status: Disconn... Active NOTAMs ... 4:26 PM



System to System NOTAM Entry

Sample TOWER Lights OUT NOTAM Submission using web service

Webservice URL:

Obstacle:

Tower ASN: Status:

Start Date: Start Time:

End Date: End Time:

All Date and Time Fields should be in UTC

```
calling webservice...
ErrCode = 0
NOTAMID = TEST_0069/08

TranslationUS
IORD TEST_0069/08 ORD OBST TOWER 892 (192 AGL) 6.47 NE LGTS OTS WEF 0809221200 - 0809251400

TranslationCAD
TEST_0069/08 NOTAMN c-b04 c-b1Q[Inbap;c/b]KORD/QOLAS/VMM JE /000/999/4158N08754W005 c-b04 c-b1A[Inbap;c/b]KORD
(IORD) c-b04 c-b1Q[Inbap;c/b]0809221200 c-b04 c-b1C[Inbap;c/b]0809251400 c-b04 c-b1E[Inbap;c/b]TOWER PSN 4158N08754W
OBSTACLE LGT ON TOWER U/S TOWER 192 FT AGL - 892 FT AMSL c-b04 c-b1F[Inbap;c/b]G[Inbap;c/b]

TranslationModem
```

- “Lights out” NOTAM Capture
 - 42% of all NOTAMs, 75% of D NOTAMs
- NavAid Capture
- Procedures Capture
- Airports Capture
 - Electronic System Interface Capture for large airports (PASSUR)
 - Web Capture as backup and other airports

North American NOTAMs

- **North American Agreement**
 - US and Canada to announce joint ICAO-compliant policy for NOTAMs
 - Use common ICAO-compliant policy for series, numbering, and formatting
 - Actual deployment dates will be Spring 2010
 - Will include NOTAMs and Field Conditions (SNOWTAMs)
 - NavCanada Concept of [Airport] NOTAM Zero = Airport Field Condition
- **Status**
 - Meeting held in Aug 2008 with Transport Canada, NavCanada, and FAA to work out planning details
 - Joint Formatting and Policy team created to complete details based on work the FAA started in Jan 2008
 - Work expected to be completed by Nov 1, 2008
- **Announcements**
 - **NavCanada Industry Day on Nov 19, 2008**
 - **Technical Details at FAA Industry Day on November 18, 2008**



Thank You !

For more information

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202-493-1407

Nfdc.faa.gov/aimnews

