

AIR TRANSPORTATION INFORMATION EXCHANGE CONFERENCE

INTEGRATED AI

Minh Dao

ATISpace Inc

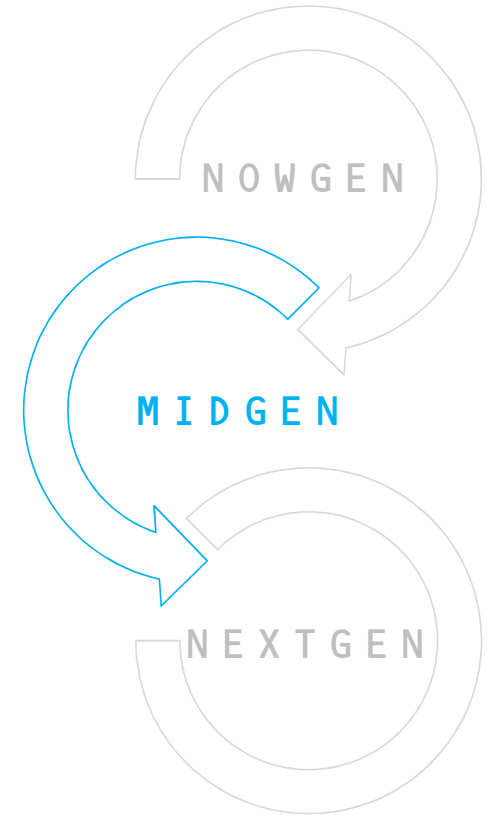
August 26 2014





AI DATA INTEGRATION

AIXM SAA & SUA Schedules

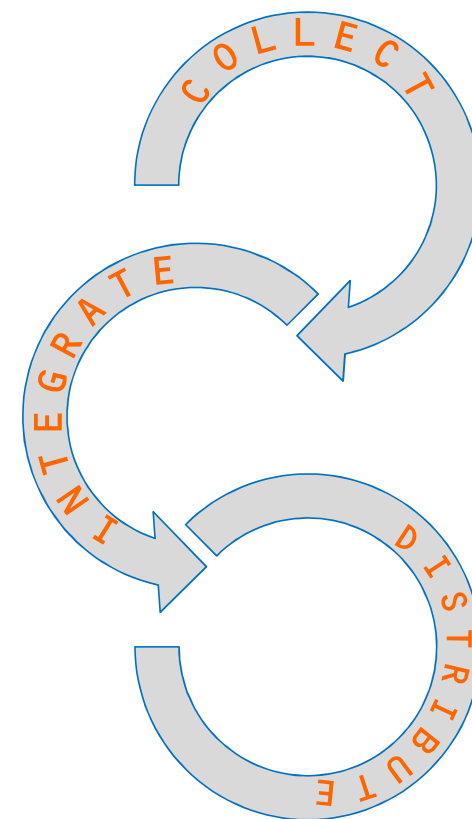




WHAT WE DO

AI Integrator...
Our Specialties...

- ✓ EA & System Engineering
- ✓ Rapid AI Development & Prototype
- ✓ Flight Planning – DOMESTIC & ICAO
- ✓ Route Of Flight Briefing – 7110.10
- ✓ Digital & Graphical NOTAMs
- ✓ Aviation & Audio Weather
- ✓ Flight Services & MBO Support
- ✓ NOAA, WMSCR, NWS & AFWA Integration
- ✓ SOA, CLOUD & OGC Services





CONFIGURATION OVER CODING

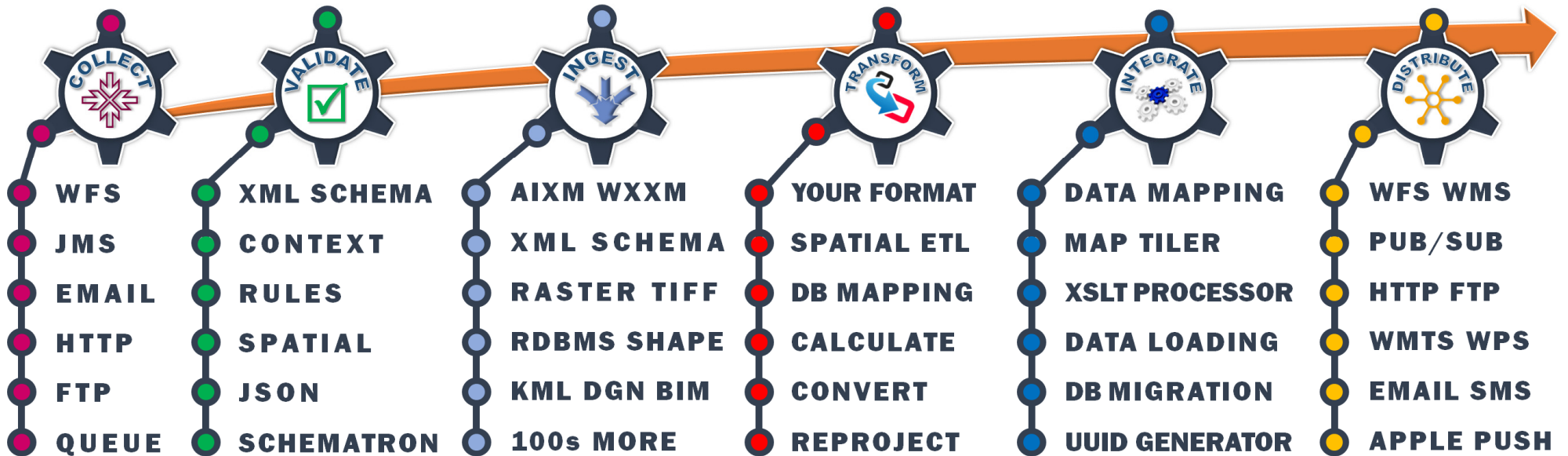


FULL AUTOMATION | MINIMAL CODING



YOUR DATA → YOUR WAY

*From collection to distribution...
Configure → Deploy*





DIGITAL NOTAMS & MAG VARS

RESTful Services → Cloud Enabled → Minimal Coding!

75 Lines of Code

Digital NOTAM from NDS fused with NOAA Magnetic Declination and distributed as GeoJSON RESTful Web Service and displayed in OpenLayers.

AIXM 5.1 Digital NOTAM

Location	KABE
Magnetic Declination	-12.21432
NOTAM Number	04/046
Condition	!ABE 04/046 ABE TWY B BTN TWY B6 AND TWY B7 CLSD LGTD AND BARRICADED 1404291410-1405302200
Effective	20140429141000
Expiration	20140530220000



SHARED SITUATIONAL AWARENESS

PILOTSANDWEATHER.COM



SITUATIONAL AWARENESS = SAFER FLIGHT
KNOW BEFORE YOU GO



INTEGRATED BRIEFING

- ✓ Route of Flight Briefing
- ✓ Pilot's Bill of Rights NOTAMs
- ✓ Route Overlay on everything
- ✓ NAV Charts & Publications
- ✓ NAV Log & Weather Cameras
- ✓ SA TAF FA UA FB WA WST WW
- ✓ Weather Charts
- ✓ Balloon Briefing w/ RUC winds
- ✓ Moving Charts w/ TFRs
- ✓ SUA, TFR, WA WST
- ✓ Google Earth Briefing
- ✓ Flight Simulation/Tour

The screenshot shows the Flight Explorer website interface. At the top, it displays the aircraft ID TTT1234, departure from RIC, and destination LGA. Below this, there's a section for 'ENROUTE WEATHER/NOTAM BRIEFING & SEARCH' with a table showing flight details like speed (340) and altitude (240). A 'REQUEST GENERATED' message indicates the briefing was completed on May 31, 2014. The interface includes various tool buttons such as 'Flight Simulation!', 'NOTAMs & W/ NOTAMs', 'IFR Charts', 'Severe Weather', 'TFRs', 'Weather Charts (demo)', 'WX Charts', 'Weather Camera', and 'Nav Info'. A large 'NOTAM' section is visible, listing various notices to airmen with icons for critical, field condition, and other types. A 'NOTAM FILTERS' panel on the right allows users to filter the displayed NOTAMs. A semi-transparent blue box with white text is overlaid on the bottom of the screenshot, reading 'Integrated Domestic and ICAO Flight Planning and Briefing'.



DEFENSE AI PORTAL (DAIP)

*First System to use NDS Digital NOTAM over SWIM**

The screenshot shows the DAIP search interface. At the top left is the U.S. Department of Defense logo and the text "U.S. DEPARTMENT OF DEFENSE AERONAUTICAL INFORMATION PORTAL". A navigation bar contains "Home", "Defense News", and "About DAIP". On the left side, there are three main sections: "Login" with fields for "Email" and "Password" and a "Login" button; "System Messages"; and "Resources" with links for "European Birdtams", "Graphical TFRs", and "North Atlantic Track". The main content area is titled "Search NOTAMs by Route of Flight" and contains two sections: "FLIGHT INFORMATION" and "FILTERS".

FLIGHT INFORMATION	
Departure *	RIC
Destination *	JFK
Alternates	LGA
Route	V157 GARED V229 PANZE

FILTERS	
Radius	10 Nautical Miles
Runway Length (Feet)	3500
Runway Width (Feet)	120
Airport Type	All

At the bottom of the search area are two buttons: "View NOTAMs" and "Clear".

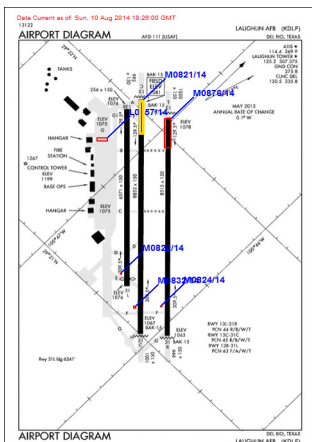
- ✓ Route of Flight Briefing
- ✓ Pilot's Bill of Rights NOTAMs
- ✓ Graphical NOTAMs
- ✓ TAFs and METARs
- ✓ BIRDTAMs
- ✓ Automated NASR & DAFIF Updates

2009

Which implementation would you choose?

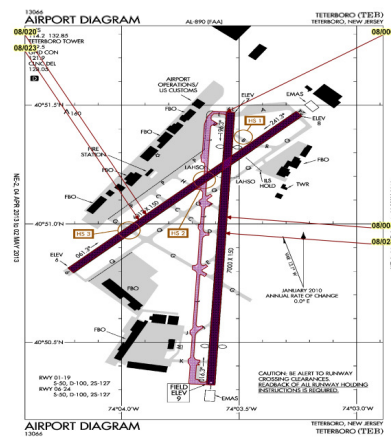
2014

A



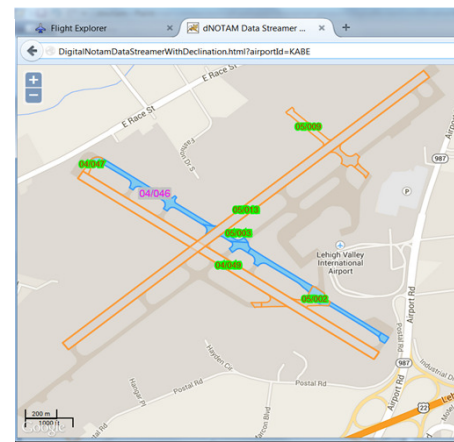
Legacy NOTAMs
on Airport Diagram

B



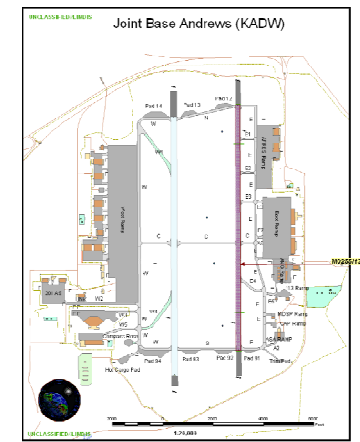
Digital NOTAMs
on Airport Diagram

C



Digital NOTAMs
on Moving Map

D



Digital NOTAMs
on GeoTIFF



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