Supporting FAA's National Flight Data Center

AERONAVDATA performs data integration, quality control, and population of airport data in AIMdb, which provides a common geospatial representation of selected airports.
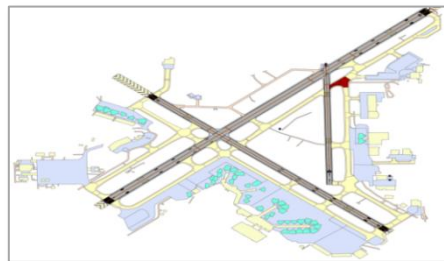
AERONAVDATA developed a process and system to support the collection, management, and exchange of the data elements comprising the AIMdb and integrates, validates, and verifies airport data to populate and maintain within the AIMdb. All data management and processes adhere to DO-272/ED-99 standards and our data delivery adheres to AIXM 5.1.

Our Aeronautical Information Analyst team, comprised of experienced pilots and air traffic controllers, conducts a thorough review of all sources and performs an analysis of data and resolves any source differences. They create an output transmittal package that contains data to be updated in AIMdb and, according to DO-200A principles, track the changes that are made to data back to the original source. To satisfy this requirement, the **AERONAVDATA** team tracks all incoming source including AIXM data, CAD files, surveys, and all related communications.

The **AERONAVDATA** team routinely coordinates with FNS, ATO-Safety and NFDC to create a graphic that represents any construction done on airport, based on NOTAM. If the team receives an ad hoc request from the NOTAM office for output of a specific airport in support of Construction Activity Notices, they provide the most current data as requested. If current data is not available, the team follows the prescribed Quality Assurance Process to generate an approved output and forwards it as requested. Additionally, they create a graphic output of the construction area at the airport and provide it to NFDC for their final approval.

AERONAVDATA is actively involved in Airport Mapping Standards Development and has done much internal Research and Development work to build future capabilities into the database table structure, such as many future temporality aspects of the airport data elements.

KBDL, Windsor Locks, CT

KMKE, Milwaukee, WI

Feature and Image Analysis

Highlights

∗ XML validated against AIXM 5.1 schema
∗ Ensures full compliance with DO-272 Standards
∗ Delivers higher fidelity features currently portrayed on all FAA Diagrams

Applications

→ Aircraft onboard moving map displays
  ✓ Situational awareness
  ✓ Display taxi assignment route, position of other aircraft/vehicles
→ Advanced Surface Movement Guidance Systems
  ✓ Automate runway assignment and taxi route
  ✓ Data communication
  ✓ Conflict detection and resolution
  ✓ Reduce traffic and radio communication congestion or confusion
→ Digital charts/Electronic Flight Bag
  ✓ Reduce clutter, weight, workload
  ✓ Immediate electronic transfer
→ D-NOTAM delivery
→ Synthetic vision systems
→ Airport or airline resource management
→ Training, simulations, research and development
→ Airport planning and construction
→ Emergency response
→ Security management

AERONAVDATA

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Available Today

- ✓ AIXM output that conforms to AIXM / AMDB DO-272/ED-99 encoding guidelines.

- ✓ Software conversion tools for database output to AIXM 5.1 and Shapefile formats.

- ✓ Customized imports: FAA Airports GIS 18B Surveys, NASR, NGA SAC, AIXM, CAD, and DGN digital formats.

- ✓ AIXM 5.1 and DO-272/ED-99-compliant airport features providing support to FAA NOTAM Office:
  - → Runway Element
  - → Runway Intersection
  - → Runway Displaced Area
  - → Taxiway Element
  - → Apron Element

- ✓ Output of selected features and supplemental data customized to fit user needs.

- ✓ Automated geometry and data integrity verification with defined accuracy and resolution.

Additional features captured, per customer needs / requests:

1. Aerodrome Reference Point
2. Apron Element
3. Arresting Gear Location
4. Blastpad
5. Construction Area
6. Deicing Area
7. Final Approach And Takeoff Area
8. Frequency Area
9. Helipad Threshold
10. Hotspot
11. Land And Hold Short Operations Location
12. Painted Centerline
13. Parking Stand Area
14. Parking Stand Location
15. Runway Displaced Area
16. Runway Element
17. Runway Exit Line
18. Runway Intersection
19. Runway Marking
20. Runway Shoulder
21. Runway Threshold
22. Service Road
23. Stand Guidance Line
24. Stopway
25. Taxiway Element
26. Taxiway Guidance Line
27. Taxiway Holding Position
28. Taxiway Intersection Marking
29. Taxiway Shoulder
30. Vertical Polygonal Structure

AERONAVDATA™

Where information takes flight

Contact:

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