



AERONAVDATA™

Where information takes flight

Using DAFIF® in a COTS FMS

AeroNavData's D2A Converter

The DAFIF® to ARINC (D2A) Converter Program is AeroNavData's proprietary software application that quickly converts a worldwide DAFIF® file into a standard ARINC 424 navigation file. D2A Converter Program can be a very cost effective alternative for users either required or desiring to use DAFIF® as their aeronautical data source. D2A Converter Program gives military customers the ability to use DAFIF® without costly modification to commercial off-the-shelf (COTS) Flight Management Systems (FMS).

The D2A Converter Program (D2A), developed by AeroNavData in 2006, will convert aeronautical navigation files from the Digital Aeronautical Flight Information File (DAFIF®) proprietary tab-delimited format developed by the National Geospatial-Intelligence Agency (NGA) to the industry standard ARINC 424 format. The ARINC format is compatible with most avionics manufacturer's flight management systems. While the D2A Converter Program is mature with proven stability and efficacy, it remains flexible and adaptable to changes in DAFIF® and ARINC.

One of the most beneficial advantages of the D2A Converter Program is its ability to be customized for the user's exact requirements. Most data users need a navigation file conforming exclusively to their proprietary Interface Control Document (ICD) to meet the requirements of a particular avionics manufacturer or flight management system.



ADDITIONAL SERVICES

- Enhance the D2A Converter Program to match Customer's Interface Control Document.
- AeroNavData may assist the customer in inserting the D2A Converter Program tool into the User's LOA compatible process.
- Provide a D2A Converter Program upgrade or modification based on new user requirements.

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D2A BASIC

The D2A Converter Program will accept as input a DAFIF®T (Tab-delimited) file residing on a Digital Versatile Disk (DVD) or downloaded from the National Geospatial-Intelligence Agency's (NGA) official DAFIF® website. The tool will convert the DAFIF®T data to ARINC 424 coded instrument flight records. Currently, the tool will convert the DAFIF®T to ARINC 424-Supplement 15, ARINC 424-Supplement 17 and ARINC 424-Supplement 18. The output will be ARINC 424 132 column formatted text files.

The D2A Converter Program will convert the following ARINC record types:

- Grid MORA (AS)
- VHF NAVAID (D)
- NDB NAVAID (DB)
- Waypoint (EA)
- Airways (ER)
- Holding Pattern (EP)
- Airports and Heliports (PA, HA)
- Terminal Waypoints (PC, HC)
- Airport and Heliport Standard Instrument Departures, SID (PD, HD)
- Airport and Heliport Standard Terminal Arrival Routes, STAR (PE, HE)
- Airport and Heliport Standard Instrument Approach Procedures, SIAP (PF, HF)
- Runways (PG)
- Localizer/Glide Slope (PI)
- Terminal NDB NAVAID (PN)Path Point Records (PP)
- Airport and Heliport MSA (PS, HS)Controlled Airspace (UC)
- FIR/UIR (UF)
- Restrictive Airspace (UR)

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AeroNavData's DAFIF to ARINC (D2A) Converter

Features and Benefits

Feature	Benefit
Installs on common commercial hardware and Windows Operating Systems	No special hardware or software configuration is required to support
Tool can derive data from one or more existing data elements	Customer is able to have a more complete dataset
Customizable – Tool can be customized to suit specific customer / aircraft platform requirements	Tailored dataset provides support for broad range of aircraft
Creates a 'plain English' comprehensive conversion error log	Identifies errors and their relationship to other data elements, which allows them to be isolated for correction
Automated straightforward conversion process requiring no manual intervention	Ease of operation with nominal training requirement
Selectable ARINC output version	Formats data to specific ARINC supplement to satisfy various aircraft FMS needs
Records can be filtered by ARINC region, ICAO region, cycle date, etc.	Allows dataset to be reduced to manageable size that only reflects desired area
Simple repeatable process that normally completes conversion within 15 minutes	Saves time for the customer every AIRAC cycle
Generates single terminal procedure packet files containing all records necessary to support a particular procedure at a specified airport	Allows individual procedure review in user-defined graphics programs

