



NDB Explorer enables navigation database interaction and supports efficient procedure validation.

Aircraft Loadable Media

The Aircraft Loadable Media function creates loadable media from a GE Aviation-packed Navigation Database (NDB) onto diskettes, the hard drive, or any Windows-compatible storage device for loading into our Flight Management Computer System. These media sets are relied on by commercial and military customers all over the world every 28 days. NDB Explorer can create ARINC 615 media to be loaded over ARINC 429 or ARINC 665 media that can then be loaded over Ethernet via an ARINC 615A data loader. An ARINC 615 media set can be split into diskette-sized directories on a Windows storage device. This eliminates the need for centralized media creation specialists to write to physical diskettes before deploying to the fleet.

Features:

- ARINC 615 to hard drive or diskette(s)
- Split an ARINC 615 file for diskettes on hard drive
- ARINC 615A/665 support

Browse, Search, Explore

The Browse and Search Functions enable an interactive view into the content of the navigation database. The browse function displays an expandable list of all navigation data records and allows you to identify all references to other records. The search function allows specific records to be quickly found and displayed by typing a few letters of the associated record's identifier. Selected data is displayed in its own tab, and any related records are available to expand and explore.

Features:

- Browse entire contents of an NDB
- Search for specific content in an NDB
- Expand and Explore references to other records

Export

The Export function allows the customer to export the contents of the NDB to a SQLite relational database intended for machine-to-machine communication. The export file can be used by custom tools and applications for customer-specific needs. In addition to the relational data tables, the export file includes database views of procedures to support human readability.

Features:

- Flexible SQLite format supports custom tools and applications
- Accurate representation of the NDB in an industry-standard format
- Human-friendly procedure views

Sequence	Path Terminator	Fix	Flyover	IAF	FAF	MAP	Step Down Fix	FEP	Course	Turn Direc
DEWHY Transition										
10	IF	DEWHY		✓						
20	CF	CTEEE							95.0° M	
YINNZ Transition										
10	IF	YINNZ		✓						
20	TF	DEWHY								
30	CF	CTEEE							95.0° M	
Final										
10	IF	CTEEE								
20	CF	ZMANN			✓				95.0° M	
30	CF	RW10	✓			✓			95.0° M	
Missed										
40	CA								95.0° M	
50	CF	SCARR							185.0° M	Right
60	HM	SCARR							5.0° M	Right

Approach	
Identification	
Type	Approach
Effectivity	Both Cycles
Airport	KATL
Identifier	L10
Source Identifier	L10
Tailored	False
Compatible OFPs	A1A.0, A1A.1...
Misc	
Associated Facility	IOMO
GSI Altitude	Not Provided
Only flown with FAS D...	Not Provided
Path Point	Not Provided
RNP-AR	False
Runway	RW10
Transition Altitude	18000 ft

Compare

The compare function identifies changes and differences between navigation databases. NDB Explorer allows the comparison of Navigation Databases, loadable media, SQLite export files, and Gold Standard Databases. It provides overall change statistics and displays all differences with an intuitive side-by-side comparison. The results can be filtered and refined to highlight key differences in tailored data, RNP-AR procedures, and all other record types.

Features:

- Quickly identify data that has been added, removed, and changed.
- Intuitive side-by-side comparison
- Filters on tailored data and RNP-AR procedures

Navaid		Navaid	
Identification			
Type	Navaid	Type	Navaid
Effectivity	Old Cycle	Effectivity	New Cycle
Identifier	BRY	Identifier	BRY
Long Name	<i>Not Provided</i>	Long Name	<i>Not Provided</i>
Country Code	<i>Not Provided</i>	Country Code	<i>Not Provided</i>
Compatible OFPs	A1A.0, A1A.1...	Compatible OFPs	A1A.0, A1A.1...
Location			
DME Latitude	N 40° 15' 45.10"	DME Latitude	N 40° 15' 45.10"
DME Longitude	E 29° 35' 38.50"	DME Longitude	E 29° 35' 38.50"
VOR Latitude	N 40° 15' 45.10"	VOR Latitude	N 40° 15' 45.10"
VOR Longitude	E 29° 35' 38.50"	VOR Longitude	E 29° 35' 38.50"
Misc			
Associated Facility	<i>Not Provided</i>	Associated Facility	<i>Not Provided</i>
Elevation	770 ft	Elevation	750 ft
Figure Of Merit	High Altitude	Figure Of Merit	High Altitude
Frequency	115.30 MHz	Frequency	115.30 MHz

Lateral Viewer

The Lateral Viewer function displays a top-down predicted view of all procedures, airways, and company routes in an NDB. The lateral path is created using GE FMS predictions and provides valuable insight into the predicted path flown by the flight crew.

Features:

- Top-down lateral view of any procedure
- Real FMS path predictions
- Excellent situational awareness



Gold Standard Database

The Gold Standard Database function establishes a reference database containing previously validated data. Once a Gold Standard Database has been created the compare function enables cyclic monitoring of any navigation database record, such as RNP-AR procedures, company routes, and RNAV overlays of conventional approaches. NDB Explorer records a detailed history of user-provided comments for each record in the Gold Standard Database for change management and auditing purposes.

Features:

- Simple monitoring of navigation data
- Enables efficient procedure validation
- Maintains a detailed history of every record