

AIRWAY DATA  
COMMA-SEPARATED VALUES (CSV) RECORD LAYOUT  
(AWY-FILES)

INFORMATION EFFECTIVE DATE: 05/16/2024

RECORD FORMAT: COMMA DELIMITED WITH ALL TEXT FIELDS ENCLOSED WITHIN DOUBLE-QUOTE CHARACTERS

LOGICAL RECORD INTERVAL: ALL RECORDS HAVE THE SAME NUMBER OF FIELDS, IN THE SAME ORDER AND RECORD ENDS AT A LINE TERMINATOR

DATA HEADERS: FIRST ROW CONTAINS FIELD NAMES

PFR FILES: AWY\_BASE, AWY\_ALT, AWY\_SEG, AWY\_SEG\_ALT

COMMON TO ALL FIX FILES: EFF\_DATE, REGULATORY, AWY\_LOCATION, AWY\_ID

GENERAL INFORMATION:

1. The AWY\_\*.csv files were designed to replace the legacy ATS.txt and AWY.txt Subscriber Files.
2. AWY\_\*.csv files contain the applicable data found in the legacy ATS.txt and AWY.txt Subscriber Files. Data, while comparable to the legacy Subscriber files, is in some cases organized and presented in a different way.
3. Please enter any feedback in the Aeronautical Information Portal.  
<https://nfdc.faa.gov/nfdcApps/controllers/PublicSecurity/nfdcLogin>

FIELD DESCRIPTION

*COMMON TO ALL*

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EFF\_DATE – The 28 Day NASR Subscription Effective Date in format ‘YYYY/MM/DD’.

REGULATORY – Identifies Airways published under 14 CFR (Code of Federal Regulation) Part-71 and Part-95 – Y/N.

AWY\_LOCATION – Airway Type which identifies the General Location of the Airway.

ENCODE	DECODE
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A	ALASKA AIRWAY
H	HAWAII AIRWAY
C	U.S. CONTIGUOUS AIRWAY

AWY\_ID – Airway Identifier.

*AWY\_BASE ordered by and unique key: AWY\_ID, AWY\_LOCATION*

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AWY\_DESIGNATION – Airway Designation.

ENCODE	DECODE
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A	AMBER COLORED AIRWAY
AT	ATLANTIC AIRWAY
B	BLUE COLORED AIRWAY
BF	BAHAMA AIRWAY
G	GREEN COLORED AIRWAY
J	JET AIRWAY
PA	PACIFIC AIRWAY
PR	PUERTO RICO AIRWAY
R	RED COLORED AIRWAY
RN	GPS RNAV AIRWAY
V	VOR AIRWAY

UPDATE\_DATE – The Last Date for which the AIRWAY Data amended.

REMARK – Remark Text (Free Form Text that further describes a specific Information Item.)

AIRWAY\_STRING – List of FIX and NAVAID that make up the AIRWAY in order adapted.

*AWY\_SEG ordered by AWY\_ID, AWY\_LOCATION, POINT\_SEQ; unique key: AWY\_ID, AWY\_LOCATION, SEG\_VALUE*

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POINT\_SEQ – Sequencing number in multiples of ten. Points are in order adapted for given Airway.

SEG\_VALUE – NAVAID Facility Identifier, FIX Name or Border crossing. A Unique system generated number is added to each Border crossing Segment Value. This number while unique is not necessarily sequential.

SEG\_TYPE – NAVAID Facility or FIX Type.

TYPE	Description
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CN	COMPUTER NAVIGATION FIX
MR	MILITARY REPORTING POINT
MW	MILITARY WAYPOINT
NRS	NRS WAYPOINT

RADAR	RADAR
RP	REPORTING POINT
VFR	VFR WAYPOINT
WP	WAYPOINT
CONSOLAN	A Low Frequency, Long-Distance NAVAID Used Principally for Transoceanic navigation.
DME	Distance Measuring Equipment only.
FAN MARKER	There are 3 types of EN ROUTE Market Beacons. FAN MARKER, Low powered FAN MARKERS and Z MARKERS. A FAN MARKER Is used to provide a positive identification of positions at Definite points along the airways.
MARINE NDB	A NON Directional Beacon used primarily for Marine (surface) Navigation.
MARINE NDB/DME	A NON Directional Beacon with associated Distance measuring Equipment; used primarily for Marine (surface) Navigation.
NDB	A NON Directional Beacon
NDB/DME	Non Directional Beacon with associated Distance Measuring Equipment.
TACAN	A Tactical Air Navigation System providing Azimuth and Slant Range Distance.
UHF/NDB	Ultra High Frequency/NON Directional Beacon.
VOR	A VHF OMNI-Directional Range providing Azimuth only.
VORTAC	A Facility consisting of two components, VOR and TACAN, Which provides three individual services: VOR AZIMITH, TACAN AZIMUTH and TACAN Distance (DME) at one site.
VOR/DME	VHF OMNI-DIRECTIONAL Range with associated Distance Measuring equipment.
VOT	A FAA VOR Test Facility.

NAV\_NAME – NAVAID Facility Name

NAV\_CITY – The NAVIAD Facility City which is part of the key for all NAV\_\*.csv files.

ICAO\_REGION\_CODE – This is the two letter ICAO Region Code for FIX Point Types only.

STATE\_CODE – Associated State Post Office Code standard two letter abbreviation for US States and Territories.

COUNTRY\_CODE – Country Post Office Code

NEXT\_SEG – The To Point that directly follows the current From Point on an individual segment.

MAG\_COURSE – Segment Magnetic Course

OPP\_MAG\_COURSE – Segment Magnetic Course - Opposite Direction

MAG\_COURSE\_DIST – Distance to Next Point in Segment in Nautical Miles.

CHGOVR\_PT – NAVAID Changeover Point Facility Identifier

CHGOVR\_PT\_NAME – NAVAID Changeover Point Facility Name

CHGOVR\_PT\_DIST – This Field Contains The Distance In Nautical Miles Of The Changeover Point Between This NAVAID Facility And The Next NAVAID Facility When The Changeover Point Is More Than One Mile From Half-Way Point.

AWY\_SEG\_GAP\_FLAG – Airway Gap Flag Indicator for when Airway Discontinued – Y/N.

SIGNAL\_GAP\_FLAG – Gap in Signal Coverage Indicator for when Mea established With a Gap in Navigation Signal Coverage - Y/N.

DOGLEG – A Turn Point Not At A NAVAID – Y/N. Note: GPS RNAV Routes [Q, T, TK] will have Dogleg=Y at First Point, End Point, And All Turn Points in between.

REMARK – Remark Text (Free Form Text that further describes a specific Information Item.)

*AWY\_ALT ordered by AWY\_ID, AWY\_LOCATION, POINT\_SEQ; unique key: AWY\_ID, AWY\_LOCATION, MEA\_PT*

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POINT\_SEQ – POINT\_SEQ Number from the AWY\_SEG file.

MEA\_PT – NAVAID Facility Identifier, FIX Name or Border crossing associated with POINT\_SEQ. A Unique system generated number is added to each Border crossing Segment Value. This number while unique is not necessarily sequential.

MEA\_PT\_TYPE – NAVAID Facility or FIX Type of MEA\_PT. (see SEQ\_TYPE for list)

NAV\_NAME – NAVAID Facility Name

NAV\_CITY – The NAVIAD Facility City which is part of the key for all NAV\_\*.csv files.

ICAO\_REGION\_CODE – This is the two letter ICAO Region Code for FIX Point Types only.

STATE\_CODE – Associated State Post Office Code standard two-letter abbreviation for US States and Territories.

COUNTRY\_CODE – Country Post Office Code

NEXT\_MEA\_PT – The To MEA\_PT that directly follows the From MEA\_PT for an individual Altitude record.

MIN\_ENROUTE\_ALT – Point To Point Minimum Enroute Altitude (MEA)

MIN\_ENROUTE\_ALT\_DIR – Point To Point Minimum Enroute Direction (MEA)

MIN\_ENROUTE\_ALT\_OPPOSITE – Point To Point Minimum Enroute Altitude (MEA-Opposite Direction)

MIN\_ENROUTE\_ALT\_OPPOSITE\_DIR – Point To Point Minimum Enroute Direction (MEA-Opposite Direction)

GPS\_MIN\_ENROUTE\_ALT – Point To Point GNSS Minimum Enroute Altitude (Global Navigation Satellite System MEA)

GPS\_MIN\_ENROUTE\_ALT\_DIR – Point To Point GNSS Minimum Enroute Direction (Global Navigation Satellite System MEA)

GPS\_MIN\_ENROUTE\_ALT\_OPPOSITE – Point To Point GNSS Minimum Enroute Altitude (Global Navigation Satellite System MEA-Opposite Direction)

GPS\_MEA\_OPPOSITE\_DIR – Point To Point GNSS Minimum Enroute Direction (Global Navigation Satellite System MEA-Opposite Direction)

DD\_IRU\_MEA – Point To Point DME/DME/IRU Minimum Enroute Altitude (MEA)

DD\_IRU\_MEA\_DIR – Point To Point DME/DME/IRU Minimum Enroute Direction (MEA)

DD\_I\_MEA\_OPPOSITE – Point To Point DME/DME/IRU Minimum Enroute Altitude (MEA- Opposite Direction)

DD\_I\_MEA\_OPPOSITE\_DIR – Point To Point DME/DME/IRU Minimum Enroute Direction (MEA- Opposite Direction)

MIN\_OBSTN\_CLNC\_ALT – Point To Point Minimum Obstruction Clearance Altitude (MOCA)

MIN\_CROSS\_ALT – Minimum Crossing Altitude (MCA)

MIN\_CROSS\_ALT\_DIR – Minimum Crossing Direction (MCA)

MIN\_CROSS\_ALT\_NAV\_PT – Minimum Crossing Altitude (MCA) Point

MIN\_CROSS\_ALT\_OPPOSITE – Minimum Crossing Altitude (MCA- Opposite Direction)

MIN\_CROSS\_ALT\_OPPOSITE\_DIR – Minimum Crossing Direction (MCA- Opposite Direction)

MIN\_RECEP\_ALT – FIX Minimum Reception Altitude (MRA)

MAX\_AUTH\_ALT – Point To Point Maximum Authorized Altitude (MAA)

MEA\_GAP – Identifies whether a given MEA Segment is Unusable – “U”.

REQD\_NAV\_PERFORMANCE – Required Navigation Performance (RNP) value.

REMARK – Remark Text (Free Form Text that further describes a specific Information Item.)

*AWY\_SEG\_ALT ordered by AWY\_ID, AWY\_LOCATION, POINT\_SEQ; unique key: AWY\_ID, AWY\_LOCATION, FROM\_POINT*

#####

POINT\_SEQ – Sequencing number in multiples of ten. Points are in order adapted for given Airway.

FROM\_POINT – NAVAID Facility Identifier, FIX Name or Border crossing. A Unique system generated number is added to each Border crossing Segment Value. This number while unique is not necessarily sequential.

FROM\_PT\_TYPE – NAVAID Facility or FIX Type.

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ARTCC – Identifier of Low ARTCC Altitude Boundary That the FROM\_POINT FIX/NAVAID Falls Within.

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