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5.0 NAVIGATION DATA – FIELD DEFINITIONS

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System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public static class Convert
```

Remarks

Annotate the database string data with meaningfull description or convert it to other usable datatypes

Methods

AnnotateLocatorClass(String)

5.35 NAVAID Class (CLASS)

Definition/Description: The “Navaid Class” field provides information in coded format on the type of navaid, the useable range or assigned output power of the navaid, information carried on the navaid signal and collocation of navaids in both an electronic and aeronautical sense.The field is made up of five columns of codes that define this information.

Declaration

```
public static string AnnotateLocatorClass(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

AnnotateNavaidClass(String)

5.35 NAVAID Class (CLASS)

Definition/Description: The “Navaid Class” field provides information in coded format on the type of navaid, the useable range or assigned output power of the navaid, information carried on the navaid signal and collocation of navaids in both an electronic and aeronautical sense.The field is made up of five columns of codes that define this information.

Declaration

```
public static string AnnotateNavaidClass(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

AnnotateNdbClass(String)

5.35 NAVAID Class (CLASS)

Definition/Description: The “Navaid Class” field provides information in coded format on the type of navaid, the useable range or assigned output power of the navaid, information carried on the navaid signal and collocation of navaids in both an electronic and aeronautical sense.The field is made up of five columns of codes that define this information.

Declaration

```
public static string AnnotateNdbClass(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

AnnotatePathAndTermination(String)

5.21 Path and Termination (PATH TERM)

Definition/Description: The Path and Termination defines the path geometry for a single record of an ATC terminal procedure.

Declaration

```
public static string AnnotatePathAndTermination(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

AnnotateRouteType(String, String, String)

5.7 Route Type (RT TYPE)

Definition/Description: The Route Type field defines the type of Enroute Airway, Preferred Route, Airport and Heliport SID/STAR/Approach Routes of which the record is an element.For Airport and Heliport SID/STAR/Approach Routes, Route Type includes a primary route type, and up to two route type qualifiers.

Declaration

```
public static string AnnotateRouteType(this string data, string Section, string SubSection)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string
System.String	Section	
System.String	SubSection	

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

AnnotateWaypointDescriptionCode(String)

5.17 Waypoint Description Code (DESC CODE)

Definition/Description: The Waypoint Description field facilitates the designation of the type, function, and attributes of a specific waypoint in Enroute Airway or Terminal Procedure segment coding.

Declaration

```
public static string AnnotateWaypointDescriptionCode(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Annotated description string

ApprName(String)

Declaration

```
public static string ApprName(string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
System.String	

ApprNameAirbus(String)

Declaration

```
public static string ApprNameAirbus(string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
System.String	

ApprType(String)

Declaration

```
public static string ApprType(string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
System.String	

CycleEffectiveDate(Int32)

Calculates the Cycle Effective Date for a given Cycle Number

Declaration

```
public static DateTime CycleEffectiveDate(int CycleNum)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	CycleNum	CycleNum in format YYNN, with YY = Year and NN between 1 and 13

Returns

TYPE	DESCRIPTION
System.DateTime	CycleEffectiveDate as a DateTime, or default(DateTime) when invalid

Remarks

CycleNum needs to be higher than 2101

CycleExpirationDate(Int32)

Calculates the Cycle Expiration Date for a given Cycle Number

Declaration

```
public static DateTime CycleExpirationDate(int CycleNum)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	CycleNum	CycleNum in format YYNN, with YY = Year and NN between 1 and 13

Returns

TYPE	DESCRIPTION
System.DateTime	CycleExpirationDate as a DateTime, or default(DateTime) when invalid

Remarks

CycleNum needs to be higher than 2101

IsAltitudeValid(String)

5.30 Altitude/Minimum Altitude

Declaration

```
public static bool IsAltitudeValid(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indicates if the database string is a valid altitude

See Also

ToAltitude(String)

IsAltMaxUnlimited(String)

5.127 Maximum Altitude (MAX ALT)

Declaration

```
public static bool IsAltMaxUnlimited(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indicates if the database string is UNLTD

See Also

ToAltMax(String)

IsEnd(String)

Declaration

```
public static bool IsEnd(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
System.Boolean	

IsFL(String)

5.30 Altitude/Minimum Altitude

Declaration

```
public static bool IsFL(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indicates if the database string is a Flight Level

See Also

ToAltitude(String)

IsFlyOvr(String)

5.17 Waypoint Description Code (DESC CODE)

Definition/Description: The Waypoint Description field facilitates the designation of the type, function, and attributes of a specific waypoint in Enroute Airway or Terminal Procedure segment coding.

Column 41 is used to define whether the fix is a “fly-over” or “fly-by” fix and to indicate the charting status of some waypoints

Declaration

```
public static bool IsFlyOvr(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indication if Wpt is a FlyOvr, End, or Uncharted Wpt

IsHolding(String)

5.17 Waypoint Description Code (DESC CODE)

Definition/Description: The Waypoint Description field facilitates the designation of the type, function, and attributes of a specific waypoint in Enroute Airway or Terminal Procedure segment coding.

Columns 42 and 43 provide the fix function information.Column 40

Declaration

```
public static bool IsHolding(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indication if Wpt is a Holding

IsHoldingTime(String)

5.27 Route Distance From, Holding Distance/Time (RTE DIST FROM, HOLD DIST/TIME)

Declaration

```
public static bool IsHoldingTime(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.Boolean	Indicates if database string is a Time

See Also

ToDistanceOrTime(String)

IsUncharted(String)

Declaration

```
public static bool IsUncharted(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
System.Boolean	

TchUnitsIndicator(String)

5.266 TCH Units Indicator

Definition/Description: The TCH Units Indicator field is used in Path Point Records to define the units, Feet or Meters for the Path Point TCH.This element is included in the CRC Wrap a possible metric source value cannot be converted to feet. Source/Content: The field will contain the character F if the Path Point TCH is provided in source documentation in feet or the character M if that value is provided in meters. Used On: Airport and Helicopter Operations SBAS Path Point Records, GBAS Path Point Records Length: 1 character Character Type: Alpha

Declaration

```
public static Convert.TchUnits TchUnitsIndicator(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.TchUnits	TchUnits enum

ToAltitude(String)

5.30 Altitude/Minimum Altitude

Definition/Description: The Altitude/Minimum Altitude field indicates the reference altitude associated with(1) Enroute Airways(MEA, MFA or other minimum altitudes as defined by source), (2) holding pattern path of Holding Pattern record, (3) altitudes at fixes in terminal procedures and terminal procedure path termination defined by the Path Terminator in the Airport or Heliport SID/STAR/Approach Record and(4) lowest altitude of the blocked altitudes for a Preferred Route. Source/Content: Reference altitudes are determined during route definition.The values are derived from official government source when available.This specification includes specific rules for altitude provision and when those altitudes are not provided by source documents, they will be included by data suppliers according to those rules.The field may contain altitudes (all numeric) or flight level (alpha/numeric). The allnumeric fields will contain altitudes in feet with a resolution of one foot.The alpha/numeric fields will contain the alpha characters “FL” followed by the altitude expressed in hundreds of feet(three digits) or a code as indicated below. On Airport and Heliport SID, STAR and Approach Route records, the first “Altitude” field will contain an altitude when “Altitude

Description" field contains a plus (+), a minus(-), or one of the following characters: "B," "G," "H," or "V." The first "Altitude" field may contain an altitude when the "Altitude Description" field contains a "I" or "J" or when it is blank.The second "Altitude" field will contain an altitude when the "Altitude Description" field contains one of the following characters: "B," "C," "G," "H," "I," "J," or "V." In approach procedure coding, some fix "Altitudes" may be below sea level, specifically altitudes at runway fixes when the runway threshold elevation is below sea level.In these cases, the "Altitude" will be expressed in feet with a minus(-) sign in the first character of the five-character field, see examples. On Airport and Heliport SID/STAR/Approach Continuation Records, the "Localizer Only Altitude" field will contain an altitude when there is a non-precision altitude at the fix that is associated with using the ILS procedure as a Localizer Only(Glide Slope out) procedure.Such an altitude may be provided for the Final Approach Fix(FAF) or any step-down fix from the FACF inbound on the final approach course. On Enroute Airway records, the first "Minimum Altitude" field will contain the MEA or MFA if the altitude is the same for both directions of flight and the second "minimum Altitude" will be blank.If the airway segment has directional MEAs/MFAs, the first "Minimum Altitude" field will contain the value for the direction of flight in which the airway is coded and the second "Minimum Altitude" field will contain the value for the opposite direction of flight.The first "Minimum Altitude" field may contain the alpha characters UNKNN when the MEA/MFA is unknown or the alpha characters NESTB when the MEA/MFA has not been established by the appropriate authority. On Preferred Routes, the "Minimum Altitude" and the "Maximum Altitude" apply to the entire route and are a minimum and maximum block.Altitude 1 and Altitude 2 are fix related apply only to the fix in the sequence in which they occur and are defined by the Altitude Description field.

Declaration

```
public static DataTypes.vfloat ToAltitude(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Altitude in Feet

Remarks

Uses IsFL(String) to check is database string is a Flight Level and converts FL value to Feet

Uses IsAltitudeValid(String) to check if database string is valid

ToAltMax(String)

5.127 Maximum Altitude (MAX ALT)

Definition/Description: The "Maximum Altitude" field is used to indicate the maximum altitude allowed. Source/Content: Maximum altitudes should be derived from official government publications describing the upper limit of the airway in feet or flight level.

Declaration

```
public static DataTypes.vfloat ToAltMax(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Knots

Remarks

Uses IsAltMaxUnlimited(String) to check if database string is UNLTD

ToAltSpdLim(String)

5.73 Speed Limit Altitude

Definition/Description: "Speed Limit Altitude" is the altitude below which speed limits may be imposed.

Declaration

```
public static DataTypes.vfloat ToAltSpdLim(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string">

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Ft

ToAngleDeg(String)

5.52 Glide Slope Angle (GS ANGLE) Minimum Elevation Angle (MIN ELEV ANGLE) 5.70 Vertical Angle (VERT ANGLE)

Definition/Description: The "Glide Slope Angle" field defines the glide slope angle of an ILS facility/GLS approach. The "Minimum Elevation Angle" field defines the lowest elevation angle authorized for the MLS procedure. Source/Content: Glide Slope and Elevation angles from official government sources are entered into the fields in degrees, tenths of a degree and hundredths of a degree with the decimal point suppressed.

Definition/Description: The "Vertical Angle" field defines the vertical navigation path prescribed for the procedure.The vertical angle should cause the aircraft to fly at the last coded altitude and then descend on the angle, projected back from the fix and altitude code for that fix at which the angle is coded. Vertical Angle information is provided only for descending vertical navigation.The angle is preceded by a "–" (minus sign) to indicate the descending flight. Source/Content: Values from official government sources will be used when available. In coding of procedures with navaids providing an electronic glide slope, the Vertical Angle is the angle assigned to that glide slope.In coding of procedures with a published VNAV Angle, it is that angle or one calculated by the data supplier.In coding of procedures with no government source vertical angle data, it is always a data supplier calculated value; see Attachment Five, Procedure Coding Rules.The angles are expressed in degrees, tenths and

hundredths of a degree, with the decimal point suppressed.The Localizer Only Vertical Angle is a value provided for non-precision use of an ILS procedure as a Localizer Only(Glide Slope Out) procedure.

Declaration

```
public static DataTypes.vfloat ToAngleDeg(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Angle in Degrees

ToArcRadiusNM(String)

5.204 ARC Radius (ARC RAD)

Definition/Description: The "ARC Radius" field is used to define the radius of a precision turn. In Terminal Procedures, this is the "Constant Radius To A Fix" Path and Termination, for "RF" Leg. In Holding Patterns, this is the turning radius, inbound to outbound leg, for RNP Holding. The ARC Radius field is also used to specify the turn radius of RNP holding patterns included in SID, STAR, and Approach Records as HA, HF, and HM legs. Source/Content: The content of the field will be derived from official source publications. It will be expressed in nautical miles, tenths, hundredths and thousandths of a nautical mile, with the decimal point suppressed. A conversion to feet of the resolution in nautical miles is equal to an accuracy of 6 feet.

Declaration

```
public static DataTypes.vfloat ToArcRadiusNM(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Nautical Miles

ToArea(String)

5.18 Boundary Code (BDY CODE)

Definition/Description: Routes of flight frequently cross geographical boundaries.The "Boundary Code" field identifies the area into, or from which a continuous route passes when such a crossing occurs.

Declaration

```
public static Database.Area ToArea(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Database.Area	Database.Area

ToAtcIndication(String)

5.81 ATC Indicator (ATC)

Definition/Description: The ATC Indicator field will be used to indicate that the altitudes shown in the altitude fields can be modified by ATC or the altitude will be assigned by ATC. Source/Content: This field will contain the alpha character A when the official government source states that the altitude can be modified or assigned by ATC. This field will contain the alpha character S when the official government source states that the altitude will be assigned by ATC or if no altitude is supplied. Used On: Airport and Heliport SID/STAR/ Approach Records Length: 1 character Character Type: Alpha

Declaration

```
public static Convert.AtcIndications ToAtcIndication(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.AtcIndications	

ToDegrees(String)

5.24 Theta (THETA)

Definition/Description: "Theta" is defined as the magnetic bearing to the waypoint identified in the record's "FIX Ident" field from the Navaid in the "Recommended Navaid" field. Source/Content: Theta values are derived from official government sources when available.They are provided in degrees and tenths of a degree, with the decimal point suppressed.The content is controlled through requirements of the Path Terminator and coding rules contained in Attachment 5 of this specification.

Declaration

```
public static DataTypes.vfloat ToDegrees(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Degrees

ToDistanceOrTime(String)

5.27 Route Distance From, Holding Distance/Time (RTE DIST FROM, HOLD DIST/TIME)

Definition/Description: In Enroute Airways, Route Distance From is the distance in nautical miles from the waypoint identified in the records Fix Ident field to the next waypoint of the route.In SID, STAR and Approach Procedure records, the field may contain segment distances/along track distances/excursion distances/DME distances or holding pattern timing. The actual content is dependent on the Path and Termination. For more information on the content, refer to Table Three, Leg Data Fields, in Attachment 5 of this document. Source/Content: The field contains distances, from official government source where available, expressed in nautical miles and tenths of nautical miles with the decimal point suppressed.For Path and Terminations defining holdings patterns, content may be holding time expressed in nautical miles and tenths with the decimal point or holding time expressed in minutes and tenths of minutes preceded by the character T with the decimal point suppressed.For the methods of determining holding distance or holding time, refer to Section 5.64 or 5.65 of this specification. Used On: Airport and Heliport SID/STAR/Approach, Enroute Airway Records Length: 4 characters Character Type: Distance - Numeric; Time - Alpha/numeric Examples: 1076, 2822, T010, 0208, 0016

Declaration

```
public static DataTypes.vfloat ToDistanceOrTime(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Nautical Miles or Minutes

Remarks

Use IsHoldingTime(String) to check if database string is a Distance or Time

ToDistNM(String)

5.27 Route Distance From, Holding Distance/Time (RTE DIST FROM, HOLD DIST/TIME)

Definition/Description: In Enroute Airways, Route Distance From is the distance in nautical miles from the waypoint identified in the records Fix Ident field to the next waypoint of the route.In SID, STAR and Approach Procedure records, the field may contain segment distances/along track distances/excursion distances/DME distances or holding pattern timing. The actual content is

dependent on the Path and Termination. For more information on the content, refer to Table Three, Leg Data Fields, in Attachment 5 of this document. Source/Content: The field contains distances, from official government source where available, expressed in nautical miles and tenths of nautical miles with the decimal point suppressed.For Path and Terminations defining holdings patterns, content may be holding time expressed in nautical miles and tenths with the decimal point or holding time expressed in minutes and tenths of minutes preceded by the character T with the decimal point suppressed.For the methods of determining holding distance or holding time, refer to Section 5.64 or 5.65 of this specification. Used On: Airport and Heliport SID/STAR/Approach, Enroute Airway Records Length: 4 characters Character Type: Distance - Numeric; Time - Alpha/numeric Examples: 1076, 2822, T010, 0208, 0016

Declaration

```
public static DataTypes.vfloat ToDistNM(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Distance in Nautical Miles

ToElevMsl(String)

5.40 DME Elevation (DME ELEV) 5.55 Airport/Heliport Elevation (ELEV) 5.68 Landing Threshold Elevation (LANDING THRES ELEV) 5.74 Component Elevation (GS ELEV, EL ELEV, AZ ELEV, BAZ ELEV) 5.92 Facility Elevation (FAC ELEV)

Definition/Description: The DME Elevation field defines the elevation of the DME component of the NAVAID described in the record. Source/Content: DME elevations specified in official government publications are entered into this field in feet with respect to MSL.When the elevation is below MSL, the first column of the field contains a minus (-) sign.

Definition/Description: The elevation of the Airport/Heliport specified in the record is defined in the "Airport Elevation" and "Heliport Elevation" field. Source/Content: Airport/Heliport elevations are to be derived from official government sources and entered into the field in feet to a resolution of one foot. For elevations above MSL, the field contains the numeric characters of the elevation only. For below MSL elevations the first character of the field is a minus (-) sign. In most cases, airport elevation is defined as the highest elevation of any landing surface on the airport.

Definition/Description: The elevation of the landing threshold of the runway described in a runway record is defined in the "Landing Threshold Elevation" field. Source/Content: Runway landing threshold elevations derived from official government sources are entered into this field in feet, to a resolution of 1 foot. For elevations above MSL, the field contains the numeric characters of the elevation only. For below MSL elevations, the first character of the field is a minus (-) sign.

Definition/Description: The "Component Elevation" field defines the elevation of a given component in the Localizer, GLS and MLS records. The "Glide Slope Elevation (GS ELEV)" defines the elevation of the Glide Slope component in the Localizer Records. The "EL Elevation (EL ELEV)" defines the elevation of the Elevation component of the MLS Record, the "Azimuth Elevation (AZ ELEV)" defines the elevation of the Azimuth component of the MLS Record and the "Back Azimuth Elevation (BAZ ELEV)" defines the elevation of the Back Azimuth component of the MLS Record. The "GLS station elevation (GLS ELEV)" defines the elevation of the GLS ground station in the GLS record. Source/Content: Elevations specified in official government publications are entered in this field with respect to MSL. When the elevation is below MSL, the first column of the field contains a minus (-) sign.

Definition/Description: This "Elevation" field defines the elevation of the VOR, NDB, ILS Marker, Airways Marker and Airport

Communications stations. Source/Content: Facility elevations specified in official government publications are entered into this field in feet with respect to MSL. When the elevation is below MSL, the first column of the field contains a minus (-) sign.

Declaration

```
public static DataTypes.vfloat ToElevMsl(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Elevation in Feet relative to MSL

ToFreqComChan(String)

Declaration

```
public static DataTypes.vfloat ToFreqComChan(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToFreqComHf(String)

5.103 Communications Frequency (COMM FREQ)

Definition/Description: The “Communications Frequency” field specifies a frequency for the facility identified in the “Communications Type” (5.101) field. Source/Content: Content is derived from official government sources.The following details apply: HF frequencies are provided as five significant digits in kilohertz for 10 thousands, thousands, hundreds, tens and units.The remaining two positions of the seven-character field is zero filled. Example: The HF frequency of 17955 kHz would be expressed as 1795500. The HF frequency of 8965 kHz would be expressed as 0896500. VHF frequencies with 100, 50 or 25 kilohertz spacing are provided as three significant digits and three decimals in megahertz for hundreds, tens, units, tenths, hundredths and thousandths.The remainder of the seven-character field is zero filled. Example: The VHF frequency of 118.50 MHz would be expressed as 0118500. The VHF frequency of 131.275 MHz would be expressed as 0131275. UHF frequencies are provided as three significant digits and two decimals in megahertz for hundreds, tens, units, tenths and hundredths.The remainder of the seven-character field is zero filled. Example: the UHF frequency of 267 MHz would be expressed as 0026700. The UHF frequency of 287.5 MHz would be expressed as 0028750. VHF frequencies with 8.33 kHz spacing are provided as four significant digits and three decimals for the assigned channel number. The actual frequency (which would be three significant digits and four decimal places) is not provided. Example: The VHF frequency of 132.0583 MHz will be provided as the channel number 132.060, expressed in seven digits as 0132060. The decimal point is always suppressed. As all of these numeric expressions look alike, the “Frequency Units” field (Section 5.104) is provided to assist in actual frequency determination.

Declaration

```
public static DataTypes.vfloat ToFreqComHf(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToFreqComUhf(String)

Declaration

```
public static DataTypes.vfloat ToFreqComUhf(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToFreqComVhf(String)

Declaration

```
public static DataTypes.vfloat ToFreqComVhf(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToFreqNdb(String)

5.34 VOR/NDB Frequency (VOR/NDB FREQ)

Definition/Description: The VOR/NDB Frequency field specifies the frequency of the NAVAID identified in the VOR/NDB Identifier field of the record. Source/Content: Frequencies are derived from official government sources.VHF NAVAID frequencies contain

characters for hundreds, tens, units, tenths and hundredths of megahertz.NDB frequencies contain characters for thousands, hundreds, tens, units and tenths of kilohertz.The decimal point following the unit entry is suppressed in both cases.

Declaration

```
public static DataTypes.vfloat ToFreqNdb(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Frequency in KHz

ToFreqUnit(String)

5.104 Frequency Units (FREQ UNIT)

Definition/Description: The “Frequency Units” field will designate the frequency spectrum area for the frequency in the “Communications Frequency” (Section 5.103) field as indicated in the table or will designate the content of the “Communications Frequency” field as a channel.

Declaration

```
public static string ToFreqUnit(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Field Content Description H High Frequency (3000 kHz - 30,000 kHz) V Very High Frequency (30,000 kHz - 200 MHz) U Ultra High Frequency (200 MHz - 3000 MHz) C Communication Channel for 8.33kHz spacing

ToFreqVhf(String)

5.34 VOR/NDB Frequency (VOR/NDB FREQ) 5.45 Localizer Frequency (FREQ)

Definition/Description: The VOR/NDB Frequency field specifies the frequency of the NAVAID identified in the VOR/NDB Identifier field of the record. Source/Content: Frequencies are derived from official government sources.VHF NAVAID frequencies contain characters for hundreds, tens, units, tenths and hundredths of megahertz.NDB frequencies contain characters for thousands, hundreds, tens, units and tenths of kilohertz.The decimal point following the unit entry is suppressed in both cases.

Definition/Description: The “Localizer Frequency” field specifies the VHF frequency of the facility identified in the “Localizer

Identifier" field. Source/Content: The official government-source localizer frequency is entered into the field with a resolution of 50 kHz. The decimal point following the unit MHz entry is suppressed.

Declaration

```
public static DataTypes.vfloat ToFreqVhf(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Frequency in MHz

ToFt(String)

5.57 Runway Length (RUNWAY LENGTH) 5.67 Threshold Crossing Height (TCH) 5.109 Runway Width (WIDTH)

Definition/Description: The "Runway Length" field defines the total length of the runway surface declared suitable and available for ground operations of aircraft for the runway identified in the records' Runway Identifier field. Source/Content: Runway lengths are derived from official government sources and are entered in feet with a resolution of one foot. The value represents the overall length of the runway, with no regard for displaced thresholds. It does not include stopways, overruns or clearways. Available landing lengths and take-off runs are not necessarily identical to this runway length. Analysis of the content of Section 5.69, Displaced Threshold and 5.79, Stopway is required to determine these operational lengths. As the latitude/longitude information in the runway record reflects the Landing Threshold Point of the runway identified in the record, which may or may not be displaced, there is no direct correlation between the Runway Length and a value calculated based on these latitude/longitude values. For additional information on runway length analysis and operational length calculations, see Figure 5-9.

Definition/Description: The "Threshold Crossing Height" specifies the height above the landing threshold on a normal glide path. Source/Content: The Threshold Crossing Height will be derived from official government sources when available. As provided on Runway Records, the TCH value will be the Glide Slope Height at the landing threshold for runways with ILS or MLS approaches. If an ILS or MLS is not available and an RNAV approach is available it will be the published TCH for that procedure. When ILS/MLS or RNAV values are not available but a published VGSI with TCH is available, it will be used. If none of these values are available, it will be 50 feet. When used on Approach Continuation Records, the field will contain the published TCH for that procedure. When used on ILS or MLS Records, it will be the height of the glide slope at the landing threshold.

Definition/Description: The width of the runway identified in the "Runway Identifier" field is specified in the "Runway Width" field. Source/Content: Runway widths derived from Official Government Sources are entered into the field in feet, with a resolution of one foot. For runways of variable width, the minimum width encountered over the runway length will be entered.

Declaration

```
public static DataTypes.vfloat ToFt(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Feet

ToGpsFmsIndicator(String)

5.222 GPS/FMS Indicator (GPS/FMS IND)

Definition/Description: The GNSS/FMS Indicator field provides an indication of whether or not the responsible government agency has authorized the overlay of a conventional, ground based approach procedure with the use of a sensor capable of processing GNSS data or if the procedure may be flown with FMS as the primary navigation equipment.The field is also used to indicate when an RNAV procedure has been authorized for GNSS-based vertical navigation.

Declaration

```
public static Convert.GpsFmsIndicators ToGpsFmsIndicator(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.GpsFmsIndicators	GpsFmsIndicators enum

ToHoldingTime(String)

5.27 Route Distance From, Holding Distance/Time (RTE DIST FROM, HOLD DIST/TIME)

Definition/Description: In Enroute Airways, Route Distance From is the distance in nautical miles from the waypoint identified in the records Fix Ident field to the next waypoint of the route.In SID, STAR and Approach Procedure records, the field may contain segment distances/along track distances/excursion distances/DME distances or holding pattern timing. The actual content is dependent on the Path and Termination. For more information on the content, refer to Table Three, Leg Data Fields, in Attachment 5 of this document. Source/Content: The field contains distances, from official government source where available, expressed in nautical miles and tenths of nautical miles with the decimal point suppressed.For Path and Terminations defining holdings patterns, content may be holding time expressed in nautical miles and tenths with the decimal point or holding time expressed in minutes and tenths of minutes preceded by the character T with the decimal point suppressed.For the methods of determining holding distance or holding time, refer to Section 5.64 or 5.65 of this specification. Used On: Airport and Heliport SID/STAR/Approach, Enroute Airway Records Length: 4 characters Character Type: Distance - Numeric; Time - Alpha/numeric Examples: 1076, 2822, T010, 0208, 0016

Declaration

```
public static DataTypes.vTimeSpan ToHoldingTime(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vTimeSpan	Holding Time

ToKt(String)

5.72 Speed Limit (SPEED LIMIT) 5.175 Holding Speed (HOLD SPEED)

Definition/Description: The “Speed Limit” field defines a speed, expressed in Knots, Indicated(K.I.A.S.), for a fix in a terminal procedure or for an airport or heliport terminal environment. Source/Content: The speed limit will be derived from official government source documentation and shown in Knots.When used on an Airport or Heliport Record, the field is an indication of the maximum allowed speed and applies to all flight segments departing or arriving that airport’s or heliport’s terminal area, at and below the specified Speed Limit Altitude (5.73). When used on Airport and Heliport SID/STAR/Approach Records, the field is an indication of a speed for a fix in the procedure description, used in conjunction with Speed Limit Description(5.261). On SID Procedure Records, the speed limit will apply to all legs up to and including the termination of the leg on which the speed is coded from the beginning of the procedure or a previous speed limit.If a different speed is coded on a subsequent leg, the limit will be applied for that leg and from that leg backwards to the previous terminator which contained a speed limit. On STAR and Approach Procedure Records, the speed limit will be applied forward to the end of the arrival (e.g.throughout the procedure until the end of the Flight Plan) or until superceded by another speed limit. The intent in both SIDs and STARs is to exclude speed changes inconsistent with the procedure

Definition/Description: The “Holding Speed” will be the maximum speed in a holding pattern. Source/Content: The speed limit will be derived from official government sources. If the value is different from the limit given with ICAO rules, it will be shown in knots, else the field will be blank.

Declaration

```
public static DataTypes.vfloat ToKt(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Knots

ToLat(String)

5.36 Latitude (LATITUDE)

Definition/Description: The Latitude field contains the latitude of the navigational feature identified in the record.

Declaration

```
public static DataTypes.vdouble ToLat(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vdouble	Latitude in decimal format

ToLon(String)

5.37 Longitude (LONGITUDE)

Definition/Description: The Longitude field contains the longitude of the geographic position of the navigational feature identified in the record.

Declaration

```
public static DataTypes.vdouble ToLon(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vdouble	Longitude in decimal format

ToMagBearing(String)

5.47 Localizer Bearing (LOC BRG) 5.58 Runway Magnetic Bearing (RWY BRG)

Definition/Description: The Localizer Bearing field defines the magnetic bearing of the localizer course of the ILS facility/GLS approach described in the record. Source/Content: Localizer courses, derived from official government sources, are entered into the field in degrees and tenths of a degree, with the decimal point suppressed.For localizer courses published with the intent to be used as true courses, the last character of this field will contain a T in place of tenths of a degree.

Definition/Description: The magnetic bearing of the runway identified in the “runway identifier” field of the record is specified in the “Runway Magnetic Bearing” field. Source/Content: Runway magnetic bearings derived from official government sources are

entered into the field in degrees and tenths of a degree, with the decimal point suppressed. For runway bearings charted with true bearings, the last character of this field will contain a “T” in place of tenths of a degree.

Declaration

```
public static DataTypes.vfloat ToMagBearing(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Magnetic Bearing in Degrees

ToMagCourse(String)

5.26 Outbound Magnetic Course (OB MAG CRS) 5.28 Inbound Magnetic Course (IB MAG CRS) 5.62 Inbound Holding Course (IB HOLD CRS)

Definition/Description: “Outbound Magnetic Course” is the published outbound magnetic course from the waypoint identified in the record’s “Fix Ident” field.In addition, this field is used for Course/Heading/Radials on SID/STAR Approach Records through requirements of the Path Terminator and coding rules contained in Attachment 5 of this specification. Source/Content: Values from official government sources will be used when available. The field contains magnetic information expressed in degrees and tenths of a degree, with the decimal point suppressed.For route and procedure segments charted in “degrees true,” the last character (tenths position) of the field will contain the character “T”. See Section 5.165 of this document for more information on “degrees true” information.

Definition/Description: “Inbound Magnetic Course” is the published inbound magnetic course to the waypoint in the “Fix Ident” field of the records in which it is employed. The “HX” group of Path Terminator codes is used to provide racetrack type course reversal flight paths. Government publications for these course reversal include an “inbound magnetic bearing.” The SID/STAR/Approach Procedures records do not include a dedicated field for this inbound course.Instead, the information is included in the “Outbound Magnetic Course” field of such records. Source/Content: Values from official government sources will be used when available. The field contains magnetic bearing in degrees and tenths of a degree, with the decimal point suppressed.For routes charted with true courses, the last character of this field will contain a “T” in place of tenths of a degree.

Definition/Description: The “Inbound Holding Course” field defines the inbound course to the holding waypoint. Source/Content: Inbound holding courses derived from official government sources are entered into the field in degrees and tenths of a degree, with the decimal point suppressed. For holding courses charted with true bearings, the last character of this field contains a “T” in place of tenths of a degree.

Declaration

```
public static DataTypes.vfloat ToMagCourse(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Magnetic Course in Degrees

ToMagCourseInd(String)

5.26 Outbound Magnetic Course (OB MAG CRS) Indicated in Degrees True 5.28 Inbound Magnetic Course (IB MAG CRS) Indicated in Degrees True 5.62 Inbound Holding Course (IB HOLD CRS) Indicated in Degrees True

Declaration

```
public static DataTypes.vbool ToMagCourseInd(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vbool	Is Degrees True

ToMagInd(String)

5.165 Magnetic/True Indicator (M/T IND)

Definition/Description: The field has multiple definitions. For Airport and Heliport Primary Records, it is used to indicate that all bearing and course detail for that airport are included in the data base with a reference to either Magnetic North or to True North.The field is blank in Airport Record when the data base contains a mix of magnetic and true bearing or course information for the airport.The Magnetic/True Indicator field is also used to indicate if the Course From and Course To fields of the Cruise Table record and the Sector Bearing fields of the MSA and TAA record are in magnetic or true degrees. Source/Content: In Airport Records, the field will contain the alpha character M if all bearing and course detail for the airport are provided in magnetic or the alpha character T if all bearing and course detail for the airport are provided in true. The field will be blank if bearing and course data are provided in a mix of magnetic and true for the airport. Cruise Table Courses, MSA, and TAA Sector Bearings will be derived from official government source.The field will contain the alpha character M if the Course From/To or Sector Bearings are magnetic. It will contain the alpha character T if the courses/bearings are true. Used On: Airport, Heliport, Cruise Table and Airport and Heliport MSA Records, and Airport and Heliport TAA Record Length: 1 character Character Type: Alpha

Declaration

```
public static DataTypes.vbool ToMagInd(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vbool	

ToMagneticVariation(String)

5.39 Magnetic Variation (MAG VAR, D MAG VAR)

Definition/Description: The Magnetic Variation field specifies the angular difference between True North and Magnetic North at the location defined in the record. Dynamic Magnetic Variation is a computer model derived value and takes location and date into consideration. For the Station Declination used in some record types, refer to Section 5.66. Source/Content: Magnetic variations are obtained from official government data sources and other geographical magnetic variation source.A number of different terms are used in government documentation that have specific connotations for the information provided by that government. The most common is Epoch Year Variation. In theory, this is a value determined by a government agency once every five years and published for general use. Along with Epoch Year Variation, some governments also publish an annual drift value. Data suppliers do not include annual drift derived figures in their databases but rather stay with the Epoch Year value. Another term encountered in source documentation is Magnetic Variation of Record. This is generally an Epoch Year value.The difference here is that the government authority has established the value as valid for everything associated with a given location. For example, if a Magnetic Variation of Record is established for an airport location, everything referenced to that airport will use the same value. This is of interest as it means that Terminal Procedure design is also based on that value.Obvious differences can occur between a database supplied, semi-static value, and a value derived dynamically, either by the airborne systems or supplier ground systems. Dynamic Magnetic Variation, contained in the VHF Navaid Continuation Record and Enroute/Terminal Waypoint Primary Records, is a computed, earth model derived figure, and is updated dynamically on a schedule established by the data base supplier. When used on Enroute, Airport, and Heliport Communication Records, the field contains the magnetic variation of the latitude/longitude position defined in the record. If that latitude/longitude represents the position of a navaid or airport (Table 5-18 and Notes 7 and 8 of Section 5.37) the value provided will be identical to magnetic variation provided in the referenced record.If the latitude/longitude represents a stand-alone communications transmitter, the field will contain a government source provided value or the derived Dynamic Magnetic Variation when no source information is provided.If the latitude/longitude fields of the record are blank, the magnetic variation field will also be blank. Position one of the field contains an alpha character taken from the table below followed by the value of magnetic variation expressed in degrees and tenths of a degree, with the decimal point suppressed.When the first position is coded with the character T, the value provided in position 2 through 5 will be all zeros.

Declaration

```
public static DataTypes.vfloat ToMagneticVariation(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Magnetic Variation

ToMagneticVariationStr(String)

5.39 Magnetic Variation (MAG VAR, D MAG VAR)

Definition/Description: The Magnetic Variation field specifies the angular difference between True North and Magnetic North at

the location defined in the record. Dynamic Magnetic Variation is a computer model derived value and takes location and date into consideration. For the Station Declination used in some record types, refer to Section 5.66. Source/Content: Magnetic variations are obtained from official government data sources and other geographical magnetic variation source.A number of different terms are used in government documentation that have specific connotations for the information provided by that government. The most common is Epoch Year Variation. In theory, this is a value determined by a government agency once every five years and published for general use. Along with Epoch Year Variation, some governments also publish an annual drift value. Data suppliers do not include annual drift derived figures in their databases but rather stay with the Epoch Year value. Another term encountered in source documentation is Magnetic Variation of Record. This is generally an Epoch Year value.The difference here is that the government authority has established the value as valid for everything associated with a given location. For example, if a Magnetic Variation of Record is established for an airport location, everything referenced to that airport will use the same value. This is of interest as it means that Terminal Procedure design is also based on that value.Obvious differences can occur between a database supplied, semi-static value, and a value derived dynamically, either by the airborne systems or supplier ground systems. Dynamic Magnetic Variation, contained in the VHF Navaid Continuation Record and Enroute/Terminal Waypoint Primary Records, is a computed, earth model derived figure, and is updated dynamically on a schedule established by the data base supplier. When used on Enroute, Airport, and Heliport Communication Records, the field contains the magnetic variation of the latitude/longitude position defined in the record. If that latitude/longitude represents the position of a navaid or airport (Table 5-18 and Notes 7 and 8 of Section 5.37) the value provided will be identical to magnetic variation provided in the referenced record.If the latitude/longitude represents a stand-alone communications transmitter, the field will contain a government source provided value or the derived Dynamic Magnetic Variation when no source information is provided.If the latitude/longitude fields of the record are blank, the magnetic variation field will also be blank. Position one of the field contains an alpha character taken from the table below followed by the value of magnetic variation expressed in degrees and tenths of a degree, with the decimal point suppressed.When the first position is coded with the character T, the value provided in position 2 through 5 will be all zeros.

Declaration

```
public static string ToMagneticVariationStr(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	Magnetic Variation String

ToMeter0(String)

5.259 Length Offset (OFFSET)

Definition/Description: The Length Offset field is the distance from the stop end of the runway(SER) to the FPAP.This distance defines the location where lateral sensitivity changes to the missed approach sensitivity.If the FPAP is located at the designated center of the opposite runway end, the distance is zero.Additionally, if the procedure is a Point in Space procedure and there is no runway, the value is set to 0000 (all zeros). Source/Content: A value, expressed in meters, derived from official government sources (Explanation and details will appear in appropriate FAA and ICAO documents). The actual resolution is 8 meters. Used On: Airport and Helicopter Operations SBAS Path Point Records, GBAS Path Point Records Length: 4 characters Character Type: Numeric Examples: 0000, 0432

Declaration

```
public static DataTypes.vfloat ToMeter0(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Meter

ToMeter1(String)

5.225 Ellipsoidal Height 5.263 HAL 5.264 VAL

Definition/Description: The Ellipsoidal Height field is the height of a surveyed point in reference to the WGS-84 ellipsoid. Source/Content: The Ellipsoidal Height will be an official publication value. It will be provided in meters with a resolution of one tenth.The decimal point is suppressed. When the published Height is below the Ellipsoid, the first position will carry a minus (-) sign to indicate this condition.Otherwise, this first position will be a plus (+) sign. When used on Path Point Records, the Ellipsoidal Height will be for the LTP or FTP Position defined in the Path Point Record. When used on Helicopter Operations SBAS Path Point Records, the value is the height above ellipsoid for the Fictitious Helipoint (or helipoint). When used on Runway Records, the Ellipsoidal Height will be for the Landing Threshold defined in the Runway Record. Used On: Airport and Helicopter Operations SBAS Path Point Record, GBAS Path Point Records, and Runway Records Length: 6 characters Character Type: Alpha/numeric Examples: +00356, +00051, +00015 -00022, -01566

Definition/Description: The Horizontal Alert Limit (HAL) is the radius of a circle in the horizontal plane(the local plane tangent to the WGS-84 ellipsoid), with its center being at the true position, which describes the region which is required to contain the indicated horizontal position with the required probability for a particular navigation mode assuming the probability of a GPS satellite integrity failure being included in the position solution is less than or equal to 10-4 per hour. Source/Content: A value, expressed in meters to a resolution of tenths of meters with the decimal point suppressed, derived from official government sources. Used On: Airport and Helicopter Operations SBAS Path Point Records Length: 3 Characters Character Type: Numeric Examples: 400, 200

Definition/Description: The Vertical Alert Limit (VAL) is half the length of a segment on the vertical axis(perpendicular to the horizontal plane of WGS-84 ellipsoid), with its center being at the true position, which describes the region which is required to contain the indicated vertical position with a probability of 1-10-7 per approach, assuming the probability of a GPS satellite integrity failure being included in the position solution is less than or equal to 10-4 per hour. Source/Content: A value, expressed in meters to a resolution of tenths of meters with the decimal point suppressed, derived from official government sources. Used On: Airport and Helicopter Operations SBAS Path Point Records Length: 3 Characters Character Type: Numeric Examples: 120, 500

Declaration

```
public static DataTypes.vfloat ToMeter1(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Meter

ToMeter2(String)

5.228 Course Width At Threshold (CRS WDTH)

Definition/Description: The Course Width At Threshold field defines the width of the lateral course at the Landing Threshold Point(LTP) or Fictitious Helipoint(or helipoint). This width, in conjunction with the location of the Flight Path Alignment Point(FPAP) defines the sensitivity of the lateral deviations throughout the approach. Source/Content: The width will be derived from official government sources and entered in meters in the hundreds, tens, units, tenths and hundredths format with the decimal point suppressed.The value requires a data resolution of 0.25 meters and acceptable values will end in 00, 25, 50, and 75. When the procedure is to a helicopter alighting point (helipad), the value is 38 meters (expressed as 03800). When the procedure is a helicopter operations Point in Space(PinS) procedure, the value is the course width at a fictitious helipoint(or helipoint), see Figure 5-9. Used On: Airport and Helicopter Operations SBAS Path Point Records, GBAS Path Point Records Length: 5 characters Character Type: Numeric Examples: 08025, 14375, 03800

Declaration

```
public static DataTypes.vfloat ToMeter2(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Meter

ToMinutes(String)

5.65 Leg Time (LEG TIME)

Definition/Description: The “Leg Time” field specifies the length of the inbound leg of a holding pattern in units of time (Figure 5-10). Source/Content: Leg time, derived from official government sources, is entered into this field in minutes and tenths of a minute, with the decimal point suppressed.

Declaration

```
public static DataTypes.vfloat ToMinutes(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Minutes

ToMinutesTimeSpan(String)

5.65 Leg Time (LEG TIME)

Definition/Description: The "Leg Time" field specifies the length of the inbound leg of a holding pattern in units of time (Figure 5-10). Source/Content: Leg time, derived from official government sources, is entered into this field in minutes and tenths of a minute, with the decimal point suppressed.

Declaration

```
public static DataTypes.vTimeSpan ToMinutesTimeSpan(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vTimeSpan	Minutes as TimeSpan

ToMsaFt(String)

5.147 Sector Altitude (SEC ALT)

Definition/Description: When used on MSA records, the Sector Altitude provides a 1000 foot obstacle clearance within the specified sector.When used on TAA records, the Sector Minimum Altitude is the minimum altitude for that sector, providing obstacle clearance compatible with the instrument procedures with which the TAA is associated, generally 1000 feet or more as necessary in mountainous areas.Flight crews are expected to fly direct to the initial approach fix in the record at the appropriate sector altitude unless otherwise instructed by ATC.

Declaration

```
public static DataTypes.vfloat ToMsaFt(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Minimum Sector Altitude in Feet

ToNM(String)

5.25 Rho (RHO) 5.64 Leg Length (LEG LENGTH)

Definition/Description: "RHO" is defined as the geodesic distance in nautical miles to the waypoint identified in the record's "Fix Ident" field from the NAVAID in the "Recommended NAVAID" field. Source/Content: Rho values derived from official government sources will be used when available.They are entered into the field in nautical miles and tenths of a nautical mile, with the decimal point suppressed.The content is controlled through requirements of the Path Terminator and coding rules contained in Attachment 5 of this specification.

Definition/Description: The "Leg Length" field specifies the distance between the point at which the aircraft rolls out on the inbound leg of the holding pattern and the fix at which the holding pattern is defined (Figure 5-10). Source/Content: Leg length derived from official government sources is entered into the field in nautical miles and tenths of a nautical mile, with the decimal point suppressed.

Declaration

```
public static DataTypes.vfloat ToNM(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Nautical Miles

ToPathPointTch(String, Convert.TchUnits)

5.265 Path Point TCH

Definition/Description: On procedures to runways or helipads, the Path Point TCH is the height above the runway threshold(LTP) or the helicopter alighting point. On procedures which are Point in Space, the height of the fictitious helipoint (or helipoint) above the height of the heliport.It is the same as the TCH defined in Section 5.67, but has greater resolution due to the required precision. Source/Content: The value is derived from official government sources.The value may be expressed in feet to a resolution of tenths of feet, decimal point suppressed or expressed in meters to a resolution of hundredths of meters, decimal point suppressed.Whether or the value is in feet or meters can be determined from the TCH Units Indicator. Used On: Airport and Helicopter Operations SBAS Path Point Records, GBAS Path Point Records Length: 6 characters Character Type: Numeric Examples: 000526, 001023 (Feet) 001603, 003118 (meters)

Declaration

```
public static DataTypes.vfloat ToPathPointTch(this string data, Convert.TchUnits unit)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string
Convert.TchUnits	unit	

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToRnpNm(String)

5.211 Required Navigation Performance (RNP)

Definition/Description: Required Navigation Performance (RNP) is a statement of the Navigation Performance necessary for operation within a defined airspace in accordance with ICAO Annex 15 and/or State published rules. Source/Content: RNP values derived from official government source will be used when available. They are entered into the field in nautical miles (two digits) with a zero or negative exponent (one digit). The contents can be: When used on Enroute Airway segments, RNP shall apply inbound to the fix when viewed in increasing sequence number order. The RNP applies only to the airway leg on which it is specified.If no RNP values is coded on a segment, there is not a database specified RNP for that segment. When used on a SID, STAR and Approach Procedure records, the RNP shall apply to the segment on which it is coded.RNP will be coded on every segment where it is specified by source.Lack of a RNP value on a segment indicates no source supplied RNP value was available for that segment. When used on Holding Patterns, the RNP applies to the holding pattern as defined in the record. Note 1: The RNP concept will also be applied to defined airspaces, in addition to the specific flight paths as defined above. ARINC 424-13 added an airspace record that includes a reservation for RNP until actual content can be defined. Note 2: There are no provisions for Vertical RNP in ARINC 424 at this time. Used On: Airport and Heliport SID/STAR/Approach, Enroute Airways, Airport and Heliport SID/STAR/Approach Continuation, Controlled Airspace and Holding Pattern Records Length: 3 character (see content paragraph) Character Type: Numeric Examples: 990 (equal to 99.0NM), 120 (equal to 12.0NM), 013

Declaration

```
public static DataTypes.vfloat ToRnpNm(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	Nautical Miles

ToSbasServiceProviderIdentifier(String)

5.255 SBAS Service Provider Identifier (SBAS ID)

Definition/Description: The SBAS Service Provider Identifier field is used to associate the approach procedure to a particular satellite based approach system service provider. Source/Content: A number from 00 to 15. The current definitions are: Waas,

Egnos, Msas, NoSbas, Any

Declaration

```
public static Convert.SbasIds ToSbasServiceProviderIdentifier(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.SbasIds	SbasIds enum

ToStationDeclination(String)

5.66 Station Declination (STN DEC)

Definition/Description: For VHF NAVAIDS, the Station Declination field contains the angular difference between true north and the zero degree radial of the NAVAID at the time the NAVAID was last site checked. For ILS localizers, the field contains the angular difference between true north and magnetic north at the localizer antenna site at the time the magnetic bearing of the localizer course was established. Source/Content: Station declinations are derived from official government sources. The field contains one of the alpha characters shown in the following table followed by the value of the declination in degrees and tenths of a degree, with the decimal point suppressed.When the first column of the Station Declination field is coded T or G, the remainder of the field should be coded all zeros.

Declaration

```
public static DataTypes.vfloat ToStationDeclination(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	StationDeclination

ToStationDeclinationStr(String)

5.66 Station Declination (STN DEC)

Definition/Description: For VHF NAVAIDS, the Station Declination field contains the angular difference between true north and the zero degree radial of the NAVAID at the time the NAVAID was last site checked. For ILS localizers, the field contains the angular difference between true north and magnetic north at the localizer antenna site at the time the magnetic bearing of the localizer course was established. Source/Content: Station declinations are derived from official government sources. The field contains one

of the alpha characters shown in the following table followed by the value of the declination in degrees and tenths of a degree, with the decimal point suppressed.When the first column of the Station Declination field is coded T or G, the remainder of the field should be coded all zeros.

Declaration

```
public static string ToStationDeclinationStr(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
System.String	StationDeclination String

ToTrueBearing(String)

5.94 True Bearing (TRUE BRG)

Definition/Description: The “Magnetic Bearing” for ILS localizer, MLS Azimuth, MLS Back Azimuth and Runway records is given in the primary record. This field allows the true bearing to be entered independently of the magnetic variation. Source/Content: True Bearings are entered into the field in degrees, tenths of a degree and hundredths of a degree, with the decimal point suppressed. See Section 5.95 for source description.

Declaration

```
public static DataTypes.vfloat ToTrueBearing(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	True Bearing in Degrees

ToVerticalAngle(String)

5.70 Vertical Angle (VERT ANGLE)

Definition/Description: The Vertical Angle field defines the angular portion of vertical navigation path in STAR Route and Approach Procedure Route records.The Vertical Angle should cause the aircraft to fly at the last coded altitude and then descend on the VNAV path, projected back from the fix and altitude contained in the route sequence that contains the Vertical Angle. Source/Content: Values from official government source documents will be used when available.In the coding of Precision Approach Procedures, the Vertical Angle is the angle assigned to the glide slope.In the coding of non-precision procedures, it will

be the VNAV Path angular definition provided by the government source or a value computed based on the rules for such a computation documented in Attachment 5 of this Specification.Values greater than zero will be preceded by the minus sign (-) to indicate descending flight.When no government source value is available and none can be computed based on the rules in Attachment 5 of this Specification, the field is populated with all zeros, no minus sign.Vertical Angles are expressed in degrees, tenths and hundredths of degrees with the decimal point suppressed.The maximum value is 9.99 degrees. Used On: Airport and Heliport STAR and Approach Route Records Length: 4 characters (first character either (-) or blank) Character Type: Alpha/numeric Examples: -300, -275, -542, 000

Declaration

```
public static DataTypes.vfloat ToVerticalAngle(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ToWptFunction(String)

5.17 Waypoint Description Code (DESC CODE)

Definition/Description: The Waypoint Description field facilitates the designation of the type, function, and attributes of a specific waypoint in Enroute Airway or Terminal Procedure segment coding.

Columns 42 and 43 provide the fix function information.Column 40

Declaration

```
public static Convert.WptFunctions ToWptFunction(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.WptFunctions	Waypoint Function as WptFunctions enum

ToWptType(String)

5.17 Waypoint Description Code (DESC CODE)

Definition/Description: The Waypoint Description field facilitates the designation of the type, function, and attributes of a specific waypoint in Enroute Airway or Terminal Procedure segment coding.

The contents of Column 40 provide information on the fix type

Declaration

```
public static Convert.WptTypes ToWptType(this string data)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	data	Arinc database string

Returns

TYPE	DESCRIPTION
Convert.WptTypes	Waypoint Type as WptTypes enum

Enum Convert.AtcIndications

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum AtcIndications
```

Fields

NAME	DESCRIPTION
AtcCanAssignOrModifyAlt	
AtcWillAssignAltOrNoAlt	
None	

Enum Convert.GpsFmsIndicators

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum GpsFmsIndicators
```

Fields

NAME	DESCRIPTION
AuthorizedForFmsAndGpsOverlay	
AuthorizedForFmsOverlay	
AuthorizedForGnssOverlay_PrimaryNavaidsInstalledNotMonitored	
AuthorizedForGnssOverlay_PrimaryNavaidsOperatingAndMonitored	
AuthorizedForGnssOverlay_ProcedureTitleIncludesGpsOrGnss	
GpsStandAlone	
None	
NotAuthorizedForGnssOrFmsOverlay	
OverlayAuthorizationunspecified	
RnavGpsOrRnavRnpOrRnavGnssOrRnavVisualProcedureSbasUseNotAuthorized	
RnavGpsOrRnavRnpOrRnavGnssProcedureSbasUseAuthorized	
RnavGpsOrRnavRnpOrRnavGnssProcedureSbasUseNotPublished	
RnavGpsOrRnavRnpOrRnavGnssProcedureWithinSbasOpsFootprintButSbasUseNotAuthorized	

Enum Convert.SbasIds

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum SbasIds
```

Fields

NAME	DESCRIPTION
Any	
Egnos	
Msas	
None	
NoSbas	
Waas	

Enum Convert.TchUnits

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum TchUnits
```

Fields

NAME	DESCRIPTION
Feet	
Meter	
Undefined	

Enum Convert.WptFunctions

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum WptFunctions
```

Fields

NAME	DESCRIPTION
FinalApprCourseFix	
FinalApprFix	
FinalEndPointFix	
HoldingFix	
InitialApprFix	
InitialApprFixWithFinalApprCourseFix	
InitialApprFixWithHolding	
IntermediateApprFix	
MissedApprPointFix	
None	

Enum Convert.WptTypes

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum WptTypes
```

Fields

NAME	DESCRIPTION
Arpt	
Essential	
Heli	
Ndb	
None	
NonEssential	
OffAwy	
Phantom	
Rwy	
Transition	
Vhf	

Class Database

4.0 NAVIGATION DATA – RECORD LAYOUT

Inheritance

System.Object
Database

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Database
```

Remarks

Classes for the different navigation data types

Constructors

Database()

Declaration

```
public Database()
```

Database(Int32, Int32, Int32)

Declaration

```
public Database(int versionEV, int versionPV, int versionPI)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Int32	versionEV	
System.Int32	versionPV	
System.Int32	versionPI	

Fields

HeaderData

Declaration

```
public Database.HeaderRecord HeaderData
```

Field Value

TYPE	DESCRIPTION
Database.HeaderRecord	

ReadDataCount

Declaration

```
public int ReadDataCount
```

Field Value

TYPE	DESCRIPTION
System.Int32	

Properties

LicensedProduct

Declaration

```
public string LicensedProduct { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LicensedTo

Declaration

```
public string LicensedTo { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LicenseValid

Declaration

```
public bool LicenseValid { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Methods

CheckDatabase(String)

Declaration

```
public bool CheckDatabase(string FileName)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	FileName	

Returns

TYPE	DESCRIPTION
System.Boolean	

GetAirportApprIdents(List<Database.DataRecord>, String)

Get a list of APPR Idents for a specific Airport

Declaration

```
public List<string> GetAirportApprIdents(List<Database.DataRecord> NavData, string AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportApprRwy(List<Database.DataRecord>, String, String)

Get the Runways for a specific Airport/Approach

Declaration

```
public Database.AirportRunway GetAirportApprRwy(List<Database.DataRecord> NavData, string AirportIdent, string ApprIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

TYPE	NAME	DESCRIPTION
System.String	ApprIdent	Specific Approach

Returns

TYPE	DESCRIPTION
Database.AirportRunway	

GetAirportApprs(List<Database.DataRecord>, String)

Get a list of all APPR records for a specific Airport

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportApprs(List<Database.DataRecord> NavData, string
AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportApprs(List<Database.DataRecord>, String, String, String)

Get a list of APPR records for a specific Airport/Appr/ApprVia

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportApprs(List<Database.DataRecord> NavData, string
AirportIdent, string ApprIdent, string ApprViaIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

TYPE	NAME	DESCRIPTION
System.String	ApprIdent	Specific APPROACH
System.String	ApprViaIdent	Specific APPROACH VIA or null

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportApprViaIdents(List<Database.DataRecord>, String, String)

Get a list of APPR VIA Idents for a specific Airport/APPR

Declaration

```
public List<string> GetAirportApprViaIdents(List<Database.DataRecord> NavData, string AirportIdent, string ApprIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	ApprIdent	Specific APPROACH

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportComs(List<Database.DataRecord>, String, String)

Get list of Airport Communications records for a specific IcaoCode/Airport

Declaration

```
public List<Database.AirportComs> GetAirportComs(List<Database.DataRecord> NavData, string IcaoCode, string AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirportIdent	Specific Airport or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportComs>	

GetAirportGls(List<Database.DataRecord>, String, String, String)

Get list of AirportGls records for a specific IcaoCode/Airport/Gls

Declaration

```
public List<Database.AirportGls> GetAirportGls(List<Database.DataRecord> NavData, string IcaoCode, string AirportIdent, string GlsIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirportIdent	Specific Airport or * for any
System.String	GlsIdent	Specific GlsIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportGls>	

GetAirportLocGs(List<Database.DataRecord>, Single)

Get list of AirportLocGs records for that have a specific Frequency

Declaration

```
public List<Database.AirportLocGs> GetAirportLocGs(List<Database.DataRecord> NavData, float Freq)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Single	Freq	Frequency

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportLocGs>	

GetAirportLocGs(List<Database.DataRecord>, String, String, String)

Get list of AirportLocGs records for a specific IcaoCode/Airport/Loc

Declaration

```
public List<Database.AirportLocGs> GetAirportLocGs(List<Database.DataRecord> NavData, string IcaoCode, string AirportIdent, string LocIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirportIdent	Specific Airport or * for any
System.String	LocIdent	Specific LocIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportLocGs>	

GetAirportLocGsSortedByDist(List<Database.DataRecord>, String, String, String, DataTypes.vLatLon, Single)

Get list of AirportLocGs records for a specific IcaoCode/Airport/Loc sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.AirportLocGs> GetAirportLocGsSortedByDist(List<Database.DataRecord> NavData,
string IcaoCode, string AirportIdent, string LocIdent, DataTypes.vLatLon Pos, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirportIdent	Specific Airport or * for any
System.String	LocIdent	Specific LocIdent (* not allowed)
FlightAhead.Support.DataTypes.vLatLon	Pos	Specific Lat/Lon position
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.AirportLocGs>	

GetAirportMsas(List<Database.DataRecord>, String, String)

Get list of Minimum Sector Altitude records for a specific Airport/MsaCenter

Declaration

```
public List<Database.AirportMsa> GetAirportMsas(List<Database.DataRecord> NavData, string AirportIdent, string
MsaCenter)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport or * for any
System.String	MsaCenter	Specific MsaCenter or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportMsa>	

GetAirportPathPoint(List<Database.DataRecord>, String, String, String)

Get list of AirportPathPoint records for a specific IcaoCode/Airport/???

Declaration

```
public List<Database.AirportPathPoint> GetAirportPathPoint(List<Database.DataRecord> NavData, string IcaoCode,
string AirportIdent, string ApproachProcedureIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirportIdent	Specific Airport or * for any
System.String	ApproachProcedureIdent	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportPathPoint>	

GetAirportRunwayIdents(List<Database.DataRecord>, String)

Get list of Runway Idents for a specific Airport

Declaration

```
public List<string> GetAirportRunwayIdents(List<Database.DataRecord> NavData, string AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportRunways(List<Database.DataRecord>, String, String)

Get list of records of Runways for a specified Airport

Declaration

```
public List<Database.AirportRunway> GetAirportRunways(List<Database.DataRecord> NavData, string AirportIdent,
string RunwayIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	RunwayIdent	Specific Runway or * for all

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportRunway>	

GetAirportRunwaysSortedByDist(List<Database.DataRecord>, String, String, DataTypes.vLatLon, Single)

Get list of records of Runways for a specified Airport sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.AirportRunway> GetAirportRunwaysSortedByDist(List<Database.DataRecord>
NavData, string AirportIdent, string RunwayIdent, DataTypes.vLatLon Pos, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport (* not allowed)
System.String	RunwayIdent	Specific Runway or * for all

TYPE	NAME	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	Pos	Specific Lat/Lon position
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.AirportRunway>	

GetAirports(List<Database.DataRecord>, String)

Get list of records of Airports

Declaration

```
public List<Database.AirportReferencePoint> GetAirports(List<Database.DataRecord> NavData, string
AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport or * for all

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportReferencePoint>	

GetAirportSidIdents(List<Database.DataRecord>, String, String)

Get a list of SID Idents for a specific Airport/Runway

Declaration

```
public List<string> GetAirportSidIdents(List<Database.DataRecord> NavData, string AirportIdent, string
RwyIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)

TYPE	NAME	DESCRIPTION
System.String	AirportIdent	Specific Airport
System.String	RwyIdent	Specific Runway

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportSids(List<Database.DataRecord>, String)

Get a list of all SID records for a specific Airport

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportSids(List<Database.DataRecord> NavData, string
AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport or * for all

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportSids(List<Database.DataRecord>, String, String, String, String)

Get a list of SID records for a specific Airport/Runway/Sid/SidTrans

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportSids(List<Database.DataRecord> NavData, string
AirportIdent, string RwyIdent, string SidIdent, string SidTransIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)

TYPE	NAME	DESCRIPTION
System.String	AirportIdent	Specific Airport
System.String	RwyIdent	Specific Runway
System.String	SidIdent	Specific SID
System.String	SidTransIdent	Specific SID TRANS or null

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportSidStarApprsPat(List<Database.DataRecord>, String, String, String)

Get list of records for SID or STAR or APPROACH that have a specific PathAndTermination by specifying the SubSection code and optionally the AirportIdent

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportSidStarApprsPat(List<Database.DataRecord> NavData, string
SubSection, string PathAndTermination, string AirportIdent = "*")
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	SubSection	D = SID, E = STAR, F = APPROACH
System.String	PathAndTermination	Path And Termination code
System.String	AirportIdent	Specific Airport or * for all

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportSidStarApprsWithRnp(List<Database.DataRecord>, String, String)

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportSidStarApprsWithRnp(List<Database.DataRecord> NavData,
string SubSection, string AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	
System.String	SubSection	
System.String	AirportIdent	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportSidTransIdents(List<Database.DataRecord>, String, String)

Get a list of SID TRANS Idents for a specific Airport/SID

Declaration

```
public List<string> GetAirportSidTransIdents(List<Database.DataRecord> NavData, string AirportIdent, string
SidIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	SidIdent	Specific SID

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportStarIdents(List<Database.DataRecord>, String, String)

Get a list of STAR Idents for a specific Airport/Approach

Declaration

```
public List<string> GetAirportStarIdents(List<Database.DataRecord> NavData, string AirportIdent, string
ApprIdent = "")
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	ApprIdent	Specific APPROACH

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirportStars(List<Database.DataRecord>, String)

Get a list of all STAR records for a specific Airport

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportStars(List<Database.DataRecord> NavData, string
AirportIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportStars(List<Database.DataRecord>, String, String, String, String)

Get a list of STAR records for a specific Airport/Approach/Star/StarTrans

Declaration

```
public List<Database.AirportSidStarAppr> GetAirportStars(List<Database.DataRecord> NavData, string
AirportIdent, string ApprIdent, string StarIdent, string StarTransIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	ApprIdent	Specific APPROACH
System.String	StarIdent	Specific STAR
System.String	StarTransIdent	Specific SID TRANS or null

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirportSidStarAppr>	

GetAirportStarTransIdents(List<Database.DataRecord>, String, String)

Get a list of STAR TRANS Idents for a specific Airport/STAR

Declaration

```
public List<string> GetAirportStarTransIdents(List<Database.DataRecord> NavData, string AirportIdent, string StarIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	AirportIdent	Specific Airport
System.String	StarIdent	Specific STAR

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirspaceFirUirs(List<Database.DataRecord>, String)

Get list of Airspace FIR/UIR records for a specific FirUirIdent

Declaration

```
public List<Database.FirUir> GetAirspaceFirUirs(List<Database.DataRecord> NavData, string FirUirIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	FirUirIdent	Specific FirUirIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.FirUir>	

GetAirwayIdents(List<Database.DataRecord>, String)

Get list of Airway Idents that cross through a specific FixIdent. An empty list is returned if no Airways cross through the Fix.

Declaration

```
public List<string> GetAirwayIdents(List<Database.DataRecord> NavData, string FixIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	FixIdent	Specific Fix Identifier

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

GetAirwayMarkers(List<Database.DataRecord>, String, String)

Get list of Airway Marker records for a specific IcaoCode/Ident

Declaration

```
public List<Database.AirwayMarker> GetAirwayMarkers(List<Database.DataRecord> NavData, string MarkerIcaoCode,
string MarkerIdentifier)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	MarkerIcaoCode	Specific IcaoCode or * for any
System.String	MarkerIdentifier	Specific Ident or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.AirwayMarker>	

GetAirways(List<Database.DataRecord>, String)

Get list of Airway records for a specific RouteIdent

Declaration

```
public List<Database.Airway> GetAirways(List<Database.DataRecord> NavData, string RouteIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RouteIdent	Specific RouteIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.Airway>	

GetAirways(List<Database.DataRecord>, String, String)

Get list of Airway records for a specific RouteIdent for which the Route includes a specified FixIdent, ignoring any Direction Restrictions.

Declaration

```
public List<Database.Airway> GetAirways(List<Database.DataRecord> NavData, string RouteIdent, string FixIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RouteIdent	Specific Route Identifier
System.String	FixIdent	Specific Fix Identifier

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.Airway>	

Remarks

This function returns a unique route. Without FixIdent multiple Routes on different places are returned since RouteIdent is not unique (multiple routes can have the same RouteIdent)

GetAirwaysFromFix(List<Database.DataRecord>, String, String, Boolean)

Get list of Airway records for a specific RouteIdent and starting FixIdent, from which the route is followed in a certain direction (Forward or Backward). If a valid route is found from FixIdent, it is always the first record in the returned List. For Backward traversal through the ARINC 424 DB the order of the records returned is inversed. Null is returned if no valid route is available.

Declaration

```
public List<Database.Airway> GetAirwaysFromFix(List<Database.DataRecord> NavData, string RouteIdent, string FixIdent, bool Forward)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RouteIdent	Specific Route Identifier
System.String	FixIdent	Specific Fix Identifier
System.Boolean	Forward	Direction

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.Airway>	

GetAirwaysFromFixToFix(List<Database.DataRecord>, String, String, String)

Get list of Airway records for a specific RouteIdent, starting from FixFromIdent and ending at FixToIdent. Null is returned if no valid route is available (which can be amongst others due to direction restrictions present in the route).

Declaration

```
public List<Database.Airway> GetAirwaysFromFixToFix(List<Database.DataRecord> NavData, string RouteIdent,
string FixFromIdent, string FixToIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RouteIdent	Specific Route Identifier
System.String	FixFromIdent	Specific From Fix Identifier
System.String	FixToIdent	Specific To Fix Identifier

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.Airway>	

GetAirwaysIntersectFixIdent(List<Database.DataRecord>, String, String)

Get the FixIdent of the Intersection of two Routes if one exists. An empty string is returned if there is no intersection.

Declaration

```
public string GetAirwaysIntersectFixIdent(List<Database.DataRecord> NavData, string RouteIdent1, string
RouteIdent2)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RouteIdent1	Specific Route Identifier
System.String	RouteIdent2	Specific Route Identifier

Returns

TYPE	DESCRIPTION
System.String	

Remarks

Note that any Direction Resctrictions are ignored, so although the two routes might have a common intersect fix, that fix might not be reachable due to direction restrictions.

GetControlledAirspaces(List<Database.DataRecord>, String, String)

Get list of Controlled Airspace records for a specific IcaoCode/AirspaceCenter

Declaration

```
public List<Database.ControlledAirspace> GetControlledAirspaces(List<Database.DataRecord> NavData, string IcaoCode, string AirspaceCenter)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	AirspaceCenter	Specific AirspaceCenter or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.ControlledAirspace>	

GetEnrouteComs(List<Database.DataRecord>, String)

Get list of Enroute Communications records for a specific FirRdoIdent

Declaration

```
public List<Database.EnrouteComs> GetEnrouteComs(List<Database.DataRecord> NavData, string FirRdoIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	FirRdoIdent	Specific FirRdoIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.EnrouteComs>	

GetHoldingPatterns(List<Database.DataRecord>, String, String, String)

Get list of Holding Pattern records for a specific RegionCode/IcaoCode/Ident

Declaration

```
public List<Database.HoldingPattern> GetHoldingPatterns(List<Database.DataRecord> NavData, string RegionCode,
string FixIcaoCode, string FixIdentifier)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RegionCode	Specific RegionCode or * for any
System.String	FixIcaoCode	Specific IcaoCode or * for any
System.String	FixIdentifier	Specific Ident or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.HoldingPattern>	

GetNavaidNdbs(List<Database.DataRecord>, String, String)

Get list of NavaidNdb records for a specific NavIcaoCode/NavIdent

Declaration

```
public List<Database.NavaidNdb> GetNavaidNdbs(List<Database.DataRecord> NavData, string NavIcaoCode, string
NavIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	NavIcaoCode	Specific IcaoCode or * for any

TYPE	NAME	DESCRIPTION
System.String	NavIdent	Specific NavIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.NavaidNdb>	

GetNavaidNdbsSortedByDist(List<Database.DataRecord>, String, String, DataTypes.vLatLon, Single)

Get list of NavaidNdb records for a specific NavIcaoCode/NavIdent sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.NavaidNdb> GetNavaidNdbsSortedByDist(List<Database.DataRecord> NavData,
string NavIcaoCode, string NavIdent, DataTypes.vLatLon Pos, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	NavIcaoCode	Specific IcaoCode or * for any
System.String	NavIdent	Specific NavIdent (* not allowed)
FlightAhead.Support.DataTypes.vLatLon	Pos	Specific Lat/Lon position
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.NavaidNdb>	

GetNavaidVhfs(List<Database.DataRecord>, String, String)

Get list of NavaidVhf records for a specific NavIcaoCode/NavIdent

Declaration

```
public List<Database.NavaidVhf> GetNavaidVhfs(List<Database.DataRecord> NavData, string NavIcaoCode, string
NavIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	NavIcaoCode	Specific IcaoCode or * for any
System.String	NavIdent	Specific NavIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.NavaidVhf>	

GetNavaidVhfsSortedByDist(List<Database.DataRecord>, String, String, DataTypes.vLatLon, Single)

Get list of NavaidVhf records for a specific NavIcaoCode/NavIdent sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.NavaidVhf> GetNavaidVhfsSortedByDist(List<Database.DataRecord> NavData,
string NavIcaoCode, string NavIdent, DataTypes.vLatLon Pos, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	NavIcaoCode	Specific IcaoCode or * for any
System.String	NavIdent	Specific NavIdent (* not allowed)
FlightAhead.Support.DataTypes.vLatLon	Pos	Specific Lat/Lon position
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.NavaidVhf>	

GetNearestAirportComs(List<Database.DataRecord>, Double, Double, Single)

Get list of AirportComs records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.AirportComs> GetNearestAirportComs(List<Database.DataRecord> NavData, double Lat, double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.AirportComs>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetNearestAirports(List<Database.DataRecord>, Double, Double, Single)

Get list of Airport records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.AirportReferencePoint> GetNearestAirports(List<Database.DataRecord> NavData, double Lat, double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.AirportReferencePoint>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetNearestEnrouteComs(List<Database.DataRecord>, Double, Double, Single)

Get list of EnrouteComs records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.EnrouteComs> GetNearestEnrouteComs(List<Database.DataRecord> NavData, double Lat, double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.EnrouteComs>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetNearestNavaidNdbs(List<Database.DataRecord>, Double, Double, Single)

Get list of NavaidNdb records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.NavaidNdb> GetNearestNavaidNdbs(List<Database.DataRecord> NavData, double Lat, double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)

TYPE	NAME	DESCRIPTION
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.NavaidNdb>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetNearestNavaidVhfs(List<Database.DataRecord>, Double, Double, Single)

Get list of NavaidVhf records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.NavaidVhf> GetNearestNavaidVhfs(List<Database.DataRecord> NavData, double Lat, double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.NavaidVhf>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetNearestWaypoints(List<Database.DataRecord>, Double, Double, Single)

Get list of Waypoint records that is sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.Waypoint> GetNearestWaypoints(List<Database.DataRecord> NavData, double Lat,
double Lon, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.Double	Lat	Specific Lat
System.Double	Lon	Specific Lon
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.Waypoint>	SortedList Key gives the calculated distance from the specified Lan/Lon

GetRestrictiveAirspaces(List<Database.DataRecord>, String, String)

Get list of Restrictive Airspace records for a specific IcaoCode/RestrictiveAirspaceDesignation

Declaration

```
public List<Database.RestrictiveAirspace> GetRestrictiveAirspaces(List<Database.DataRecord> NavData, string
IcaoCode, string RestrictiveAirspaceDesignation)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	IcaoCode	Specific IcaoCode or * for any
System.String	RestrictiveAirspaceDesignation	Specific RestrictiveAirspaceDesignation or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.RestrictiveAirspace>	

GetWaypoints(List<Database.DataRecord>, String, String, String)

Get list of Waypoint records for a specific RegionCode/IcaoCode/Waypoint

Declaration

```
public List<Database.Waypoint> GetWaypoints(List<Database.DataRecord> NavData, string RegionCode, string WptIcaoCode, string WptIdent)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RegionCode	Specific RegionCode or ENRT for enroute or * for any
System.String	WptIcaoCode	Specific IcaoCode or * for any
System.String	WptIdent	Specific WptIdent or * for any

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.Waypoint>	

GetWaypointsSortedByDist(List<Database.DataRecord>, String, String, String, DataTypes.vLatLon, Single)

Get list of Waypoint records for a specific RegionCode/IcaoCode/Waypoint Ident sorted in distance relative to a specific Lat/Lon position

Declaration

```
public SortedList<float, Database.Waypoint> GetWaypointsSortedByDist(List<Database.DataRecord> NavData, string RegionCode, string WptIcaoCode, string WptIdent, DataTypes.vLatLon Pos, float DistMax = 3.40282347E+38F)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
System.String	RegionCode	Specific RegionCode or ENRT for enroute or * for any

TYPE	NAME	DESCRIPTION
System.String	WptIcaoCode	Specific IcaoCode or * for any
System.String	WptIdent	Specific WptIdent (* not allowed)
FlightAhead.Support.DataTypes.vLatLon	Pos	Specific Lat/Lon position
System.Single	DistMax	Maximum distance in NM

Returns

TYPE	DESCRIPTION
System.Collections.Generic.SortedList<System.Single, Database.Waypoint>	

ReadData(String, List<Database.Area>, String, String, String, String, Boolean)

Returns a List of DataRecord items corresponding to the specified Section/SubSection codes as per Table 5-1 in the Arinc 424-20 specification

Declaration

```
public List<Database.DataRecord> ReadData(string FileName, List<Database.Area> Areas, string Section, string SubSection, string IcaoCode, string AirportIdent, bool Verbose)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	FileName	
System.Collections.Generic.List<Database.Area>	Areas	
System.String	Section	String of Section Codes to return, or "*" for all
System.String	SubSection	String of SubSection Codes to return, or "*" for all
System.String	IcaoCode	For filtering on IcaoCode (NavIcaoCode for Navaids), or empty string to select all
System.String	AirportIdent	For records that contain an AirportIdent, give a specific Airport to select or empty string to select all
System.Boolean	Verbose	

Returns

TYPE	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	List of DataRecord's

Remarks

Use methods GetXXX to further downselect and filter the required data from the read list

Examples

```
ARINC 424-20 Table 5-1 Page 119

SectionCode/SubsectionCode:

A   MORA
        S Grid MORA
D   Navaid
        Blank VHF Navaid
        B NDB Navaid
        T TACAN Duplicates
E   Enroute
        A Waypoints
        M Airway Markers
        P Holding Patterns
        R Airways and Routes
        S Special Activity Areas
        T Preferred Routes
        U Airway Restrictions
        V Communications
H Heliport
        A Pads
        C Terminal Waypoints
        D SIDs
        E STARs
        F Approach Procedures
        K TAA
        S MSA
        P SBAS Path Point
        V Communications
P Airport
        A Reference Points
        B Gates
        C Terminal Waypoints
        D SIDs
        E STARs
        F Approach Procedures
        G Runways
        I Localizer/Glide Slope
        K TAA
        L MLS
        M Localizer Marker
        N Terminal NDB
        P SBAS Path Point
        Q GBAS Path Point
        R Flt Planning ARR/DEP
        S MSA
        T GLS Station
        V Communications
R Company Routes
        Blank Company Routes (Master Airline File)
        A Alternate Records
        H Helicopter operation Routes (Master Helicopter File)
T Tables
        C Cruising Tables
        G Geographical Reference
        N RNAV Name Table
        V Communication Type
U Airspace
        C Controlled Airspace
        F FIR/UIR
        R Restrictive Airspace
```

Resolve(List<Database.DataRecord>, Database.AirportLocGs)

Resolve all the linked data objects in the AirportLocGs data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.AirportLocGs ils)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.AirportLocGs	ils	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Resolve(List<Database.DataRecord>, Database.AirportMsa)

Resolve all the linked data objects in the AirwayMsa data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.AirportMsa leg)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.AirportMsa	leg	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Resolve(List<Database.DataRecord>, Database.AirportRunway)

Resolve all the linked data objects in the AirportRunway data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.AirportRunway rwy)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.AirportRunway	rwy	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Resolve(List<Database.DataRecord>, Database.AirportSidStarAppr)

Resolve all the linked data objects in the AirportSidStarAppr data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.AirportSidStarAppr leg)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.AirportSidStarAppr	leg	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Resolve(List<Database.DataRecord>, Database.Airway)

Resolve all the linked data objects in the Airway data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.Airway leg)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.Airway	leg	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Resolve(List<Database.DataRecord>, Database.HoldingPattern)

Resolve all the linked data objects in the HoldingPattern data record

Declaration

```
public bool Resolve(List<Database.DataRecord> NavData, Database.HoldingPattern leg)
```

Parameters

TYPE	NAME	DESCRIPTION
System.Collections.Generic.List<Database.DataRecord>	NavData	Pre-cached database DataRecords read using ReadData(String, List<Database.Area>, String, String, String, String, Boolean)
Database.HoldingPattern	leg	

Returns

TYPE	DESCRIPTION
System.Boolean	Bool indicating if the resolve was succesfull or not

Class Database.AirportComs

4.1.14 Airport Communications Records (PV)

Inheritance

System.Object
Database.DataRecord
Database.AirportComs

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportComs : Database.DataRecord
```

Constructors

AirportComs(String, String)

Declaration

```
public AirportComs(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

Narrative

Declaration

```
public List<string> Narrative
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AltitudeDescriptionCode

Declaration

```
public string AltitudeDescriptionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CallSigns

Declaration

```
public string CallSigns { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationAltitude1

Declaration

```
public string CommunicationAltitude1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationAltitude2

Declaration

```
public string CommunicationAltitude2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationClass

Declaration

```
public string CommunicationClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationDistance

Declaration

```
public string CommunicationDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationsFreq

Declaration

```
public string CommunicationsFreq { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationTypes

Declaration

```
public string CommunicationTypes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DistanceDescriptionCode

Declaration

```
public string DistanceDescriptionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

FacilityICAO

Declaration

```
public string FacilityICAO { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilitySectionCode

Declaration

```
public string FacilitySectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilitySubsectionCode

Declaration

```
public string FacilitySubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FrequencyUnits

Declaration

```
public string FrequencyUnits { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GuardOrTransmit

Declaration

```
public string GuardOrTransmit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

H24Indicator

Declaration

```
public string H24Indicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Latitude

Declaration

```
public string Latitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

Longitude

Declaration

```
public string Longitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Modulation

Declaration

```
public string Modulation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MultiSectorIndicator

Declaration

```
public string MultiSectorIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Pos

Declaration

```
public DataTypes.vLatLon Pos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

RadarUnits

Declaration

```
public string RadarUnits { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReceiveFrequency

Declaration

```
public string ReceiveFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacility

Declaration

```
public string RemoteFacility { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilityIcao

Declaration

```
public string RemoteFacilityIcao { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilitySectionCode

Declaration

```
public string RemoteFacilitySectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilitySubsectionCode

Declaration

```
public string RemoteFacilitySubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SectorFacility

Declaration

```
public string SectorFacility { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Sectorization

Declaration

```
public string Sectorization { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ServiceIndicator

Declaration

```
public string ServiceIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SignalEmission

Declaration

```
public string SignalEmission { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransmitFrequency

Declaration

```
public string TransmitFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransmitterLatitude

Declaration

```
public string TransmitterLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

TransmitterLongitude

Declaration

```
public string TransmitterLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

TransmitterPos

Declaration

```
public DataTypes.vLatLon TransmitterPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportGate

4.1.8 Airport Gate Records (PB)

Inheritance

System.Object
Database.DataRecord
Database.AirportGate

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportGate : Database.DataRecord
```

Constructors

AirportGate(String, String)

Declaration

```
public AirportGate(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GateIdentifier

Declaration

```
public string GateIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GateLatitude

Declaration

```
public string GateLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

GateLongitude

Declaration

```
public string GateLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

GatePos

Declaration

```
public DataTypes.vLatLon GatePos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportGls

4.1.29 GLS Record (PT)

Inheritance

System.Object
Database.DataRecord
Database.AirportGls

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportGls : Database.DataRecord
```

Constructors

AirportGls(String, String)

Declaration

```
public AirportGls(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlsApproachBearing

Declaration

```
public string GlsApproachBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagCourse(String) to convert

GlsApproachSlope

Declaration

```
public string GlsApproachSlope { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAngleDeg(String) to convert

GlsCategory

Declaration

```
public string GlsCategory { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlsChannel

Declaration

```
public string GlsChannel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlsRefPathIdentifier

Declaration

```
public string GlsRefPathIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlsStationIdent

Declaration

```
public string GlsStationIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ServiceVolumeRadius

Declaration

```
public string ServiceVolumeRadius { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StationElevation

Declaration

```
public string StationElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

StationElevationWgs84

Declaration

```
public string StationElevationWgs84 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StationLatitude

Declaration

```
public string StationLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

StationLongitude

Declaration

```
public string StationLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

StationPos

Declaration

```
public DataTypes.vLatLon StationPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

StationType

Declaration

```
public string StationType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TdmaSlots

Declaration

```
public string TdmaSlots { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportLocGs

4.1.11 Airport and Heliport Localizer and Glide Slope Records (PI)

Inheritance

System.Object
Database.DataRecord
Database.AirportLocGs

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportLocGs : Database.DataRecord
```

Constructors

AirportLocGs(String, String)

Declaration

```
public AirportLocGs(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

Rwy

Declaration

```
public Database.AirportRunway Rwy
```

Field Value

TYPE	DESCRIPTION
Database.AirportRunway	

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagS

Declaration

```
public Database.DataRecord.Tags TagS
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachRouteIdent1

Declaration

```
public string ApproachRouteIdent1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachRouteIdent2

Declaration

```
public string ApproachRouteIdent2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachRouteIdent3

Declaration

```
public string ApproachRouteIdent3 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachRouteIdent4

Declaration

```
public string ApproachRouteIdent4 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachRouteIdent5

Declaration

```
public string ApproachRouteIdent5 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityCharacteristics

Declaration

```
public string FacilityCharacteristics { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlideSlopeAngle

Declaration

```
public string GlideSlopeAngle { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAngleDeg(String) to convert

GlideSlopeBeamWidth

Declaration

```
public string GlideSlopeBeamWidth { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlideSlopeElevation

Declaration

```
public string GlideSlopeElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

GlideSlopeHeightAtLandingThreshold

Declaration

```
public string GlideSlopeHeightAtLandingThreshold { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFt(String) to convert

GlideSlopeLatitude

Declaration

```
public string GlideSlopeLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

GlideSlopeLongitude

Declaration

```
public string GlideSlopeLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

GlideSlopePos

Declaration

```
public DataTypes.vLatLon GlideSlopePos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

GlideSlopePosition

Declaration

```
public string GlideSlopePosition { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ILSCategory

Declaration

```
public string ILSCategory { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerBearing

Declaration

```
public string LocalizerBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagBearing(String) to convert

LocalizerBearingSource

Declaration

```
public string LocalizerBearingSource { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerFrequency

Declaration

```
public string LocalizerFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFreqVhf(String) to convert

LocalizerIdentifier

Declaration

```
public string LocalizerIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerLatitude

Declaration

```
public string LocalizerLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

LocalizerLongitude

Declaration

```
public string LocalizerLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

LocalizerPos

Declaration

```
public DataTypes.vLatLon LocalizerPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

LocalizerPosition

Declaration

```
public string LocalizerPosition { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerPositionReference

Declaration

```
public string LocalizerPositionReference { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerTrueBearing

Declaration

```
public string LocalizerTrueBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToTrueBearing(String) to convert

LocalizerWidth

Declaration

```
public string LocalizerWidth { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedRwy

Declaration

```
public bool ResolvedRwy { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StationDeclination

Declaration

```
public string StationDeclination { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SupportingFacilityIcaoCode

Declaration

```
public string SupportingFacilityIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SupportingFacilityId

Declaration

```
public string SupportingFacilityId { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SupportingFacilitySectionCode

Declaration

```
public string SupportingFacilitySectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SupportingFacilitySubsectionCode

Declaration

```
public string SupportingFacilitySubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportLocMarker

4.1.13 Airport and Heliport Localizer Marker Records (PM)

Inheritance

System.Object
Database.DataRecord
Database.AirportLocMarker

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportLocMarker : Database.DataRecord
```

Constructors

AirportLocMarker(String, String)

Declaration

```
public AirportLocMarker(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerIdentifier

Declaration

```
public string LocalizerIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocatorClass

Declaration

```
public string LocatorClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateLocatorClass(String) to annotate

LocatorFacilityCharacteristics

Declaration

```
public string LocatorFacilityCharacteristics { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocatorFrequency

Declaration

```
public string LocatorFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocatorIdentifier

Declaration

```
public string LocatorIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocatorLatitude

Declaration

```
public string LocatorLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

LocatorLongitude

Declaration

```
public string LocatorLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

LocatorPos

Declaration

```
public DataTypes.vLatLon LocatorPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerLatitude

Declaration

```
public string MarkerLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

MarkerLongitude

Declaration

```
public string MarkerLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MarkerPos

Declaration

```
public DataTypes.vLatLon MarkerPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

MarkerType

Declaration

```
public string MarkerType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MinorAxisBearing

Declaration

```
public string MinorAxisBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportMsa

4.1.20 Airport MSA (Minimum Sector Altitude) Records (PS)

Inheritance

System.Object
Database.DataRecord
Database.AirportMsa

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportMsa : Database.DataRecord
```

Constructors

AirportMsa(String, String)

Declaration

```
public AirportMsa(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

MsaCenterArpt

Declaration

```
public Database.AirportReferencePoint MsaCenterArpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

MsaCenterNavNdb

Declaration

```
public Database.NavaidNdb MsaCenterNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

MsaCenterNavVhf

Declaration

```
public Database.NavaidVhf MsaCenterNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

MsaCenterRwy

Declaration

```
public Database.AirportRunway MsaCenterRwy
```

Field Value

TYPE	DESCRIPTION
Database.AirportRunway	

MsaCenterWpt

Declaration

```
public Database.Waypoint MsaCenterWpt
```

Field Value

TYPE	DESCRIPTION
Database.Waypoint	

Sectors

Declaration

```
public Database.AirportMsa.Sector[] Sectors
```

Field Value

TYPE	DESCRIPTION
Database.AirportMsa.Sector[]	

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticTrueIndicator

Declaration

```
public string MagneticTrueIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MsaCenter

Declaration

```
public string MsaCenter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MsaCenterIcaoCode

Declaration

```
public string MsaCenterIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MsaCenterSectionCode

Declaration

```
public string MsaCenterSectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MsaCenterSubsectionCode

Declaration

```
public string MsaCenterSubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MultipleCode

Declaration

```
public string MultipleCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Radius

Declaration

```
public string Radius { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedMsaCenter

Declaration

```
public bool ResolvedMsaCenter { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.AirportMsa.Sector

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Sector
```

Properties

Altitude

Declaration

```
public string Altitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMsaFt(String) to convert

Bearing

Declaration

```
public string Bearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.AirportPathPoint

4.1.28 Path Point Record (PP)

Inheritance

System.Object
Database.DataRecord
Database.AirportPathPoint

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportPathPoint : Database.DataRecord
```

Constructors

AirportPathPoint(String, String)

Declaration

```
public AirportPathPoint(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagE

Declaration

```
public Database.DataRecord.Tags TagE
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIdent

Declaration

```
public string AirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachPerformanceDesignator

Declaration

```
public string ApproachPerformanceDesignator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachProcedureIdent

Declaration

```
public string ApproachProcedureIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ApproachTypeIdentifier

Declaration

```
public string ApproachTypeIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CourseWidthAtThreshold

Declaration

```
public string CourseWidthAtThreshold { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FasDataCrcRemainder

Declaration

```
public string FasDataCrcRemainder { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FlightPathAlignmentPointLatitude

Declaration

```
public string FlightPathAlignmentPointLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FlightPathAlignmentPointLongitude

Declaration

```
public string FlightPathAlignmentPointLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FlightPathAlignmentPointPos

Declaration

```
public DataTypes.vLatLon FlightPathAlignmentPointPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FpapEllipsoidHeight

Declaration

```
public string FpapEllipsoidHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FpapOrthometricHeight

Declaration

```
public string FpapOrthometricHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GlidePathAngle

Declaration

```
public string GlidePathAngle { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GnssChannelNumber

Declaration

```
public string GnssChannelNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

HAL

Declaration

```
public string HAL { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

HelicopterProcedureCourse

Declaration

```
public string HelicopterProcedureCourse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LandingThresholdPointLatitude

Declaration

```
public string LandingThresholdPointLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LandingThresholdPointLongitude

Declaration

```
public string LandingThresholdPointLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LandingThresholdPointPos

Declaration

```
public DataTypes.vLatLon LandingThresholdPointPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

LengthOffset

Declaration

```
public string LengthOffset { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LtpEllipsoidHeight

Declaration

```
public string LtpEllipsoidHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LtpOrthometricHeight

Declaration

```
public string LtpOrthometricHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

OperationType

Declaration

```
public string OperationType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PathPointTch

Declaration

```
public string PathPointTch { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReferencePathDataSelector

Declaration

```
public string ReferencePathDataSelector { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReferencePathIdentifier

Declaration

```
public string ReferencePathIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteIndicator

Declaration

```
public string RouteIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayOrHelipadIdentifier

Declaration

```
public string RunwayOrHelipadIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SbasServiceProviderIdentifier

Declaration

```
public string SbasServiceProviderIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TchUnitsIndicator

Declaration

```
public string TchUnitsIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VAL

Declaration

```
public string VAL { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportReferencePoint

4.1.7 Airport Records (PA)

Inheritance

System.Object
Database.DataRecord
Database.AirportReferencePoint

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportReferencePoint : Database.DataRecord
```

Constructors

AirportReferencePoint(String, String)

Declaration

```
public AirportReferencePoint(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportElevation

Declaration

```
public string AirportElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AirportName

Declaration

```
public string AirportName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AirportReferencePointLatitude

Declaration

```
public string AirportReferencePointLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

AirportReferencePointLongitude

Declaration

```
public string AirportReferencePointLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

AirportReferencePointPos

Declaration

```
public DataTypes.vLatLon AirportReferencePointPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

AtaIataDesignator

Declaration

```
public string AtaIataDesignator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControlledAirspaceAirportICAO

Declaration

```
public string ControlledAirspaceAirportICAO { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControlledAirspaceAirportIdent

Declaration

```
public string ControlledAirspaceAirportIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControlledAirspaceIndicator

Declaration

```
public string ControlledAirspaceIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DaylightIndicator

Declaration

```
public string DaylightIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirIdentifier

Declaration

```
public string FirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode2

Declaration

```
public string IcaoCode2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IfrCapability

Declaration

```
public string IfrCapability { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LongestRunway

Declaration

```
public string LongestRunway { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LongestRunwaySurfaceCode

Declaration

```
public string LongestRunwaySurfaceCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticTrueIndicator

Declaration

```
public string MagneticTrueIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PublicMilitaryIndicator

Declaration

```
public string PublicMilitaryIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecommendedNavaid

Declaration

```
public string RecommendedNavaid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SpeedLimit

Declaration

```
public string SpeedLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SpeedLimitAltitude

Declaration

```
public string SpeedLimitAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEnd

Declaration

```
public string StartEnd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeZone

Declaration

```
public string TimeZone { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransitionLevel

Declaration

```
public string TransitionLevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransitionsAltitude

Declaration

```
public string TransitionsAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UirIdentifier

Declaration

```
public string UirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportRunway

4.1.10 Runway Records (PG)

Inheritance

System.Object
Database.DataRecord
Database.AirportRunway

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportRunway : Database.DataRecord
```

Constructors

AirportRunway(String, String)

Declaration

```
public AirportRunway(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

Arpt

Declaration

```
public Database.AirportReferencePoint Arpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

Ils1

Declaration

```
public Database.AirportLocGs Ils1
```

Field Value

TYPE	DESCRIPTION
Database.AirportLocGs	

Ils2

Declaration

```
public Database.AirportLocGs Ils2
```

Field Value

TYPE	DESCRIPTION
Database.AirportLocGs	

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagS

Declaration

```
public Database.DataRecord.Tags TagS
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DisplacedThresholdDistance

Declaration

```
public string DisplacedThresholdDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LandingThresholdElevation

Declaration

```
public string LandingThresholdElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

LocalizerMlsGlsCategoryClass

Declaration

```
public string LocalizerMlsGlsCategoryClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LocalizerMlsGlsRefPathIdentifier

Declaration

```
public string LocalizerMlsGlsRefPathIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LtpEllipsoidHeight

Declaration

```
public string LtpEllipsoidHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedArpt

Declaration

```
public bool ResolvedArpt { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ResolvedIls1

Declaration

```
public bool ResolvedIls1 { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ResolvedIls2

Declaration

```
public bool ResolvedIls2 { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RunwayDescription

Declaration

```
public string RunwayDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayGradient

Declaration

```
public string RunwayGradient { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RunwayLatitude

Declaration

```
public string RunwayLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

RunwayLength

Declaration

```
public string RunwayLength { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFt(String) to convert

RunwayLongitude

Declaration

```
public string RunwayLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

RunwayMagneticBearing

Declaration

```
public string RunwayMagneticBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagBearing(String) to convert

RunwayPos

Declaration

```
public DataTypes.vLatLon RunwayPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

RunwayTrueBearing

Declaration

```
public string RunwayTrueBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToTrueBearing(String) to convert

RunwayWidth

Declaration

```
public string RunwayWidth { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFt(String) to convert

SecondLocalizerMlsGlsCategoryClass

Declaration

```
public string SecondLocalizerMlsGlsCategoryClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SecondLocalizerMlsGlsRefPathIdent

Declaration

```
public string SecondLocalizerMlsGlsRefPathIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Stopway

Declaration

```
public string Stopway { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TchValueIndicator

Declaration

```
public string TchValueIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TdzeLocation

Declaration

```
public string TdzeLocation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ThresholdCrossingHeight

Declaration

```
public string ThresholdCrossingHeight { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFt(String) to convert

TouchdownZoneElevation

Declaration

```
public string TouchdownZoneElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TrueBearingSource

Declaration

```
public string TrueBearingSource { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirportSidStarAppr

4.1.9 Airport SID/STAR/Approach (PD, PE and PF)

Inheritance

System.Object
Database.DataRecord
Database.AirportSidStarAppr

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirportSidStarAppr : Database.DataRecord
```

Constructors

AirportSidStarAppr(String, String)

Declaration

```
public AirportSidStarAppr(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

CenterFixArpt

Declaration

```
public Database.AirportReferencePoint CenterFixArpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

CenterFixMsa

Declaration

```
public Database.AirportMsa CenterFixMsa
```

Field Value

TYPE	DESCRIPTION
Database.AirportMsa	

CenterFixNavNdb

Declaration

```
public Database.NavaidNdb CenterFixNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

CenterFixNavVhf

Declaration

```
public Database.NavaidVhf CenterFixNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

CenterFixWpt

Declaration

```
public Database.Waypoint CenterFixWpt
```

Field Value

TYPE	DESCRIPTION
Database.Waypoint	

FixArpt

Declaration

```
public Database.AirportReferencePoint FixArpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

FixNavNdb

Declaration

```
public Database.NavaidNdb FixNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

FixNavVhf

Declaration

```
public Database.NavaidVhf FixNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

FixRwy

Declaration

```
public Database.AirportRunway FixRwy
```

Field Value

TYPE	DESCRIPTION
Database.AirportRunway	

FixWpt

Declaration

```
public Database.Waypoint FixWpt
```

Field Value

TYPE	DESCRIPTION
Database.Waypoint	

ProcedureReferencedFix1

Declaration

```
public Database.AirportSidStarAppr.ProcedureReferencedFix ProcedureReferencedFix1
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.ProcedureReferencedFix	

ProcedureReferencedFix2

Declaration

```
public Database.AirportSidStarAppr.ProcedureReferencedFix ProcedureReferencedFix2
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.ProcedureReferencedFix	

ProcedureReferencedFix3

Declaration

```
public Database.AirportSidStarAppr.ProcedureReferencedFix ProcedureReferencedFix3
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.ProcedureReferencedFix	

ProcedureReferencedFix4

Declaration

```
public Database.AirportSidStarAppr.ProcedureReferencedFix ProcedureReferencedFix4
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.ProcedureReferencedFix	

RecdNavLocGs

Declaration

```
public Database.AirportLocGs RecdNavLocGs
```

Field Value

TYPE	DESCRIPTION
Database.AirportLocGs	

RecdNavNdb

Declaration

```
public Database.NavaidNdb RecdNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

RecdNavVhf

Declaration

```
public Database.NavaidVhf RecdNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

RnpAuthorization1

Declaration

```
public Database.AirportSidStarAppr.Authorization RnpAuthorization1
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.Authorization	

RnpAuthorization2

Declaration

```
public Database.AirportSidStarAppr.Authorization RnpAuthorization2
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.Authorization	

RnpAuthorization3

Declaration

```
public Database.AirportSidStarAppr.Authorization RnpAuthorization3
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.Authorization	

RnpAuthorization4

Declaration

```
public Database.AirportSidStarAppr.Authorization RnpAuthorization4
```

Field Value

TYPE	DESCRIPTION
Database.AirportSidStarAppr.Authorization	

TagE

Declaration

```
public Database.DataRecord.Tags TagE
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagW

Declaration

```
public Database.DataRecord.Tags TagW
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIdentifier

Declaration

```
public string AirportIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Altitude

Declaration

```
public string Altitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltitude(String) to convert

Altitude2

Declaration

```
public string Altitude2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltitude(String) to convert

AltitudeDescription

Declaration

```
public string AltitudeDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcRadius

Declaration

```
public string ArcRadius { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToArcRadiusNM(String) to convert

AtcIndicator

Declaration

```
public string AtcIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CatARadii

Declaration

```
public string CatARadii { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CatBRadii

Declaration

```
public string CatBRadii { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CatCRadii

Declaration

```
public string CatCRadii { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CatDRadii

Declaration

```
public string CatDRadii { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixIcaoCode

Declaration

```
public string CenterFixIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixOrTaaProcedureTurnIndicator

Declaration

```
public string CenterFixOrTaaProcedureTurnIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixPos

Declaration

```
public DataTypes.vLatLon CenterFixPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

CenterFixPosLat

Declaration

```
public string CenterFixPosLat { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixPosLon

Declaration

```
public string CenterFixPosLon { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixSectionCode

Declaration

```
public string CenterFixSectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CenterFixSubsectionCode

Declaration

```
public string CenterFixSubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExtERouteQualifier1

Declaration

```
public string ExtERouteQualifier1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExtERouteQualifier2

Declaration

```
public string ExtERouteQualifier2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExtRnp

Declaration

```
public string ExtRnp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExtWRouteQualifier1

Declaration

```
public string ExtWRouteQualifier1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExtWRouteQualifier2

Declaration

```
public string ExtWRouteQualifier2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FasBlockProvidedAuthorized

Declaration

```
public string FasBlockProvidedAuthorized { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FasBlockProvidedLevOfServiceName

Declaration

```
public string FasBlockProvidedLevOfServiceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIcaoCode

Declaration

```
public string FixIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIdentifier

Declaration

```
public string FixIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixPos

Declaration

```
public DataTypes.vLatLon FixPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FixPosLat

Declaration

```
public string FixPosLat { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixPosLon

Declaration

```
public string FixPosLon { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSectionCode

Declaration

```
public string FixSectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSubsectionCode

Declaration

```
public string FixSubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GnssFmsIndication

Declaration

```
public string GnssFmsIndication { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

HasRwyAsWpt

Check if the leg has a Runway as Waypoint

Declaration

```
public bool HasRwyAsWpt { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IsAPPR

Check is this Leg belongs to a APPROACH

Declaration

```
public bool IsAPPR { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsFlyOver

Check if the leg is a FlyOver waypoint Any waypoint (including Navaid and airport) that must be over flown before establishing on the following leg.

Declaration

```
public bool IsFlyOver { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsMAP

Check if the leg is the first leg of a Missed Approach Procedure (MAP)

Declaration

```
public bool IsMAP { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsSID

Check is this Leg belongs to a SID

Declaration

```
public bool IsSID { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsSTAR

Check is this Leg belongs to a STAR

Declaration

```
public bool IsSTAR { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

LegDistance

Declaration

```
public string LegDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LegInboundOutboundIndicator

Declaration

```
public string LegInboundOutboundIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LnavAuthorized

Declaration

```
public string LnavAuthorized { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LnavLevelOfServiceName

Declaration

```
public string LnavLevelOfServiceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LnavVnavAuthorized

Declaration

```
public string LnavVnavAuthorized { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LnavVnavLevelOfServiceName

Declaration

```
public string LnavVnavLevelOfServiceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticCourse

Declaration

```
public string MagneticCourse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagCourse(String) to convert

MultipleCodeOrTaaSectorIdentifier

Declaration

```
public string MultipleCodeOrTaaSectorIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

PathAndTermination

Declaration

```
public string PathAndTermination { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotatePathAndTermination(String) to annotate

ProcedureCategory

Declaration

```
public string ProcedureCategory { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcedureDesignAircraftCategoryOrType

Declaration

```
public string ProcedureDesignAircraftCategoryOrType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcedureDesignMagVar

Declaration

```
public string ProcedureDesignMagVar { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcedureDesignMagVarIndicator

Declaration

```
public string ProcedureDesignMagVarIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ProcedureTch

Declaration

```
public string ProcedureTch { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFt(String) to convert

RecdNavIcaoCode

Declaration

```
public string RecdNavIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecdNavPos

Declaration

```
public DataTypes.vLatLon RecdNavPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

RecdNavPosLat

Declaration

```
public string RecdNavPosLat { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecdNavPosLon

Declaration

```
public string RecdNavPosLon { get; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecdNavSection

Declaration

```
public string RecdNavSection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecdNavSubsection

Declaration

```
public string RecdNavSubsection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecommendedNavaid

Declaration

```
public string RecommendedNavaid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedCenterFix

Declaration

```
public bool ResolvedCenterFix { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ResolvedFix

Declaration

```
public bool ResolvedFix { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ResolvedRecdNav

Declaration

```
public bool ResolvedRecdNav { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Rho

Declaration

```
public string Rho { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToNM(String) to convert

Rnp

Declaration

```
public string Rnp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteDistanceHoldingDistanceOrTime

Declaration

```
public string RouteDistanceHoldingDistanceOrTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToDistanceOrTime(String) to convert

RouteQualifier1

Declaration

```
public string RouteQualifier1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteQualifier2

Declaration

```
public string RouteQualifier2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteType

Declaration

```
public string RouteType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateRouteType(String, String, String) to annotate

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

SidStarApproachIdentifier

Declaration

```
public string SidStarApproachIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SpeedLimit

Declaration

```
public string SpeedLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SpeedLimitDescription

Declaration

```
public string SpeedLimitDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEndIndicator

Declaration

```
public string StartEndIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Theta

Declaration

```
public string Theta { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToDegrees(String) to convert

TransitionAltitude

Declaration

```
public string TransitionAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransitionIdentifier

Declaration

```
public string TransitionIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TurnDirection

Declaration

```
public string TurnDirection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TurnDirectionValid

Declaration

```
public string TurnDirectionValid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VerticalAngle

Declaration

```
public string VerticalAngle { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VerticalScaleFactor

Declaration

```
public string VerticalScaleFactor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WaypointDescriptionCode

Declaration

```
public string WaypointDescriptionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateWaypointDescriptionCode(String) to annotate

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.AirportSidStarAppr.Authorization

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Authorization
```

Properties

Authorized

Declaration

```
public string Authorized { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LevelOfServicevalue

Declaration

```
public string LevelOfServicevalue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Struct Database.AirportSidStarAppr.ProcedureReferencedFix

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct ProcedureReferencedFix
```

Properties

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Ident

Declaration

```
public string Ident { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SectionCode

Declaration

```
public string SectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SubsectionCode

Declaration

```
public string SubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.Airway

4.1.6 Enroute Airways Records (ER)

Inheritance

System.Object
Database.DataRecord
Database.Airway

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Airway : Database.DataRecord
```

Constructors

Airway(String, String)

Declaration

```
public Airway(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

FixArpt

Declaration

```
public Database.AirportReferencePoint FixArpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

FixNavNdb

Declaration

```
public Database.NavaidNdb FixNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

FixNavVhf

Declaration

```
public Database.NavaidVhf FixNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

FixWpt

Declaration

```
public Database.Waypoint FixWpt
```

Field Value

TYPE	DESCRIPTION
Database.Waypoint	

RecdNavNdb

Declaration

```
public Database.NavaidNdb RecdNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

RecdNavVhf

Declaration

```
public Database.NavaidVhf RecdNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

RestrictedAirspace1

Declaration

```
public Database.Airway.RestrictedAirspace RestrictedAirspace1
```

Field Value

TYPE	DESCRIPTION
Database.Airway.RestrictedAirspace	

RestrictedAirspace2

Declaration

```
public Database.Airway.RestrictedAirspace RestrictedAirspace2
```

Field Value

TYPE	DESCRIPTION
Database.Airway.RestrictedAirspace	

RestrictedAirspace3

Declaration

```
public Database.Airway.RestrictedAirspace RestrictedAirspace3
```

Field Value

TYPE	DESCRIPTION
Database.Airway.RestrictedAirspace	

RestrictedAirspace4

Declaration

```
public Database.Airway.RestrictedAirspace RestrictedAirspace4
```

Field Value

TYPE	DESCRIPTION
Database.Airway.RestrictedAirspace	

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

BoundaryCode

Declaration

```
public string BoundaryCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToArea(String) to convert

CruiseTableIndicator

Declaration

```
public string CruiseTableIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DirectionRestriction

Declaration

```
public string DirectionRestriction { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

EuIndicator

Declaration

```
public string EuIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIcaoCode

Declaration

```
public string FixIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIdentifier

Declaration

```
public string FixIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixRadiusTransitionIndicator

Declaration

```
public string FixRadiusTransitionIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSectionCode

Declaration

```
public string FixSectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSubsectionCode

Declaration

```
public string FixSubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

InboundMagneticCourse

Declaration

```
public string InboundMagneticCourse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagCourse(String) to convert

IsBackward

Checks if the Enroute Airway leg has Backward Directional Restriction

Declaration

```
public bool IsBackward { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsBiDir

Checks if the Enroute Airway leg has no Directional Restriction (i.e. is Bi Directional)

Declaration

```
public bool IsBiDir { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsEnd

Checks if the Waypoint is the end of the Enroute Airway

Declaration

```
public bool IsEnd { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsForward

Checks if the Enroute Airway leg has Forward Directional Restriction

Declaration

```
public bool IsForward { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Level

Declaration

```
public string Level { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MaximumAltitude

Declaration

```
public string MaximumAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltMax(String) to convert

MinimumAltitude

Declaration

```
public string MinimumAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltitude(String) to convert

MinimumAltitude2

Declaration

```
public string MinimumAltitude2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltitude(String) to convert

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

OutboundMagneticCourse

Declaration

```
public string OutboundMagneticCourse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagCourse(String) to convert

RecdNavIcaoCode

Declaration

```
public string RecdNavIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RecommendedNavaid

Declaration

```
public string RecommendedNavaid { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedFix

Declaration

```
public bool ResolvedFix { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

ResolvedRecdNav

Declaration

```
public bool ResolvedRecdNav { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RestrictedAirspaceLinkContinuation

Declaration

```
public string RestrictedAirspaceLinkContinuation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Rho

Declaration

```
public string Rho { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToNM(String) to convert

Rnp

Declaration

```
public string Rnp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteDistanceFrom

Declaration

```
public string RouteDistanceFrom { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToDistanceOrTime(String) to convert

RouteIdentifier

Declaration

```
public string RouteIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteType

Declaration

```
public string RouteType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateRouteType(String, String, String) to annotate

RvsmMinimumLevel

Declaration

```
public string RvsmMinimumLevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

StartEnd

Declaration

```
public string StartEnd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Theta

Declaration

```
public string Theta { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToDegrees(String) to convert

VerticalScaleFactor

Declaration

```
public string VerticalScaleFactor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VsfRvsmMaximumLevel

Declaration

```
public string VsfRvsmMaximumLevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WaypointDescriptionCode

Declaration

```
public string WaypointDescriptionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateWaypointDescriptionCode(String) to annotate

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.Airway.RestrictedAirspace

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct RestrictedAirspace
```

Properties

Designation

Declaration

```
public string Designation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MultipleCode

Declaration

```
public string MultipleCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Type

Declaration

```
public string Type { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.AirwayMarker

4.1.15 Airways Marker Records (EM)

Inheritance

System.Object
Database.DataRecord
Database.AirwayMarker

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirwayMarker : Database.DataRecord
```

Constructors

AirwayMarker(String, String)

Declaration

```
public AirwayMarker(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Properties

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerCode

Declaration

```
public string MarkerCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerIdentifier

Declaration

```
public string MarkerIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerLatitude

Declaration

```
public string MarkerLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

MarkerLongitude

Declaration

```
public string MarkerLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MarkerName

Declaration

```
public string MarkerName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerPos

Declaration

```
public DataTypes.vLatLon MarkerPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

MarkerPower

Declaration

```
public string MarkerPower { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MarkerShape

Declaration

```
public string MarkerShape { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MinorAxis

Declaration

```
public string MinorAxis { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.AirwayRestriction

4.1.21 Enroute Airways Restriction Records (EU)

Inheritance

System.Object
Database.DataRecord
Database.AirwayRestriction
Database.AirwayRestrictionAltitudeExclusion
Database.AirwayRestrictionCruisingTableReplacement
Database.AirwayRestrictionNoteRestriction
Database.AirwayRestrictionSeasonalClosure

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public abstract class AirwayRestriction : Database.DataRecord
```

Constructors

AirwayRestriction(String, String)

Declaration

```
public AirwayRestriction(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

EndFix

Declaration

```
public Database.AirwayRestriction.Fix EndFix
```

Field Value

TYPE	DESCRIPTION
Database.AirwayRestriction.Fix	

StartFix

Declaration

```
public Database.AirwayRestriction.Fix StartFix
```

Field Value

TYPE	DESCRIPTION
Database.AirwayRestriction.Fix	

Properties

EndDate

Declaration

```
public string EndDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RestrictionIdentifier

Declaration

```
public string RestrictionIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RestrictionType

Declaration

```
public string RestrictionType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteIdentifier

Declaration

```
public string RouteIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartDate

Declaration

```
public string StartDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public virtual string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.AirwayRestriction.Fix

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Fix
```

Fields

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

Identifier

Declaration

```
public string Identifier
```

Field Value

TYPE	DESCRIPTION
System.String	

SectionCode

Declaration

```
public string SectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

SubSectionCode

Declaration

```
public string SubSectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

Class Database.AirwayRestrictionAltitudeExclusion

4.1.21.1 Enroute Airways Restriction Altitude Exclusion Primary Records

Inheritance

System.Object
Database.DataRecord
Database.AirwayRestriction
Database.AirwayRestrictionAltitudeExclusion

Inherited Members

Database.AirwayRestriction.RouteIdentifier
Database.AirwayRestriction.RestrictionIdentifier
Database.AirwayRestriction.RestrictionType
Database.AirwayRestriction.StartFix
Database.AirwayRestriction.EndFix
Database.AirwayRestriction.StartDate
Database.AirwayRestriction.EndDate
Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirwayRestrictionAltitudeExclusion : Database.AirwayRestriction
```

Constructors

AirwayRestrictionAltitudeExclusion(String, String)

Declaration

```
public AirwayRestrictionAltitudeExclusion(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

Restrictions

Declaration

```
public Database.AirwayRestrictionAltitudeExclusion.Restriction[] Restrictions
```

Field Value

TYPE	DESCRIPTION
Database.AirwayRestrictionAltitudeExclusion.Restriction[]	

TimeOfOperation

Declaration

```
public string[] TimeOfOperation
```

Field Value

TYPE	DESCRIPTION
System.String[]	

Properties

ExclusionIndicator

Declaration

```
public string ExclusionIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UnitsOfAltitude

Declaration

```
public string UnitsOfAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public override string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Overrides

Database.AirwayRestriction.ToString(String)

Struct Database.AirwayRestrictionAltitudeExclusion.Restriction

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Restriction
```

Fields

BlockIndicator

Declaration

```
public string BlockIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

RestrictionAltitude

Declaration

```
public string RestrictionAltitude
```

Field Value

TYPE	DESCRIPTION
System.String	

Class Database.AirwayRestrictionCruisingTableReplacement

4.1.21C.1 Enroute Airways Restriction Cruising Table Replacement Primary Records

Inheritance

System.Object
Database.DataRecord
Database.AirwayRestriction
Database.AirwayRestrictionCruisingTableReplacement

Inherited Members

Database.AirwayRestriction.RouteIdentifier
Database.AirwayRestriction.RestrictionIdentifier
Database.AirwayRestriction.RestrictionType
Database.AirwayRestriction.StartFix
Database.AirwayRestriction.EndFix
Database.AirwayRestriction.StartDate
Database.AirwayRestriction.EndDate
Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirwayRestrictionCruisingTableReplacement : Database.AirwayRestriction
```

Constructors

AirwayRestrictionCruisingTableReplacement(String, String)

Declaration

```
public AirwayRestrictionCruisingTableReplacement(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TimeOfOperation

Declaration

```
public string[] TimeOfOperation
```

Field Value

TYPE	DESCRIPTION
System.String[]	

Properties

CruiseTableIdent

Declaration

```
public string CruiseTableIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public override string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Overrides

Database.AirwayRestriction.ToString(String)

Class Database.AirwayRestrictionNoteRestriction

4.1.21A.1 Enroute Airways Restriction Note Restriction Primary Records

Inheritance

System.Object
Database.DataRecord
Database.AirwayRestriction
Database.AirwayRestrictionNoteRestriction

Inherited Members

Database.AirwayRestriction.RouteIdentifier
Database.AirwayRestriction.RestrictionIdentifier
Database.AirwayRestriction.RestrictionType
Database.AirwayRestriction.StartFix
Database.AirwayRestriction.EndFix
Database.AirwayRestriction.StartDate
Database.AirwayRestriction.EndDate
Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirwayRestrictionNoteRestriction : Database.AirwayRestriction
```

Constructors

AirwayRestrictionNoteRestriction(String, String)

Declaration

```
public AirwayRestrictionNoteRestriction(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

RestrictionNotes

Declaration

```
public List<string> RestrictionNotes
```

Field Value

TYPE	DESCRIPTION
System.Collections.Generic.List<System.String>	

Methods

ToString(String)

Declaration

```
public override string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Overrides

Database.AirwayRestriction.ToString(String)

Class Database.AirwayRestrictionSeasonalClosure

4.1.21B.1 Enroute Airways Restriction Seasonal Closure Primary Records

Inheritance

System.Object
Database.DataRecord
Database.AirwayRestriction
Database.AirwayRestrictionSeasonalClosure

Inherited Members

Database.AirwayRestriction.RouteIdentifier
Database.AirwayRestriction.RestrictionIdentifier
Database.AirwayRestriction.RestrictionType
Database.AirwayRestriction.StartFix
Database.AirwayRestriction.EndFix
Database.AirwayRestriction.StartDate
Database.AirwayRestriction.EndDate
Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class AirwayRestrictionSeasonalClosure : Database.AirwayRestriction
```

Constructors

AirwayRestrictionSeasonalClosure(String, String)

Declaration

```
public AirwayRestrictionSeasonalClosure(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TimeOfOperation

Declaration

```
public string[] TimeOfOperation
```

Field Value

TYPE	DESCRIPTION
System.String[]	

Properties

CruiseTableIdent

Declaration

```
public string CruiseTableIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public override string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Overrides

Database.AirwayRestriction.ToString(String)

Enum Database.Area

5.3 Customer/Area Code(CUST/AREA)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public enum Area
```

Fields

NAME	DESCRIPTION
AFR	
CAN	
EEU	
EUR	
LAM	
MES	
PAC	
SAM	
SPA	
USA	

Class Database.ControlledAirspace

4.1.25 Controlled Airspace Records (UC)

Inheritance

System.Object
Database.DataRecord
Database.ControlledAirspace

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class ControlledAirspace : Database.DataRecord
```

Constructors

ControlledAirspace(String, String)

Declaration

```
public ControlledAirspace(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

LowerLimit

Declaration

```
public Database.ControlledAirspace.Limits LowerLimit
```

Field Value

TYPE	DESCRIPTION
Database.ControlledAirspace.Limits	

TagT

Declaration

```
public Database.DataRecord.Tags TagT
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TimeOfOperations

Declaration

```
public string[] TimeOfOperations
```

Field Value

TYPE	DESCRIPTION
System.String[]	

UpperLimit

Declaration

```
public Database.ControlledAirspace.Limits UpperLimit
```

Field Value

TYPE	DESCRIPTION
Database.ControlledAirspace.Limits	

Properties

AirspaceCenter

Declaration

```
public string AirspaceCenter { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AirspaceClassification

Declaration

```
public string AirspaceClassification { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AirspaceType

Declaration

```
public string AirspaceType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcBearing

Declaration

```
public string ArcBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcDistance

Declaration

```
public string ArcDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcOriginLatitude

Declaration

```
public string ArcOriginLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

ArcOriginLongitude

Declaration

```
public string ArcOriginLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

ArcOriginPos

Declaration

```
public DataTypes.vLatLon ArcOriginPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

BoundaryVia

Declaration

```
public string BoundaryVia { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControlledAirspaceName

Declaration

```
public string ControlledAirspaceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControllingAgency

Declaration

```
public string ControllingAgency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Latitude

Declaration

```
public string Latitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

Level

Declaration

```
public string Level { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Longitude

Declaration

```
public string Longitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MultipleCode

Declaration

```
public string MultipleCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notam

Declaration

```
public string Notam { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NotamT

Declaration

```
public string NotamT { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Pos

Declaration

```
public DataTypes.vLatLon Pos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Rnp

Declaration

```
public string Rnp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SectionCode2

Declaration

```
public string SectionCode2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

SubsectionCode2

Declaration

```
public string SubsectionCode2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCodeT

Declaration

```
public string TimeCodeT { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.ControlledAirspace.Limits

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Limits
```

Properties

Limit

Declaration

```
public string Limit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UnitIndicator

Declaration

```
public string UnitIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.CruisingTable

4.1.16 Cruising Tables Records (TC)

Inheritance

System.Object
Database.DataRecord
Database.CruisingTable

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class CruisingTable : Database.DataRecord
```

Constructors

CruisingTable(String, String)

Declaration

```
public CruisingTable(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

CruiseLevel

Declaration

```
public Database.CruisingTable.CruiseLevels[] CruiseLevel
```

Field Value

TYPE	DESCRIPTION
Database.CruisingTable.CruiseLevels[]	

Properties

CourseFrom

Declaration

```
public string CourseFrom { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CourseTo

Declaration

```
public string CourseTo { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CruiseTableIdentifier

Declaration

```
public string CruiseTableIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagTrue

Declaration

```
public string MagTrue { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.CruisingTable.CruiseLevels

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct CruiseLevels
```

Properties

From

Declaration

```
public string From { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

To

Declaration

```
public string To { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VerticalSeparation

Declaration

```
public string VerticalSeparation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.DataRecord

Abstract class from which all Data Type classes inherit

Inheritance

System.Object
Database.DataRecord
Database.AirportComs
Database.AirportGate
Database.AirportGls
Database.AirportLocGs
Database.AirportLocMarker
Database.AirportMsa
Database.AirportPathPoint
Database.AirportReferencePoint
Database.AirportRunway
Database.AirportSidStarAppr
Database.Airway
Database.AirwayMarker
Database.AirwayRestriction
Database.ControlledAirspace
Database.CruisingTable
Database.EnrouteComs
Database.FirUir
Database.HoldingPattern
Database.NavaidNdb
Database.NavaidVhf
Database.RestrictiveAirspace
Database.Waypoint

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public abstract class DataRecord
```

Constructors

DataRecord(String, String)

Declaration

```
public DataRecord(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

Tag

Declaration

```
public Database.DataRecord.Tags Tag
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Methods

GetTag(ref Database.DataRecord.Tags, String)

Declaration

```
public void GetTag(ref Database.DataRecord.Tags tag, string line)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.DataRecord.Tags	tag	
System.String	line	

Struct Database.DataRecord.Tags

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Tags
```

Properties

CycleDate

Declaration

```
public string CycleDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FileRecord

Declaration

```
public string FileRecord { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.EnrouteComs

4.1.23 Enroute Communications Records (EV)

Inheritance

System.Object
Database.DataRecord
Database.EnrouteComs

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class EnrouteComs : Database.DataRecord
```

Constructors

EnrouteComs(String, String)

Declaration

```
public EnrouteComs(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AltitudeDescription

Declaration

```
public string AltitudeDescription { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CallSign

Declaration

```
public string CallSign { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CallSignExt

Declaration

```
public string CallSignExt { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommFrequency

Declaration

```
public string CommFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationAltitude1

Declaration

```
public string CommunicationAltitude1 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationAltitude2

Declaration

```
public string CommunicationAltitude2 { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationClass

Declaration

```
public string CommunicationClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CommunicationsType

Declaration

```
public string CommunicationsType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

FirRdoIdent

Declaration

```
public string FirRdoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirAddress

Declaration

```
public string FirUirAddress { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FrequencyUnits

Declaration

```
public string FrequencyUnits { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

GuardOrTransmit

Declaration

```
public string GuardOrTransmit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

H24Indicator

Declaration

```
public string H24Indicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Indicator

Declaration

```
public string Indicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Latitude

Declaration

```
public string Latitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

Longitude

Declaration

```
public string Longitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Modulation

Declaration

```
public string Modulation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notam

Declaration

```
public string Notam { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Pos

Declaration

```
public DataTypes.vLatLon Pos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

PositionNarrative

Declaration

```
public string PositionNarrative { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RadarService

Declaration

```
public string RadarService { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReceiveFrequency

Declaration

```
public string ReceiveFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacility

Declaration

```
public string RemoteFacility { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilityIcaoCode

Declaration

```
public string RemoteFacilityIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilitySectionCode

Declaration

```
public string RemoteFacilitySectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteFacilitySubsectionCode

Declaration

```
public string RemoteFacilitySubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RemoteName

Declaration

```
public string RemoteName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

ServiceIndicator

Declaration

```
public string ServiceIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SignalEmission

Declaration

```
public string SignalEmission { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeOfOperation

Declaration

```
public string TimeOfOperation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TransmitFrequency

Declaration

```
public string TransmitFrequency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.FirUir

4.1.17 FIR/UIR Records (UF)

Inheritance

System.Object
Database.DataRecord
Database.FirUir

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class FirUir : Database.DataRecord
```

Constructors

FirUir(String, String)

Declaration

```
public FirUir(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Properties

AdjacentFirIdentifier

Declaration

```
public string AdjacentFirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

AdjacentUirIdentifier

Declaration

```
public string AdjacentUirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcBearing

Declaration

```
public string ArcBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcDistance

Declaration

```
public string ArcDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcOriginLatitude

Declaration

```
public string ArcOriginLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

ArcOriginLongitude

Declaration

```
public string ArcOriginLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

ArcOriginPos

Declaration

```
public DataTypes.vLatLon ArcOriginPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

BoundaryVia

Declaration

```
public string BoundaryVia { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CruiseTableInd

Declaration

```
public string CruiseTableInd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

EntryReport

Declaration

```
public string EntryReport { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirAddress

Declaration

```
public string FirUirAddress { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirIdentifier

Declaration

```
public string FirUirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirIndicator

Declaration

```
public string FirUirIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirLatitude

Declaration

```
public string FirUirLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

FirUirLongitude

Declaration

```
public string FirUirLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

FirUirName

Declaration

```
public string FirUirName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirUirPos

Declaration

```
public DataTypes.vLatLon FirUirPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FirUpperLimit

Declaration

```
public string FirUpperLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportingUnitsAltitude

Declaration

```
public string ReportingUnitsAltitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ReportingUnitsSpeed

Declaration

```
public string ReportingUnitsSpeed { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

UirLowerLimit

Declaration

```
public string UirLowerLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UirUpperLimit

Declaration

```
public string UirUpperLimit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.HeaderRecord

6.2 Header Records

Inheritance

System.Object
Database.HeaderRecord

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class HeaderRecord
```

Properties

CreationDate

Declaration

```
public string CreationDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CreationTime

Declaration

```
public string CreationTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

CycleDate

Declaration

```
public string CycleDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DatabasePartNumber

Declaration

```
public string DatabasePartNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DataSupplierIdent

Declaration

```
public string DataSupplierIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DescriptiveText

Declaration

```
public string DescriptiveText { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

EffectiveDate

Declaration

```
public string EffectiveDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ExpirationDate

Declaration

```
public string ExpirationDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FileCrc

Declaration

```
public string FileCrc { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FileName

Declaration

```
public string FileName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Production

Declaration

```
public bool Production { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

RecordCount

Declaration

```
public int RecordCount { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

RecordLength

Declaration

```
public int RecordLength { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

SupplierTextField

Declaration

```
public string SupplierTextField { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TargetCustomerIdent

Declaration

```
public string TargetCustomerIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VersionNumber

Declaration

```
public int VersionNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

Methods

ReadHeaderLine(String)

Declaration

```
public bool ReadHeaderLine(string line)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	

Returns

TYPE	DESCRIPTION
System.Boolean	

Class Database.HoldingPattern

4.1.5 Holding Pattern Records (EP)

Inheritance

System.Object
Database.DataRecord
Database.HoldingPattern

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class HoldingPattern : Database.DataRecord
```

Constructors

HoldingPattern(String, String)

Declaration

```
public HoldingPattern(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

FixArpt

Declaration

```
public Database.AirportReferencePoint FixArpt
```

Field Value

TYPE	DESCRIPTION
Database.AirportReferencePoint	

FixNavNdb

Declaration

```
public Database.NavaidNdb FixNavNdb
```

Field Value

TYPE	DESCRIPTION
Database.NavaidNdb	

FixNavVhf

Declaration

```
public Database.NavaidVhf FixNavVhf
```

Field Value

TYPE	DESCRIPTION
Database.NavaidVhf	

FixWpt

Declaration

```
public Database.Waypoint FixWpt
```

Field Value

TYPE	DESCRIPTION
Database.Waypoint	

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

ArcRadius

Declaration

```
public string ArcRadius { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToArcRadiusNM(String) to convert

DuplicateIdent

Declaration

```
public string DuplicateIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIcaoCode

Declaration

```
public string FixIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixIdentifier

Declaration

```
public string FixIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSectionCode

Declaration

```
public string FixSectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FixSubsectionCode

Declaration

```
public string FixSubsectionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

HoldingSpeed

Declaration

```
public string HoldingSpeed { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToKt(String) to convert

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

InboundHoldingCourse

Declaration

```
public string InboundHoldingCourse { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMagCourse(String) to convert

LegInboundOutboundIndicator

Declaration

```
public string LegInboundOutboundIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

LegLength

Declaration

```
public string LegLength { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToNM(String) to convert

LegTime

Declaration

```
public string LegTime { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToMinutes(String) to convert

MaxAlt

Declaration

```
public string MaxAlt { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltMax(String) to convert

MinAlt

Declaration

```
public string MinAlt { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToAltitude(String) to convert

Name

Declaration

```
public string Name { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RegionCode

Declaration

```
public string RegionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ResolvedFix

Declaration

```
public bool ResolvedFix { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Rnp

Declaration

```
public string Rnp { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RvsmMaxLevel

Declaration

```
public string RvsmMaxLevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RvsmMinLevel

Declaration

```
public string RvsmMinLevel { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TurnDirection

Declaration

```
public string TurnDirection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VerticalScaleFactor

Declaration

```
public string VerticalScaleFactor { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.NavaidNdb

4.1.3 NDB NAVAID Record (DB or PN)

Inheritance

System.Object
Database.DataRecord
Database.NavaidNdb

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class NavaidNdb : Database.DataRecord
```

Constructors

NavaidNdb(String, String)

Declaration

```
public NavaidNdb(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagS

Declaration

```
public Database.DataRecord.Tags TagS
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityCharacteristics

Declaration

```
public string FacilityCharacteristics { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

FirIdentifier

Declaration

```
public string FirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NavIcaoCode

Declaration

```
public string NavIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NdbClass

Declaration

```
public string NdbClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateNdbClass(String) to annotate

NdbFreq

Declaration

```
public string NdbFreq { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFreqNdb(String) to convert

NdbIdent

Declaration

```
public string NdbIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NdbLat

Declaration

```
public string NdbLat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

NdbLon

Declaration

```
public string NdbLon { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

NdbName

Declaration

```
public string NdbName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NdbPos

Declaration

```
public DataTypes.vLatLon NdbPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEnd

Declaration

```
public string StartEnd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UirIdentifier

Declaration

```
public string UirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.NavaidVhf

4.1.2 VHF NAVAID Record (D)

Inheritance

System.Object
Database.DataRecord
Database.NavaidVhf

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class NavaidVhf : Database.DataRecord
```

Constructors

NavaidVhf(String, String)

Declaration

```
public NavaidVhf(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagS

Declaration

```
public Database.DataRecord.Tags TagS
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DmeElev

Declaration

```
public string DmeElev { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

DmeIdent

Declaration

```
public string DmeIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DmeLat

Declaration

```
public string DmeLat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

DmeLon

Declaration

```
public string DmeLon { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

DmeOperationalServiceVolume

Declaration

```
public string DmeOperationalServiceVolume { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DmePos

Declaration

```
public DataTypes.vLatLon DmePos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FacilityCharacteristics

Declaration

```
public string FacilityCharacteristics { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FacilityElevation

Declaration

```
public string FacilityElevation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToElevMsl(String) to convert

FigureOfMerit

Declaration

```
public string FigureOfMerit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirIdentifier

Declaration

```
public string FirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FreqProtection

Declaration

```
public string FreqProtection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IlsDmeBias

Declaration

```
public string IlsDmeBias { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

MagneticVariation

Declaration

```
public string MagneticVariation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NavaidClass

Declaration

```
public string NavaidClass { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use AnnotateNavaidClass(String) to annotate

NavIcaoCode

Declaration

```
public string NavIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RouteInappropriateDme

Declaration

```
public string RouteInappropriateDme { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEnd

Declaration

```
public string StartEnd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StationDeclination

Declaration

```
public string StationDeclination { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UirIdentifier

Declaration

```
public string UirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VorFreq

Declaration

```
public string VorFreq { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToFreqVhf(String) to convert

VorIdent

Declaration

```
public string VorIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VorLat

Declaration

```
public string VorLat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

VorLon

Declaration

```
public string VorLon { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

VorName

Declaration

```
public string VorName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

VorPos

Declaration

```
public DataTypes.vLatLon VorPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Database.RestrictiveAirspace

4.1.18 Restrictive Airspace Records (UR)

Inheritance

System.Object
Database.DataRecord
Database.RestrictiveAirspace

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class RestrictiveAirspace : Database.DataRecord
```

Constructors

RestrictiveAirspace(String, String)

Declaration

```
public RestrictiveAirspace(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

LowerLimit

Declaration

```
public Database.RestrictiveAirspace.Limits LowerLimit
```

Field Value

TYPE	DESCRIPTION
Database.RestrictiveAirspace.Limits	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagT

Declaration

```
public Database.DataRecord.Tags TagT
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TimeOfOperations

Declaration

```
public string[] TimeOfOperations
```

Field Value

TYPE	DESCRIPTION
System.String[]	

UpperLimit

Declaration

```
public Database.RestrictiveAirspace.Limits UpperLimit
```

Field Value

TYPE	DESCRIPTION
Database.RestrictiveAirspace.Limits	

Properties

ArcBearing

Declaration

```
public string ArcBearing { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcDistance

Declaration

```
public string ArcDistance { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ArcOriginLatitude

Declaration

```
public string ArcOriginLatitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

ArcOriginLongitude

Declaration

```
public string ArcOriginLongitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

ArcOriginPos

Declaration

```
public DataTypes.vLatLon ArcOriginPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

BoundaryVia

Declaration

```
public string BoundaryVia { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

ControllingAgency

Declaration

```
public string ControllingAgency { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Latitude

Declaration

```
public string Latitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

Level

Declaration

```
public string Level { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Longitude

Declaration

```
public string Longitude { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

MultipleCode

Declaration

```
public string MultipleCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notam

Declaration

```
public string Notam { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NotamT

Declaration

```
public string NotamT { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Pos

Declaration

```
public DataTypes.vLatLon Pos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

RestrictiveAirspaceDesignation

Declaration

```
public string RestrictiveAirspaceDesignation { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RestrictiveAirspaceName

Declaration

```
public string RestrictiveAirspaceName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RestrictiveType

Declaration

```
public string RestrictiveType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

SequenceNumber

Declaration

```
public int SequenceNumber { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.Int32	

StartEndDate

Declaration

```
public string StartEndDate { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEndIndicator

Declaration

```
public string StartEndIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCode

Declaration

```
public string TimeCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeCodeT

Declaration

```
public string TimeCodeT { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

TimeIndicator

Declaration

```
public string TimeIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Struct Database.RestrictiveAirspace.Limits

Inherited Members

System.ValueType.Equals(System.Object)
System.ValueType.GetHashCode()
System.ValueType.ToString()
System.Object.Equals(System.Object, System.Object)
System.Object.GetType()
System.Object.ReferenceEquals(System.Object, System.Object)

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public struct Limits
```

Properties

Limit

Declaration

```
public string Limit { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UnitIndicator

Declaration

```
public string UnitIndicator { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Class Database.Waypoint

4.1.4 Waypoint Record (EA) or (PC)

Inheritance

System.Object
Database.DataRecord
Database.Waypoint

Inherited Members

Database.DataRecord.Tag
Database.DataRecord.GetTag(Database.DataRecord.Tags, String)
System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Waypoint : Database.DataRecord
```

Constructors

Waypoint(String, String)

Declaration

```
public Waypoint(string line, string code)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	line	
System.String	code	

Fields

TagA

Declaration

```
public Database.DataRecord.Tags TagA
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

TagP

Declaration

```
public Database.DataRecord.Tags TagP
```

Field Value

TYPE	DESCRIPTION
Database.DataRecord.Tags	

Properties

DatumCode

Declaration

```
public string DatumCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

DynMagVar

Declaration

```
public string DynMagVar { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

FirIdentifier

Declaration

```
public string FirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

NameFormatIdent

Declaration

```
public string NameFormatIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Notes

Declaration

```
public string Notes { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

RegionCode

Declaration

```
public string RegionCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

StartEnd

Declaration

```
public string StartEnd { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Subsection

Declaration

```
public string Subsection { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

UirIdentifier

Declaration

```
public string UirIdentifier { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WptIcaoCode

Declaration

```
public string WptIcaoCode { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WptIdent

Declaration

```
public string WptIdent { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WptLat

Declaration

```
public string WptLat { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLat(String) to convert

WptLon

Declaration

```
public string WptLon { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	Use ToLon(String) to convert

WptName

Declaration

```
public string WptName { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WptPos

Declaration

```
public DataTypes.vLatLon WptPos { get; }
```

Property Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

WptType

Declaration

```
public string WptType { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

WptUsage

Declaration

```
public string WptUsage { get; set; }
```

Property Value

TYPE	DESCRIPTION
System.String	

Methods

ToString(String)

Declaration

```
public string ToString(string tab)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	tab	

Returns

TYPE	DESCRIPTION
System.String	

Class Navigation

Inheritance

System.Object

Navigation

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public static class Navigation
```

Class Navigation.Arpt

Inheritance

System.Object
Navigation.Arpt

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Arpt
```

Constructors

Arpt(Database.AirportReferencePoint)

Declaration

```
public Arpt(Database.AirportReferencePoint r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.AirportReferencePoint	r	

Fields

AirportElevation

Declaration

```
public DataTypes.vfloat AirportElevation
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

AirportName

Declaration

```
public string AirportName
```

Field Value

TYPE	DESCRIPTION
System.String	

AirportReferencePoint

Declaration

```
public DataTypes.vLatLon AirportReferencePoint
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

AtaIataDesignator

Declaration

```
public string AtaIataDesignator
```

Field Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode
```

Field Value

TYPE	DESCRIPTION
System.String	

DaylightIndicator

Declaration

```
public string DaylightIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

IfrCapability

Declaration

```
public string IfrCapability
```

Field Value

TYPE	DESCRIPTION
System.String	

LongestRunway

Declaration

```
public string LongestRunway
```

Field Value

TYPE	DESCRIPTION
System.String	

LongestRunwaySurfaceCode

Declaration

```
public string LongestRunwaySurfaceCode
```

Field Value

TYPE	DESCRIPTION
System.String	

MagneticTrueIndicator

Declaration

```
public DataTypes.vbool MagneticTrueIndicator
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vbool	

MagVar

Declaration

```
public DataTypes.vfloat MagVar
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

MagVarStr

Declaration

```
public string MagVarStr
```

Field Value

TYPE	DESCRIPTION
System.String	

PublicMilitaryIndicator

Declaration

```
public string PublicMilitaryIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

RecommendedNavaid

Declaration

```
public string RecommendedNavaid
```

Field Value

TYPE	DESCRIPTION
System.String	

SpeedLimit

Declaration

```
public DataTypes.vfloat SpeedLimit
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

SpeedLimitAltitude

Declaration

```
public DataTypes.vfloat SpeedLimitAltitude
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

TimeZone

Declaration

```
public string TimeZone
```

Field Value

TYPE	DESCRIPTION
System.String	

TransitionAltitude

Declaration

```
public DataTypes.vfloat TransitionAltitude
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

TransitionLevel

Declaration

```
public DataTypes.vfloat TransitionLevel
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

Class Navigation.Hold

Inheritance

System.Object
Navigation.Hold

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Hold
```

Constructors

Hold(Database.HoldingPattern)

Declaration

```
public Hold(Database.HoldingPattern r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.HoldingPattern	r	

Fields

ArcRadius

Declaration

```
public DataTypes.vfloat ArcRadius
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

DuplicateIdent

Declaration

```
public string DuplicateIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

FixArpt

Declaration

```
public Navigation.Arpt FixArpt
```

Field Value

TYPE	DESCRIPTION
Navigation.Arpt	

FixIcaoCode

Declaration

```
public string FixIcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

FixIdentifier

Declaration

```
public string FixIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

FixNavNdb

Declaration

```
public Navigation.NavNdb FixNavNdb
```

Field Value

TYPE	DESCRIPTION
Navigation.NavNdb	

FixNavVhf

Declaration

```
public Navigation.NavVhf FixNavVhf
```

Field Value

TYPE	DESCRIPTION
Navigation.NavVhf	

FixRwy

Declaration

```
public Navigation.Rwy FixRwy
```

Field Value

TYPE	DESCRIPTION
Navigation.Rwy	

FixSectionCode

Declaration

```
public string FixSectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

FixSubsectionCode

Declaration

```
public string FixSubsectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

FixWpt

Declaration

```
public Navigation.Wpt FixWpt
```

Field Value

TYPE	DESCRIPTION
Navigation.Wpt	

HoldingSpeed

Declaration

```
public DataTypes.vfloat HoldingSpeed
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

InboundHoldingCourse

Declaration

```
public DataTypes.vfloat InboundHoldingCourse
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LegInboundOutboundIndicator

Declaration

```
public string LegInboundOutboundIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

LegLength

Declaration

```
public DataTypes.vfloat LegLength
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LegTime

Declaration

```
public DataTypes.vTimeSpan LegTime
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vTimeSpan	

MaxAlt

Declaration

```
public DataTypes.vfloat MaxAlt
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

MinAlt

Declaration

```
public DataTypes.vfloat MinAlt
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

Name

Declaration

```
public string Name
```

Field Value

TYPE	DESCRIPTION
System.String	

RegionCode

Declaration

```
public string RegionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

Rnp

Declaration

```
public DataTypes.vfloat Rnp
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

RvsmMaxLevel

Declaration

```
public string RvsmMaxLevel
```

Field Value

TYPE	DESCRIPTION
System.String	

RvsmMinLevel

Declaration

```
public string RvsmMinLevel
```

Field Value

TYPE	DESCRIPTION
System.String	

TurnDirection

Declaration

```
public string TurnDirection
```

Field Value

TYPE	DESCRIPTION
System.String	

VerticalScaleFactor

Declaration

```
public string VerticalScaleFactor
```

Field Value

TYPE	DESCRIPTION
System.String	

Class Navigation.NavIls

Inheritance

System.Object
Navigation.NavIls

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class NavIls
```

Constructors

NavIls(Database.AirportLocGs)

Declaration

```
public NavIls(Database.AirportLocGs r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.AirportLocGs	r	

Fields

AirportIdent

Declaration

```
public string AirportIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

GlideSlopeAngle

Declaration

```
public DataTypes.vfloat GlideSlopeAngle
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

GlideSlopeElevation

Declaration

```
public DataTypes.vfloat GlideSlopeElevation
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

GlideSlopeHeightAtLandingThreshold

Declaration

```
public DataTypes.vfloat GlideSlopeHeightAtLandingThreshold
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

GlideSlopePos

Declaration

```
public DataTypes.vLatLon GlideSlopePos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

GlideSlopePosition

Declaration

```
public DataTypes.vfloat GlideSlopePosition
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

ILSCategory

Declaration

```
public string ILSCategory
```

Field Value

TYPE	DESCRIPTION
System.String	

LocalizerBearing

Declaration

```
public DataTypes.vfloat LocalizerBearing
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LocalizerFrequency

Declaration

```
public DataTypes.vfloat LocalizerFrequency
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LocalizerIdentifier

Declaration

```
public string LocalizerIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

LocalizerPos

Declaration

```
public DataTypes.vLatLon LocalizerPos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

LocalizerPosition

Declaration

```
public DataTypes.vfloat LocalizerPosition
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LocalizerPositionReference

Declaration

```
public string LocalizerPositionReference
```

Field Value

TYPE	DESCRIPTION
System.String	

LocalizerWidth

Declaration

```
public DataTypes.vfloat LocalizerWidth
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

StationDeclination

Declaration

```
public DataTypes.vfloat StationDeclination
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

StationDeclinationStr

Declaration

```
public string StationDeclinationStr
```

Field Value

TYPE	DESCRIPTION
System.String	

SupportingFacilityIcaoCode

Declaration

```
public string SupportingFacilityIcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

SupportingFacilityId

Declaration

```
public string SupportingFacilityId
```

Field Value

TYPE	DESCRIPTION
System.String	

SupportingFacilitySectionCode

Declaration

```
public string SupportingFacilitySectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

SupportingFacilitySubsectionCode

Declaration

```
public string SupportingFacilitySubsectionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

Class Navigation.NavNdb

Inheritance

System.Object
Navigation.NavNdb

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class NavNdb
```

Constructors

NavNdb(Database.NavaidNdb)

Declaration

```
public NavNdb(Database.NavaidNdb r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.NavaidNdb	r	

Fields

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode
```

Field Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

MagVar

Declaration

```
public DataTypes.vfloat MagVar
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

MagVarStr

Declaration

```
public string MagVarStr
```

Field Value

TYPE	DESCRIPTION
System.String	

NavIcaoCode

Declaration

```
public string NavIcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

NdbClass

Declaration

```
public string NdbClass
```

Field Value

TYPE	DESCRIPTION
System.String	

NdbFreq

Declaration

```
public DataTypes.vfloat NdbFreq
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

NdbIdent

Declaration

```
public string NdbIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

NdbName

Declaration

```
public string NdbName
```

Field Value

TYPE	DESCRIPTION
System.String	

NdbPos

Declaration

```
public DataTypes.vLatLon NdbPos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Properties

IsBfo

Declaration

```
public bool IsBfo { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsBM

Declaration

```
public bool IsBM { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsIM

Declaration

```
public bool IsIM { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsMarBcn

Declaration

```
public bool IsMarBcn { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsMM

Declaration

```
public bool IsMM { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsNdb

Declaration

```
public bool IsNdb { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsOM

Declaration

```
public bool IsOM { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsPwrHigh

Declaration

```
public bool IsPwrHigh { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsPwrLocator

Declaration

```
public bool IsPwrLocator { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsPwrLow

Declaration

```
public bool IsPwrLow { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsPwrMid

Declaration

```
public bool IsPwrMid { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsSabh

Declaration

```
public bool IsSabh { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Class Navigation.NavVhf

Inheritance

System.Object
Navigation.NavVhf

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class NavVhf
```

Constructors

NavVhf(Database.NavaidVhf)

Declaration

```
public NavVhf(Database.NavaidVhf r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.NavaidVhf	r	

Fields

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

DatumCode

Declaration

```
public string DatumCode
```

Field Value

TYPE	DESCRIPTION
System.String	

DmeElev

Declaration

```
public DataTypes.vfloat DmeElev
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

DmeIdent

Declaration

```
public string DmeIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

DmeOperationalServiceVolume

Declaration

```
public string DmeOperationalServiceVolume
```

Field Value

TYPE	DESCRIPTION
System.String	

DmePos

Declaration

```
public DataTypes.vLatLon DmePos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FigureOfMerit

Declaration

```
public string FigureOfMerit
```

Field Value

TYPE	DESCRIPTION
System.String	

FreqProtection

Declaration

```
public string FreqProtection
```

Field Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

IlsDmeBias

Declaration

```
public string IlsDmeBias
```

Field Value

TYPE	DESCRIPTION
System.String	

NavaidClass

Declaration

```
public string NavaidClass
```

Field Value

TYPE	DESCRIPTION
System.String	

NavIcaoCode

Declaration

```
public string NavIcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

RouteInappropriateDme

Declaration

```
public string RouteInappropriateDme
```

Field Value

TYPE	DESCRIPTION
System.String	

StationDeclination

Declaration

```
public DataTypes.vfloat StationDeclination
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

StationDeclinationStr

Declaration

```
public string StationDeclinationStr
```

Field Value

TYPE	DESCRIPTION
System.String	

VorFreq

Declaration

```
public DataTypes.vfloat VorFreq
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

VorIdent

Declaration

```
public string VorIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

VorName

Declaration

```
public string VorName
```

Field Value

TYPE	DESCRIPTION
System.String	

VorPos

Declaration

```
public DataTypes.vLatLon VorPos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

Properties

IsCollo

Declaration

```
public bool IsCollo { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsDme

Declaration

```
public bool IsDme { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsIlsDme

Declaration

```
public bool IsIlsDme { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsMlsDmeN

Declaration

```
public bool IsMlsDmeN { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsMlsDmeP

Declaration

```
public bool IsMlsDmeP { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsNoCollo

Declaration

```
public bool IsNoCollo { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsRangeHighAlt

Declaration

```
public bool IsRangeHighAlt { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsRangeLowAlt

Declaration

```
public bool IsRangeLowAlt { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsRangeTerminal

Declaration

```
public bool IsRangeTerminal { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsTcn

Declaration

```
public bool IsTcn { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsTcnMil

Declaration

```
public bool IsTcnMil { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

IsVor

Declaration

```
public bool IsVor { get; }
```

Property Value

TYPE	DESCRIPTION
System.Boolean	

Class Navigation.PathPoint

Inheritance

System.Object
Navigation.PathPoint

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class PathPoint
```

Constructors

PathPoint(Database.AirportPathPoint)

Declaration

```
public PathPoint(Database.AirportPathPoint r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.AirportPathPoint	r	

Fields

AirportIdent

Declaration

```
public string AirportIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

ApproachPerformanceDesignator

Declaration

```
public string ApproachPerformanceDesignator
```

Field Value

TYPE	DESCRIPTION
System.String	

ApproachProcedureIdent

Declaration

```
public string ApproachProcedureIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

ApproachTypeIdentifier

Declaration

```
public string ApproachTypeIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

CourseWidthAtThreshold

Declaration

```
public DataTypes.vfloat CourseWidthAtThreshold
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

FasDataCrcRemainder

Declaration

```
public string FasDataCrcRemainder
```

Field Value

TYPE	DESCRIPTION
System.String	

FlightPathAlignmentPoint

Declaration

```
public DataTypes.vLatLon FlightPathAlignmentPoint
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

FpapEllipsoidHeight

Declaration

```
public DataTypes.vfloat FpapEllipsoidHeight
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

FpapOrthometricHeight

Declaration

```
public DataTypes.vfloat FpapOrthometricHeight
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

GlidePathAngle

Declaration

```
public DataTypes.vfloat GlidePathAngle
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

GnssChannelNumber

Declaration

```
public string GnssChannelNumber
```

Field Value

TYPE	DESCRIPTION
System.String	

HAL

Declaration

```
public DataTypes.vfloat HAL
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

LandingThresholdPoint

Declaration

```
public DataTypes.vLatLon LandingThresholdPoint
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

LengthOffset

Declaration

```
public DataTypes.vfloat LengthOffset
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LtpEllipsoidHeight

Declaration

```
public DataTypes.vfloat LtpEllipsoidHeight
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LtpOrthometricHeight

Declaration

```
public DataTypes.vfloat LtpOrthometricHeight
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

OperationType

Declaration

```
public string OperationType
```

Field Value

TYPE	DESCRIPTION
System.String	

PathPointTchMeter

Declaration

```
public DataTypes.vfloat PathPointTchMeter
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

ReferencePathDataSelector

Declaration

```
public string ReferencePathDataSelector
```

Field Value

TYPE	DESCRIPTION
System.String	

ReferencePathIdentifier

Declaration

```
public string ReferencePathIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

RouteIndicator

Declaration

```
public string RouteIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

RunwayOrHelipadIdentifier

Declaration

```
public string RunwayOrHelipadIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

SbasServiceProviderIdentifier

Declaration

```
public Convert.SbasIds SbasServiceProviderIdentifier
```

Field Value

TYPE	DESCRIPTION
Convert.SbasIds	

VAL

Declaration

```
public DataTypes.vfloat VAL
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

Class Navigation.Rwy

Inheritance

System.Object
Navigation.Rwy

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Rwy
```

Constructors

Rwy(Database.AirportRunway)

Declaration

```
public Rwy(Database.AirportRunway r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.AirportRunway	r	

Fields

AirportIcaoIdent

Declaration

```
public string AirportIcaoIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

DisplacedThresholdDistance

Declaration

```
public string DisplacedThresholdDistance
```

Field Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

LandingThresholdElevation

Declaration

```
public DataTypes.vfloat LandingThresholdElevation
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

LocalizerMlsGlsCategoryClass

Declaration

```
public string LocalizerMlsGlsCategoryClass
```

Field Value

TYPE	DESCRIPTION
System.String	

LocalizerMlsGlsRefPathIdentifier

Declaration

```
public string LocalizerMlsGlsRefPathIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

LtpEllipsoidHeight

Declaration

```
public string LtpEllipsoidHeight
```

Field Value

TYPE	DESCRIPTION
System.String	

RunwayDescription

Declaration

```
public string RunwayDescription
```

Field Value

TYPE	DESCRIPTION
System.String	

RunwayGradient

Declaration

```
public string RunwayGradient
```

Field Value

TYPE	DESCRIPTION
System.String	

RunwayIdentifier

Declaration

```
public string RunwayIdentifier
```

Field Value

TYPE	DESCRIPTION
System.String	

RunwayLength

Declaration

```
public DataTypes.vfloat RunwayLength
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

RunwayMagneticBearing

Declaration

```
public DataTypes.vfloat RunwayMagneticBearing
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

RunwayPos

Declaration

```
public DataTypes.vLatLon RunwayPos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

RunwayWidth

Declaration

```
public DataTypes.vfloat RunwayWidth
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

SecondLocalizerMlsGlsCategoryClass

Declaration

```
public string SecondLocalizerMlsGlsCategoryClass
```

Field Value

TYPE	DESCRIPTION
System.String	

SecondLocalizerMlsGlsRefPathIdent

Declaration

```
public string SecondLocalizerMlsGlsRefPathIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

Stopway

Declaration

```
public string Stopway
```

Field Value

TYPE	DESCRIPTION
System.String	

TchValueIndicator

Declaration

```
public string TchValueIndicator
```

Field Value

TYPE	DESCRIPTION
System.String	

ThresholdCrossingHeight

Declaration

```
public DataTypes.vfloat ThresholdCrossingHeight
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

Class Navigation.Wpt

Inheritance

System.Object
Navigation.Wpt

Inherited Members

System.Object.Equals(System.Object)
System.Object.Equals(System.Object, System.Object)
System.Object.GetHashCode()
System.Object.GetType()
System.Object.MemberwiseClone()
System.Object.ReferenceEquals(System.Object, System.Object)
System.Object.ToString()

Namespace: FlightAhead.Arinc424

Assembly: Arinc424.dll

Syntax

```
public class Wpt
```

Constructors

Wpt(Database.Waypoint)

Declaration

```
public Wpt(Database.Waypoint r)
```

Parameters

TYPE	NAME	DESCRIPTION
Database.Waypoint	r	

Fields

DatumCode

Declaration

```
public string DatumCode
```

Field Value

TYPE	DESCRIPTION
System.String	

DynMagVar

Declaration

```
public DataTypes.vfloat DynMagVar
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vfloat	

DynMagVarStr

Declaration

```
public string DynMagVarStr
```

Field Value

TYPE	DESCRIPTION
System.String	

IcaoCode

Declaration

```
public string IcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

NameFormatIdent

Declaration

```
public string NameFormatIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

RegionCode

Declaration

```
public string RegionCode
```

Field Value

TYPE	DESCRIPTION
System.String	

WptIcaoCode

Declaration

```
public string WptIcaoCode
```

Field Value

TYPE	DESCRIPTION
System.String	

WptIdent

Declaration

```
public string WptIdent
```

Field Value

TYPE	DESCRIPTION
System.String	

WptName

Declaration

```
public string WptName
```

Field Value

TYPE	DESCRIPTION
System.String	

WptPos

Declaration

```
public DataTypes.vLatLon WptPos
```

Field Value

TYPE	DESCRIPTION
FlightAhead.Support.DataTypes.vLatLon	

WptType

Declaration

```
public string WptType
```

Field Value

TYPE	DESCRIPTION
System.String	

WptUsage

Declaration

```
public string WptUsage
```

Field Value

TYPE	DESCRIPTION
System.String	