Volume 12: OGC CDB Navaids Attribution and Navaids Attribution Enumeration Values

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i. **Abstract**
This OGC Best Practice, a volume of the CDB document set, provides a list and description of the instance-level attribution fields held in Navigation Dataset Instance Attribute files. Please refer to section 3.7 of the CDB Core Standard (Volume 1) for information on the tables that use the Navaids key words.

ii. **Keywords**
The following are keywords to be used by search engines and document catalogues.
ogcdoc, OGC document, cdb, navaids

iii. **Preface**
Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. The Open Geospatial Consortium shall not be held responsible for identifying any or all such patent rights.

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iv. **Submitting organizations**
The following organizations submitted this Document to the Open Geospatial Consortium (OGC):

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Carl Reed, OGC Individual Member
Envitia, Ltd
Glen Johnson, OGC Individual Member
KaDSci, LLC
Laval University
Open Site Plan
University of Calgary
UK Met Office

The OGC CDB standard is based on and derived from an industry developed and maintained specification, which has been approved and published as OGC Document 15-003: OGC Common DataBase Volume 1 Main Body. An extensive listing of contributors to the legacy industry-led CDB specification is at Chapter 11, pp 475-476 in that OGC Best Practices Document (https://portal.opengeospatial.org/files/?artifact_id=61935).
v. Submitters

All questions regarding this submission should be directed to the editor or the submitters:

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carl Reed</td>
<td>Carl Reed &amp; Associates</td>
</tr>
<tr>
<td>David Graham</td>
<td>CAE Inc.</td>
</tr>
</tbody>
</table>

1. Scope

This informative CDB document provides a list and description of the instance-level attribution fields held in Navigation Dataset Instance Attribute files. This content was originally in Annexes H and I, Volume 2 CDB Best Practice.

For ease of editing and review, the standard has been separated into 12 Volumes and a schema repository.

- Volume 0: OGC CDB Companion Primer for the CDB standard. (Best Practice).
- Volume 1: OGC CDB Core Standard: Model and Physical Data Store Structure. The main body (core) of the CDB standard (Normative).
- Volume 2: OGC CDB Core Model and Physical Structure Annexes (Best Practice).
- Volume 3: OGC CDB Terms and Definitions (Normative).
- Volume 4: OGC CDB Use of Shapefiles for Vector Data Storage (Best Practice).
- Volume 5: OGC CDB Radar Cross Section (RCS) Models (Best Practice).
- Volume 6: OGC CDB Rules for Encoding Data using OpenFlight (Best Practice).
- Volume 7: OGC CDB Data Model Guidance (Best Practice).
- Volume 8: OGC CDB Spatial Reference System Guidance (Best Practice).
- Volume 9: OGC CDB Schema Package: provides the normative schemas for key features types required in the synthetic modelling environment. Essentially, these schemas are designed to enable semantic interoperability within the simulation context (Normative).
- Volume 10: OGC CDB Implementation Guidance (Best Practice).
- Volume 12: OGC CDB Navaids Attribution and Navaids Attribution Enumeration Values (Best Practice).

2. Conformance

Not Applicable.
3. References

The following normative documents contain provisions that, through reference in this text, constitute provisions of this document. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the normative document referred to applies.

4. Terms and Definitions

This document uses the terms defined in Sub-clause 5.3 of [OGC 06-121r8], which is based on the ISO/IEC Directives, Part 2, Rules for the structure and drafting of International Standards. In particular, the word “shall” (not “must”) is the verb form used to indicate a requirement to be strictly followed to conform to this standard.

5. Conventions

This sections provides details and examples for any conventions used in the document. Examples of conventions are symbols, abbreviations, use of XML schema, or special notes regarding how to read the document.

5.1 Identifiers

No requirements.

6. Navaids Attribution Tables

This informative document provides a list and description of the instance-level attribution fields held in Navigation Dataset Instance Attribute files. The attribute name is limited to a maximum of 10 characters.

The Logical data type in column 2 of the following tables refers to the dBASE III Logical data type. A true value is defined as one of the letters T, t, Y, and y; while the false value is defined as F, f, N, and n.
### 6.1 Airport

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Data Type</th>
<th>Range</th>
<th>Unit</th>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StoraNumbe</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>210</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AlterNam</td>
<td>String</td>
<td>50 chars</td>
<td>-</td>
<td></td>
<td>Alternate name other than the official name that can be used occasionally.</td>
</tr>
<tr>
<td>AsCoStNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Associated Comms record storage number.</td>
</tr>
<tr>
<td>BeacoAvail</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if a rotating beacon is present.</td>
</tr>
<tr>
<td>City</td>
<td>String</td>
<td>50 chars</td>
<td>-</td>
<td></td>
<td>Airport city name.</td>
</tr>
<tr>
<td>CivMiTyp</td>
<td>CivilMilitaryType</td>
<td>0-6</td>
<td>-</td>
<td></td>
<td>Airport usage type (civil, military, etc.).</td>
</tr>
<tr>
<td>ClearStatu</td>
<td>ClearanceStatus</td>
<td>0-3</td>
<td>-</td>
<td></td>
<td>Clearance status.</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>211</td>
<td>Country where the airport is located.</td>
</tr>
<tr>
<td>DayliTim</td>
<td>Float32</td>
<td>+/-24</td>
<td>Hrs</td>
<td></td>
<td>Difference to Zulu time based on the daylight saving time.</td>
</tr>
<tr>
<td>DayTimFram</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Timeframe when daylight saving time is observed by a country.</td>
</tr>
<tr>
<td>FlipPage</td>
<td>String</td>
<td>75 chars</td>
<td>-</td>
<td></td>
<td>Related pages for that airport in the companion FLIP.</td>
</tr>
<tr>
<td>FuelType</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Fuel type available.</td>
</tr>
<tr>
<td>HydElePres</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indication of the presence of a hydrographic element near the airport.</td>
</tr>
<tr>
<td>IataCode</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td></td>
<td>Airport IATA designator.</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4 chars</td>
<td>-</td>
<td>210</td>
<td>Airport ICAO area code.</td>
</tr>
<tr>
<td>Ident</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>210</td>
<td>Airport ICAO ident.</td>
</tr>
<tr>
<td>IfrCapab</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if the airport has published IFR approaches.</td>
</tr>
<tr>
<td>IslanGrou</td>
<td>String</td>
<td>50 chars</td>
<td>-</td>
<td></td>
<td>Airport associated with islands or group of islands.</td>
</tr>
<tr>
<td>Jasu</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Type of Jet Aircraft Starting Units (JASU) available.</td>
</tr>
<tr>
<td>LonRunLeng</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Length of the longest runway of the airport.</td>
</tr>
<tr>
<td>LonRunSurf</td>
<td>PavementType</td>
<td>0-3</td>
<td>-</td>
<td></td>
<td>Surface type of the longest runway.</td>
</tr>
<tr>
<td>MagTruIndi</td>
<td>MagneticTrueIndication</td>
<td>0-6</td>
<td>-</td>
<td></td>
<td>Indicates if the details and procedures are given relative to Magnetic or True North.</td>
</tr>
<tr>
<td>MagneVaria</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Magnetic variation.</td>
</tr>
<tr>
<td>MgrsPosit</td>
<td>String</td>
<td>20 chars</td>
<td>-</td>
<td></td>
<td>MGRS position given using the UTM or the UPS grid.</td>
</tr>
<tr>
<td>Name</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Official name.</td>
</tr>
<tr>
<td>NavicaCod</td>
<td>String</td>
<td>4 chars</td>
<td>-</td>
<td></td>
<td>Recommended navaid ICAO code.</td>
</tr>
<tr>
<td>NavaiIden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td></td>
<td>Recommended navaid ident.</td>
</tr>
<tr>
<td>Notam</td>
<td>NotamSystem</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Notam service.</td>
</tr>
<tr>
<td>OilType</td>
<td>String</td>
<td>75 chars</td>
<td>-</td>
<td></td>
<td>Type of oil available.</td>
</tr>
<tr>
<td>OperaAgenc</td>
<td>String</td>
<td>255 chars</td>
<td>-</td>
<td></td>
<td>Primary operating agency.</td>
</tr>
<tr>
<td>Field</td>
<td>Type</td>
<td>Value</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>---------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OperaHour</td>
<td>OperatingHours</td>
<td>0-4</td>
<td>Operating hours of the airport.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>Position (latitude, longitude, altitude) of the NavObject.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
<td>memo</td>
<td>Essential remarks for terminal procedures.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ServiRemar</td>
<td>String</td>
<td>Memo</td>
<td>Service remarks for airport.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SpeedLimit</td>
<td>Uint32</td>
<td>-</td>
<td>Speed limit in knots.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SpeLimAlti</td>
<td>Sint32</td>
<td>-</td>
<td>Altitude below where speed limits may be imposed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StateName</td>
<td>StateEntry</td>
<td>0-51</td>
<td>State or province where the airport is located.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SupFluTyp</td>
<td>String</td>
<td>50 chars</td>
<td>Type of available fluids/system/oxygen/nitrogen.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TerraImpac</td>
<td>Logical</td>
<td>Boolean</td>
<td>Indicates a terrain impact on the airport.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Timezone</td>
<td>Float32</td>
<td>+/-24</td>
<td>Difference to Zulu time.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TransAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Upper altitude limit for which the vertical position of an A/C is controlled by reference to altitudes (MSL).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TransLeve</td>
<td>Sint32</td>
<td>-</td>
<td>Lowest flight level available to use above the transition altitude.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 6.2 AirRefueling

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Data type</th>
<th>Range</th>
<th>Unit</th>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>StoraNumbe</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AiReOpIden</td>
<td>String</td>
<td>20 chars</td>
<td>-</td>
<td>2102</td>
<td>Air refueling operation identifier</td>
</tr>
<tr>
<td>AltitDesc</td>
<td>RefuelingAltitudeDescription</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Indicates how Altitude 1 and 2 should be used</td>
</tr>
<tr>
<td>AltitDesc1</td>
<td>RefuelingAltitudeDescription</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Indicates how Altitude 1 and 2 should be used</td>
</tr>
<tr>
<td>AltitDesc2</td>
<td>RefuelingAltitudeDescription</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Indicates how Altitude 1 and 2 should be used</td>
</tr>
<tr>
<td>ApRaBeCoSe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>APN 69/134/135 radar beacon code setting</td>
</tr>
<tr>
<td>ApRaBeCoS1</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>APX 78 radar beacon code setting</td>
</tr>
<tr>
<td>BackuFrequ</td>
<td>Uint64</td>
<td>-</td>
<td>Hz</td>
<td></td>
<td>Backup UHF frequency</td>
</tr>
<tr>
<td>ComTelNumb</td>
<td>String</td>
<td>100</td>
<td>-</td>
<td></td>
<td>Commercial telephone number(s) of the scheduling unit</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the refueling track or anchor is located</td>
</tr>
<tr>
<td>Direction</td>
<td>RefuelingDirection</td>
<td>0-8</td>
<td>-</td>
<td>2122</td>
<td>Predominant direction of the refueling track or anchor at the point of entry</td>
</tr>
<tr>
<td>DsnTelNumb</td>
<td>String</td>
<td>100</td>
<td>-</td>
<td></td>
<td>Defense switched network telephone number</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4</td>
<td>-</td>
<td></td>
<td>ICAO code at point of entry</td>
</tr>
<tr>
<td>PrimaFrequ</td>
<td>Uint64</td>
<td>-</td>
<td>Hz</td>
<td></td>
<td>Primary UHF frequency</td>
</tr>
<tr>
<td>ReceiChann</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Air-to-Air Y-band tacan channel used during refueling operations</td>
</tr>
<tr>
<td>Point</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Reference Position (latitude, longitude, altitude)</td>
</tr>
<tr>
<td>RefueAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 1 to be used with altitude description 1</td>
</tr>
<tr>
<td>RefueAlti1</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 2 to be used with altitude description 1</td>
</tr>
<tr>
<td>RefueAlti2</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 1 to be used with altitude description 2</td>
</tr>
<tr>
<td>RefueAlti3</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 2 to be used with altitude description 2</td>
</tr>
<tr>
<td>RefueAlti4</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 1 to be used with altitude description 3</td>
</tr>
<tr>
<td>RefueAlti5</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude 2 to be used with altitude description 3</td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Remarks are limited to essential information</td>
</tr>
<tr>
<td>SchedUni</td>
<td>String</td>
<td>130</td>
<td>-</td>
<td></td>
<td>General information on scheduling unit (name, area, etc.)</td>
</tr>
<tr>
<td>TankeChann</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Air-to-Air Y-band tacan channel used during refueling operations</td>
</tr>
<tr>
<td>Type</td>
<td>RefuelingOperationType</td>
<td>0-3</td>
<td>-</td>
<td></td>
<td>Type of refueling operation</td>
</tr>
</tbody>
</table>
### 6.3 AirRefuelingControl

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<td>Storage number.</td>
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<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
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</tr>
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<td>ATC controlling airspace where refueling track/anchor is located</td>
</tr>
<tr>
<td>AiTrCoCeRe</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Remarks pertaining to the controlling agency, frequency, frequency direction, or general information</td>
</tr>
<tr>
<td>AtcCenMult</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>2115</td>
<td>Differentiates between different entries for the same ATC center</td>
</tr>
<tr>
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<tr>
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<td>2122</td>
<td>Predominant direction of the refueling track or anchor at the point of entry</td>
</tr>
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<td>Center frequency 1</td>
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</tr>
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<td>Center frequency 3</td>
</tr>
<tr>
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<td>Hz</td>
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<td>Center frequency 4</td>
</tr>
<tr>
<td>Frequency5</td>
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<td>Hz</td>
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<td>Center frequency 5</td>
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<td>-</td>
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<td>Direction in which the specified frequency applies</td>
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<td>Direction in which the specified frequency applies</td>
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<td></td>
<td>Reference Position (longitude, latitude, attitude)</td>
</tr>
<tr>
<td>RefPoiTyp</td>
<td>RefuelingPointType</td>
<td>0-7</td>
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<td></td>
<td>Type of refueling point</td>
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# AirRefuelingFootnote

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<td>Absolute Height above surface level Flag. Always true.</td>
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<td>Associated air refueling record storage number</td>
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<tr>
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<td>Country where the refueling operation is located</td>
</tr>
<tr>
<td>Direction</td>
<td>RefuelingDirection</td>
<td>0-8</td>
<td>-</td>
<td></td>
<td>Predominant direction of the refueling track or anchor at the point of entry</td>
</tr>
<tr>
<td>Footnote</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Footnote</td>
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<td>String</td>
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<td>-</td>
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<tr>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
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## 6.5 AirRefuelingPoint

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<td>Absolute Height above surface level Flag. Always true.</td>
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<tr>
<td>AiReOpIden</td>
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<td>chars</td>
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<td>Air refueling operation identifier</td>
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<tr>
<td>Bearing</td>
<td>Uint32</td>
<td>0-359</td>
<td>Deg</td>
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<td>Bearing TO navaid (brg FROM navaid if DME)</td>
</tr>
<tr>
<td>CoWiNaFla</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if point is collocated with a navaid</td>
</tr>
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</tr>
<tr>
<td>Direction</td>
<td>RefuelingDirection</td>
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<td>-</td>
<td></td>
<td>Predominant direction of the refueling track or anchor at the point of entry</td>
</tr>
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<td>-</td>
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<td>Navaid country</td>
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<td>Navaididen</td>
<td>String</td>
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<td>-</td>
<td></td>
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<td>Navaid key code</td>
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<td>GeoCoordinate</td>
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<td>Position (longitude, latitude, altitude) of refueling point</td>
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<td>-</td>
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### 6.6 AirRefuelingSegment

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<td>-</td>
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<td>GeoCoordinate</td>
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<td>Arc origin position (longitude, latitude, altitude)</td>
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<td>ArcSegmentDerivation</td>
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</tr>
<tr>
<td>Bearing2</td>
<td>Float32</td>
<td>+/-180 Deg</td>
<td>-</td>
<td></td>
<td>Bearing 2 from center coordinates or navaid</td>
</tr>
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<td>CountryEntry</td>
<td>0-336</td>
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<td>Navaid country</td>
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<td>NavaidType</td>
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<td></td>
<td>Navaid type</td>
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<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
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<td></td>
<td>Position (longitude, latitude, altitude) of refueling point</td>
</tr>
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<td>Nm</td>
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<td>Radius 1</td>
</tr>
<tr>
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<td>Nm</td>
<td></td>
<td>Radius 2</td>
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<tr>
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<td></td>
<td>Segment end position (longitude, latitude, altitude)</td>
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<td>2115</td>
<td>Defines relative position of airspace segment</td>
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### 6.7 Airspace Boundary

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<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
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<td>AirwayLevel</td>
<td>0-3</td>
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<td></td>
<td>Airspace structure in which boundary is effective (high/low)</td>
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<td>Flag indicating exceptions to the airspace class</td>
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<tr>
<td>ClaExcRema</td>
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<td>Provides the details of the exception in the airspace</td>
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<tr>
<td>ComCalSig</td>
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<td>2111</td>
<td>Call sign of the communications facilities</td>
</tr>
<tr>
<td>ContrAutho</td>
<td>String</td>
<td>60 chars</td>
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<td></td>
<td>Office responsible for air traffic within airspace</td>
</tr>
<tr>
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<td>CountryEntry</td>
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<td>Hz</td>
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<td>Frequency for communicating with identified facility</td>
</tr>
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<td>Frequenc1</td>
<td>Uint64</td>
<td>-</td>
<td>Hz</td>
<td></td>
<td>Frequency 2 used for communicating with identified facility</td>
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<td>ICAO code of the airspace boundary</td>
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<td>ICAO ident of airspace boundary</td>
</tr>
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<td>LowEffAlti</td>
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<td>-</td>
<td>Ft</td>
<td></td>
<td>Lower vertical limit of the given airspace</td>
</tr>
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<td>Lower effective altitude reference</td>
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<td>Sint32</td>
<td>-</td>
<td>Ft</td>
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<td>Lower vertical limit of the given RVSM airspace</td>
</tr>
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<td>Official name of the airspace boundary</td>
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<td>Reference Position (longitude, latitude, altitude)</td>
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<td>Nm</td>
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<td>Required performance accuracy necessary for operation within airspace</td>
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<td>Ft</td>
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<td>Upper vertical limit of the given airspace</td>
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<td>-</td>
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<td>UppRvsAlti</td>
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<td>-</td>
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### 6.8 AirwayRestriction

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<th>Unit</th>
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<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
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<td>Boolean</td>
<td>-</td>
<td>-</td>
<td>Consider restriction altitude 1 to 2 as a restricted range</td>
</tr>
<tr>
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<td>Boolean</td>
<td>-</td>
<td>-</td>
<td>Consider restriction altitude 2 to 3 as a restricted range</td>
</tr>
<tr>
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<td>Boolean</td>
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<td>-</td>
<td>Consider restriction altitude 3 to 4 as a restricted range</td>
</tr>
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<td>Consider restriction altitude 4 to 5 as a restricted range</td>
</tr>
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<td>-</td>
<td>Consider restriction altitude 5 to 6 as a restricted range</td>
</tr>
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<td>-</td>
<td>Consider restriction altitude 6 to 7 as a restricted range</td>
</tr>
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<td>BlockAltit</td>
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<td>Boolean</td>
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<td>-</td>
<td>Consider restriction altitude 7 as a restricted altitude</td>
</tr>
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<td>0-336</td>
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<td>2116</td>
<td>Country where the start fix point is located</td>
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<td>CruiseTable</td>
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## 6.10 Arrester Gear

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<td>Position (longitude, latitude, altitude) of airport</td>
</tr>
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</tr>
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<td>Distance from the reference given in location reference</td>
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## 6.11 Comms

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<td>Absolute Height above surface level Flag. Always true.</td>
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<td>Ft</td>
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<td>Watt</td>
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<td>Receiver sensitivity</td>
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### 6.12 Controlled Airspace

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<td>Float32</td>
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<td>Nm</td>
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<td>Arc distance (radius of arc from center point)</td>
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<td>Deg</td>
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<td>True bearing from arc origin or navaid</td>
</tr>
<tr>
<td>Bearing2</td>
<td>Float32</td>
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<td>Deg</td>
<td></td>
<td>True bearing from arc origin or navaid</td>
</tr>
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<td>-</td>
<td>Boolean</td>
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<td>End of boundary description - return to origin point</td>
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<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where airspace is located</td>
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<td>Country1</td>
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### 6.13 Enroute Airway

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<td>Fix turn radius 2</td>
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<td>+/- 180 Deg</td>
<td>Inbound course to waypoint in fix ident</td>
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<td>Inbound course reference</td>
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<td>Sint32</td>
<td>- Ft</td>
<td>Maximum altitude for segment</td>
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<td>MaxAltAlti</td>
<td>Sint32</td>
<td>- Ft</td>
<td>Maximum altitude for airway</td>
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<td>Sint32</td>
<td>- Ft</td>
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<td>Sint32</td>
<td>- Ft</td>
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<td>- Ft</td>
<td>Minimum altitude limit for airway</td>
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<td>+/- 180 Deg</td>
<td>Outbound course from waypoint in fix ident</td>
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<td>Outbound course reference</td>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>Position (longitude, latitude, altitude) of waypoint</td>
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<td>ReNaIcCod</td>
<td>String</td>
<td>4 chars</td>
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<td>String</td>
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<td>Required navigation performance</td>
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<td>AtsRouteSegmentType</td>
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<td>ATS route segment type</td>
<td></td>
<td></td>
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<td>RouteStatus</td>
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<td>ATS route status</td>
<td></td>
<td></td>
</tr>
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<td>RvsmFlag</td>
<td>Logical</td>
<td>Boolean</td>
<td>Reduced vertical separation minima</td>
<td></td>
<td></td>
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<td>SequeNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>Sequence number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>StateName</td>
<td>StateEntry</td>
<td>0-51</td>
<td>State through which ATS route passes</td>
<td></td>
<td></td>
</tr>
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<td>TransRadiu</td>
<td>Float32</td>
<td>-</td>
<td>Transition radius</td>
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<td>WaypoDescr</td>
<td>WaypointDescription</td>
<td>0-15</td>
<td>Waypoint description</td>
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<tr>
<td>WaypDist</td>
<td>Float32</td>
<td>- Nm</td>
<td>Nautical miles between fix point and recommended navaid</td>
<td></td>
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<td>WayMagBear</td>
<td>Float32</td>
<td>+/180 Deg</td>
<td>Magnetic bearing between fix point and recommended navaid</td>
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### 6.14 FirUir

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<td>-</td>
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<td>Absolute Height above surface level Flag. Always true.</td>
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<tr>
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<td>-</td>
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<td>AltitUni</td>
<td>AltitudeUnit</td>
<td>0-3</td>
<td>-</td>
<td></td>
<td>Unit used in specific FIR/UIR to fulfill requirement of ICAO flight plan</td>
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<td>ArcBearing</td>
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<td>+/-180</td>
<td>Deg</td>
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<td>Arc bearing</td>
</tr>
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<td>ArcDistanc</td>
<td>Float32</td>
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<td>Arc distance</td>
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<td>Nm</td>
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<td>Arc distance (radius of arc from center point)</td>
</tr>
<tr>
<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Arc origin position (longitude, latitude, altitude)</td>
</tr>
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<td>ArcSegDeri</td>
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<td>0-3</td>
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<td>Indicates how the arc segment is defined</td>
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<td>Deg</td>
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<td>True bearing from arc origin or navaid</td>
</tr>
<tr>
<td>Bearing2</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>True bearing from arc origin or navaid</td>
</tr>
<tr>
<td>BoundEn</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>End of boundary description - return to origin point</td>
</tr>
<tr>
<td>BoundShap</td>
<td>BoundaryShape</td>
<td>0-8</td>
<td>-</td>
<td></td>
<td>Boundary shape type</td>
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<td></td>
<td>Country through which the boundary passes</td>
</tr>
<tr>
<td>Country2</td>
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<td>Country through which the boundary passes</td>
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<td>Country3</td>
<td>CountryEntry</td>
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<td>Country through which the boundary passes</td>
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<td></td>
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</tr>
<tr>
<td>CruiTabl</td>
<td>CruiseTable</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Cruise table applicable</td>
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<tr>
<td>EntRepRequ</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Entry report required for FIR/UIR</td>
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<tr>
<td>FirUppLiml</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>2122</td>
<td>FIR Upper Limit</td>
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<td>CommsFlightType</td>
<td>0-4</td>
<td>-</td>
<td>2122</td>
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<td></td>
<td>FIR/UIR ICAO code</td>
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<tr>
<td>Iden</td>
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<td>6 chars</td>
<td>-</td>
<td>2102</td>
<td>FIR/UIR Ident</td>
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<td>String</td>
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<td>-</td>
<td></td>
<td>Fir/Uir name</td>
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<tr>
<td>NavaiCount</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td></td>
<td>Country in which navaid is located</td>
</tr>
<tr>
<td>Navaiden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td></td>
<td>Navaid identifier</td>
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<tr>
<td>NavKeyCod</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Distinguish between same type navaid with same ident and country</td>
</tr>
<tr>
<td>NavaidType</td>
<td>NavaidType</td>
<td>0-15</td>
<td>-</td>
<td></td>
<td>Navaid type</td>
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<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude)</td>
</tr>
<tr>
<td>SequeNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Sequence number</td>
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<td>0-3</td>
<td>-</td>
<td></td>
<td>Unit used in specific FIR/UIR to fulfill requirement of ICAO flight plan</td>
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<td>Ft</td>
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<td>Ft</td>
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<td>UIR Lower limit</td>
</tr>
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<td>Ft</td>
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## 6.15 Gate

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<td>Storage number.</td>
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<td>-</td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
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<td>-</td>
<td>Airline assigned to gate</td>
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<tr>
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<td>String</td>
<td>4 chars</td>
<td>-</td>
<td>-</td>
<td>ICAO code of the associated airport</td>
</tr>
<tr>
<td>Airpolden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>2102</td>
<td>Identifier of the associated airport</td>
</tr>
<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Storage number of the associated airport</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the gate is located</td>
</tr>
<tr>
<td>Ident</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>2108</td>
<td>Gate identifier</td>
</tr>
<tr>
<td>Name</td>
<td>String</td>
<td>50 chars</td>
<td>-</td>
<td>-</td>
<td>Name commonly applied to the gate</td>
</tr>
<tr>
<td>Orientatio</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td>-</td>
<td>Orientation of gate (bearing)</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) of gate</td>
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## 6.16 GLS

<table>
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<tr>
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<th>Data Type</th>
<th>Range</th>
<th>Unit</th>
<th>Key</th>
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<tbody>
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<td>Storage number.</td>
</tr>
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<td>AHGT</td>
<td>Logical</td>
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<td></td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>Airpolden</td>
<td>String</td>
<td>6 chars</td>
<td></td>
<td>2102</td>
<td>Ident of the associated airport</td>
</tr>
<tr>
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<td>Uint64</td>
<td>-</td>
<td></td>
<td></td>
<td>Storage number of the associated airport</td>
</tr>
<tr>
<td>ApproSlop</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Glideslope angle of the GLS approach</td>
</tr>
<tr>
<td>Bearing</td>
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<td>+/-180</td>
<td>Deg</td>
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<td>Localizer bearing of GLS approach</td>
</tr>
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<td>Category</td>
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<td>Category/Class of the GLS</td>
</tr>
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<td></td>
<td>Channel decoded to identify frequency of differential GLS ground station and approach info sent by diff. GLS ground station</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td></td>
<td>2116</td>
<td>Country where the GLS is located</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4 chars</td>
<td></td>
<td>2103</td>
<td>ICAO code</td>
</tr>
<tr>
<td>Ident</td>
<td>String</td>
<td>6 chars</td>
<td></td>
<td>2108</td>
<td>GLS reference path identifier</td>
</tr>
<tr>
<td>LocatIden</td>
<td>String</td>
<td>10 chars</td>
<td></td>
<td></td>
<td>Airport or heliport ICAO location identifier code where transmitter is installed</td>
</tr>
<tr>
<td>MagneVaria</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Magnetic variation</td>
</tr>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
<td></td>
<td></td>
<td>Station position (longitude, latitude, altitude)</td>
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<td>RunwIden</td>
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<td>-</td>
<td></td>
<td></td>
<td>Storage number of the associated runway</td>
</tr>
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<td>SerVolRadi</td>
<td>Uint32</td>
<td>-</td>
<td>Nm</td>
<td></td>
<td>Radius of service volume around transmitter</td>
</tr>
<tr>
<td>StatiTyp</td>
<td>GlsStationType</td>
<td>0-2</td>
<td></td>
<td></td>
<td>Type of differential ground station (eg: LAAS/GLS or SCAT-1)</td>
</tr>
<tr>
<td>TdmaSlot</td>
<td>String</td>
<td>30 chars</td>
<td></td>
<td></td>
<td>Time division multiple access (TDMA) slot in which ground station transmits related approach</td>
</tr>
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### 6.17 Helipad

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Data Type</th>
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<th>Unit</th>
<th>Key</th>
<th>Description</th>
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<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
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<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AircrTyp</td>
<td>String</td>
<td>10 chars</td>
<td>-</td>
<td></td>
<td>Aircraft type known to have used helipad in last 5 years.</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) of the helipad approach end.</td>
</tr>
<tr>
<td>Bearing</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Magnetic bearing.</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Helipad country.</td>
</tr>
<tr>
<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) of the displaced threshold (latitude, longitude, elevation).</td>
</tr>
<tr>
<td>HelipClose</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if the helipad is closed or unusable.</td>
</tr>
<tr>
<td>HelicaCod</td>
<td>String</td>
<td>4 chars</td>
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<td>2103</td>
<td>Associated Heliport ICAO code.</td>
</tr>
<tr>
<td>HelipIden</td>
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<td>6 chars</td>
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<td>2108</td>
<td>Associated Heliport identifier.</td>
</tr>
<tr>
<td>HelStoNumb</td>
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<td>-</td>
<td>-</td>
<td></td>
<td>Associated Heliport storage number.</td>
</tr>
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<td>Ident</td>
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<td>2102</td>
<td>Helipad identifier.</td>
</tr>
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<td>Ft</td>
<td></td>
<td>Helipad length.</td>
</tr>
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<td>LightSyst1</td>
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<td></td>
<td>Lighting system 1.</td>
</tr>
<tr>
<td>LightSyst2</td>
<td>LightingSystem</td>
<td>0-64</td>
<td>-</td>
<td></td>
<td>Lighting system 2.</td>
</tr>
<tr>
<td>PadShape</td>
<td>PadShape</td>
<td>0-2</td>
<td>-</td>
<td></td>
<td>Shape of helipad (circular or rectangular).</td>
</tr>
<tr>
<td>SequenNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>2115</td>
<td>Sequence number to differentiate helipads at same heliport.</td>
</tr>
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<td>Slope</td>
<td>Float32</td>
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<td>%</td>
<td></td>
<td>Helipad gradient</td>
</tr>
<tr>
<td>Point3</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, elevation) of the helipad stop end.</td>
</tr>
<tr>
<td>StopwLengt</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Length of the area beyond the takeoff helipad.</td>
</tr>
<tr>
<td>StoSurTyp</td>
<td>RunwaySurfaceType</td>
<td>0-21</td>
<td>-</td>
<td></td>
<td>Stopway surface type.</td>
</tr>
<tr>
<td>SurfTyp</td>
<td>RunwaySurfaceType</td>
<td>0-21</td>
<td>-</td>
<td></td>
<td>Helipad surface type.</td>
</tr>
<tr>
<td>TakeoDista</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Takeoff distance available.</td>
</tr>
<tr>
<td>TrueBearin</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Helipad true bearing.</td>
</tr>
<tr>
<td>TruNorRefe</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>True North reference flag.</td>
</tr>
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<td>Ft</td>
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<td>Helipad width.</td>
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</table>
## 6.18 Heliport

<table>
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<tr>
<th>Attribute Name</th>
<th>Data Type</th>
<th>Range</th>
<th>Unit</th>
<th>Key</th>
<th>Description</th>
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<tbody>
<tr>
<td>StoraNumbe</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AlterNam</td>
<td>String</td>
<td>50</td>
<td>chars</td>
<td>-</td>
<td>Alternate name other than the official name that can be used occasionally.</td>
</tr>
<tr>
<td>AsCoStNumb</td>
<td>Uint64</td>
<td>-</td>
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<td>Associated Comms record storage number</td>
</tr>
<tr>
<td>BeacoAvail</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if a rotating beacon is present.</td>
</tr>
<tr>
<td>City</td>
<td>String</td>
<td>50</td>
<td>chars</td>
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<td>Heliport city name.</td>
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<td>CivMilTyp</td>
<td>CivilMilitaryType</td>
<td>0-6</td>
<td></td>
<td></td>
<td>Heliport usage type (civil, military, etc.).</td>
</tr>
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<td>ClearStatu</td>
<td>ClearanceStatus</td>
<td>0-3</td>
<td></td>
<td>-</td>
<td>Clearance status.</td>
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<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the heliport is located.</td>
</tr>
<tr>
<td>DayliTim</td>
<td>Float32</td>
<td>+/-24</td>
<td>Hrs</td>
<td></td>
<td>Difference to Zulu time based on the daylight saving time.</td>
</tr>
<tr>
<td>DayTimFram</td>
<td>String</td>
<td>100</td>
<td>chars</td>
<td>-</td>
<td>Timeframe when daylight saving time is observed by a country.</td>
</tr>
<tr>
<td>FlipPage</td>
<td>String</td>
<td>75</td>
<td>chars</td>
<td>-</td>
<td>Related pages for that heliport in the companion FLIP.</td>
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<td>FuelType</td>
<td>String</td>
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<td>Fuel type available.</td>
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<td>HydElePres</td>
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<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indication of the presence of an hydrographic element near the heliport.</td>
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<tr>
<td>IataCode</td>
<td>String</td>
<td>6</td>
<td>chars</td>
<td>2106</td>
<td>Heliport IATA designator.</td>
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<td>IcaoCode</td>
<td>String</td>
<td>4</td>
<td>chars</td>
<td>2103</td>
<td>Heliport ICAO area code.</td>
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<td>6</td>
<td>chars</td>
<td>2102</td>
<td>Heliport ICAO ident.</td>
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<tr>
<td>IfrCapabil</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Indicates if the heliport has published IFR approaches.</td>
</tr>
<tr>
<td>IslanGrou</td>
<td>String</td>
<td>50</td>
<td>chars</td>
<td>-</td>
<td>Heliport associated with islands or group of islands.</td>
</tr>
<tr>
<td>Jasu</td>
<td>String</td>
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<td>chars</td>
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<td>Type of Jet Aircraft Starting Units (JASU) available.</td>
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<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Magnetic variation.</td>
</tr>
<tr>
<td>MagTruIndi</td>
<td>MagneticTrueIndication</td>
<td>0-6</td>
<td></td>
<td></td>
<td>Indicates if the details and procedures are given relative to Magnetic or True North.</td>
</tr>
<tr>
<td>MgrsPositi</td>
<td>String</td>
<td>20</td>
<td>chars</td>
<td>-</td>
<td>MGRS position given using the UTM or the UPS grid.</td>
</tr>
<tr>
<td>Name</td>
<td>String</td>
<td>100</td>
<td>chars</td>
<td>-</td>
<td>Official name.</td>
</tr>
<tr>
<td>NavlcaCod</td>
<td>String</td>
<td>4</td>
<td>chars</td>
<td>-</td>
<td>Recommended navaid ICAO code.</td>
</tr>
<tr>
<td>Navailden</td>
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<td>chars</td>
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<td>chars</td>
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<td>Type of oil available.</td>
</tr>
<tr>
<td>OperaHour</td>
<td>OperatingHours</td>
<td>0-4</td>
<td></td>
<td></td>
<td>Operating hours of the heliport.</td>
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<tr>
<td>PadDimensi</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Pad dimension.</td>
</tr>
<tr>
<td>PadDimens1</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Pad dimension.</td>
</tr>
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<td>String</td>
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<td>chars</td>
<td>2108</td>
<td>Helipad identifier.</td>
</tr>
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<td>PadShape</td>
<td>0-2</td>
<td>-</td>
<td></td>
<td>Pad shape.</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td></td>
<td></td>
<td>Position (longitude, latitude, altitude) of the NavObject.</td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Essential remarks for terminal procedures.</td>
</tr>
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<td>ServiRemar</td>
<td>String</td>
<td>memo</td>
<td>-</td>
<td></td>
<td>Service remarks for airport.</td>
</tr>
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<td>Field</td>
<td>Type</td>
<td>Default</td>
<td>Description</td>
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<td>-----------</td>
<td>---------</td>
<td>------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SpeedLimit</td>
<td>Uint32</td>
<td>-</td>
<td>Kts</td>
<td>Speed limit in knots.</td>
<td></td>
</tr>
<tr>
<td>SpeLimAlti</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>Altitude below where speed limits may be imposed</td>
<td></td>
</tr>
<tr>
<td>StateName</td>
<td>StateEntry</td>
<td>0-51</td>
<td>-</td>
<td>State or province where the heliport is located.</td>
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<tr>
<td>SupFluTyp</td>
<td>String</td>
<td>50 chars</td>
<td>-</td>
<td>Type of available fluids/system/oxygen/nitrogen.</td>
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<td>TerraImpac</td>
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<td>Boolean</td>
<td>-</td>
<td>Indicates a terrain impact on the heliport.</td>
<td></td>
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<tr>
<td>Timezone</td>
<td>Float32</td>
<td>+/-24</td>
<td>Hrs</td>
<td>Difference to Zulu time.</td>
<td></td>
</tr>
<tr>
<td>TransAllit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>Upper altitude limit for which the vertical position of an A/C is controlled by reference to altitudes (MSL).</td>
<td></td>
</tr>
<tr>
<td>TransLeve</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>Lowest flight level available to use above the transition altitude.</td>
<td></td>
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### 6.19 HoldingPattern

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Data Type</th>
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<th>Unit</th>
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<td>Storage number.</td>
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<td>AHGT</td>
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<td>Absolute Height above surface level Flag. Always true.</td>
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<td>String</td>
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<td>Identifier of the associated airport</td>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
<td></td>
<td></td>
<td>Position (longitude, latitude, altitude) of airport</td>
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<td></td>
<td>Storage number of the associated airport</td>
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<tr>
<td>ArcRadius</td>
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<td>Nm</td>
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<td>Turning radius, inbound to outbound leg, for RNP Holding</td>
</tr>
<tr>
<td>Country</td>
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<td>0-336</td>
<td></td>
<td>2116</td>
<td>Country where the holding pattern applies</td>
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<td>DupliIden</td>
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<td>6 chars</td>
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<td>2108</td>
<td>Duplicate identifier</td>
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<tr>
<td>FixCountry</td>
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<td>0-336</td>
<td></td>
<td></td>
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<td>Fix ICAO Code</td>
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<td>Fix identifier</td>
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<td>FixRecordType</td>
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<td>Record type of fix point</td>
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<td>Fix point storage number</td>
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<td>HoldiCours</td>
<td>Float32</td>
<td>+/-180 Deg</td>
<td></td>
<td></td>
<td>Inbound holding course</td>
</tr>
<tr>
<td>HoPaTuDire</td>
<td>PathTurnDirection</td>
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<td>Holding pattern turn direction</td>
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<td>HoldiSpee</td>
<td>Uint32</td>
<td>-</td>
<td>Kts</td>
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<td>Holding pattern maximum speed in knots</td>
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<td>Nm</td>
<td></td>
<td>Leg length in nautical miles</td>
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<tr>
<td>LegTime</td>
<td>Float32</td>
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<td>Min</td>
<td></td>
<td>Leg time in minutes</td>
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<td>MagneticTrueIndication</td>
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<td></td>
<td></td>
<td>Indicates if magnetic course</td>
</tr>
<tr>
<td>MaximAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Maximum altitude</td>
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<td>MinimAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Minimum altitude</td>
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<td>String</td>
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<td>Name commonly applied to the holding pattern</td>
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<tr>
<td>NavalCount</td>
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<td>Country of navaid collocated with waypoint</td>
</tr>
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<td>NavalIden</td>
<td>String</td>
<td>6 chars</td>
<td></td>
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<td>Identifier of navaid collocated with waypoint</td>
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<td>ReqNavPerf</td>
<td>Float32</td>
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<td>Nm</td>
<td></td>
<td>Required navigation performance</td>
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<tr>
<td>TrackDescr</td>
<td>TrackDescription</td>
<td>0-3</td>
<td></td>
<td></td>
<td>Defines track geometry for single terminal segment record</td>
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## 6.20 Ils

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<th>Unit</th>
<th>Key</th>
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<td>StoraNumbe</td>
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<td>Storage number.</td>
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<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
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<tr>
<td>AirIcaCod</td>
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<td>4 chars</td>
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<td>2103</td>
<td>ICAO code of the associated airport.</td>
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<td>AirpoIden</td>
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<td>Idnet of the associated airport.</td>
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<td>Idnet of the associated approach route 1.</td>
</tr>
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<td>IlsBackCourse</td>
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<td>+/-180 Deg</td>
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<td>Localizer magnetic bearing.</td>
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<td>BeariRefer</td>
<td>MagneticTrueIndication</td>
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<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the ILS is located.</td>
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<tr>
<td>Declinatio</td>
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<td>+/-180 Deg</td>
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<td></td>
<td>Station declination.</td>
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<td>-</td>
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<td>Boolean</td>
<td>-</td>
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<td>GlideAngl</td>
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<td>Glideslope angle.</td>
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<td>GlideBeamw</td>
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<td>Glideslope beamwidth.</td>
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<td>ILS glideslope magnetic variation.</td>
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<tr>
<td>Point3</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) of the glideslope emitter.</td>
</tr>
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<td>GliXOffse</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
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<td>Glideslope X offset.</td>
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<td>GliYOffse</td>
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<td>-</td>
<td>Ft</td>
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<td>Glideslope Y offset.</td>
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<td>String</td>
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<td>Localizer ICAO ident.</td>
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<td>Ft</td>
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<td>String</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NavStoNumb</td>
<td>Uint64</td>
<td>- Storage number of the associated navaid.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z Reference Position (longitude, latitude, altitude)</td>
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</tr>
<tr>
<td>Runwalden</td>
<td>String</td>
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<tr>
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<td>- Storage number of the associated runway.</td>
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<tr>
<td>SynchTyp</td>
<td>SynchronisationType</td>
<td>0-2 Synchronization type.</td>
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<td></td>
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<tr>
<td>ThrCroHeig</td>
<td>Uint32</td>
<td>- Ft Height above the landing threshold on a normal glidepath.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TrueBearin</td>
<td>Float32</td>
<td>+/-180 Deg Localizer true bearing.</td>
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## 6.21 Marker

<table>
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<th>Unit</th>
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<th>Description</th>
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<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
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<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
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<td>2108</td>
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<td>-</td>
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<td>Storage number of the associated airport/heliport</td>
</tr>
<tr>
<td>AssocNavai</td>
<td>AssociatedNavaid</td>
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<td></td>
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<td>Navaid channel.</td>
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<td>Country</td>
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<td>Frequency</td>
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<td>Hz</td>
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<td>-</td>
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<td>String</td>
<td>6 chars</td>
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<td>2102</td>
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<td>Deg</td>
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<td>Nm</td>
<td></td>
<td>Location from the approach end of the runway</td>
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<td>LocatCollo</td>
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<td>-</td>
<td></td>
<td>Locator collocation flag</td>
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<td>-</td>
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<td>Associated locator storage number</td>
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<td>Deg</td>
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<td>+/-180</td>
<td>Deg</td>
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<td>True bearing of the marker minor axis</td>
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<td>String</td>
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<td></td>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Marker position (longitude, latitude, altitude)</td>
</tr>
<tr>
<td>Runwlden</td>
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<td>Ident of the associated runway</td>
</tr>
<tr>
<td>RunStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>2111</td>
<td>Storage number of the associated runway</td>
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### 6.22 MilitaryTrainingRoute

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<th>Unit</th>
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<th>Description</th>
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<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
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<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the military training route originates</td>
</tr>
<tr>
<td>EffecTime</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Hours, days and/or dates that military training route is in effect</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4 chars</td>
<td>-</td>
<td></td>
<td>ICAO code of air traffic controlling authority where route originates</td>
</tr>
<tr>
<td>IdEnt</td>
<td>String</td>
<td>10 chars</td>
<td>-</td>
<td>2102</td>
<td>Designation of the military training route</td>
</tr>
<tr>
<td>OriMilUni</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Military unit designated as the originating activity</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Reference Position (longitude, latitude, altitude)</td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
<td>Memo</td>
<td>-</td>
<td></td>
<td>Remarks are limited to terrain following ops, special operating proc., flight service stations (100nm radius) &amp; SR remarks</td>
</tr>
<tr>
<td>SchMilUni</td>
<td>String</td>
<td>100 chars</td>
<td>-</td>
<td></td>
<td>Military unit responsible for scheduling training route flights</td>
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<tr>
<td>Type</td>
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<td>-</td>
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### Military Training Route Airspace

<table>
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<th>Range</th>
<th>Unit</th>
<th>Key</th>
<th>Description</th>
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<td>-</td>
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<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
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<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>ActPolden</td>
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<td>4 chars</td>
<td>-</td>
<td></td>
<td>Id of the action point within the military training route</td>
</tr>
<tr>
<td>MiTrRoIden</td>
<td>String</td>
<td>10 chars</td>
<td>-</td>
<td>2102</td>
<td>Military training route identifier</td>
</tr>
<tr>
<td>MiTrRoStNu</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Associated military training route storage number</td>
</tr>
<tr>
<td>MTROSNumbe</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Associated military training route overlay storage number</td>
</tr>
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<td>4 chars</td>
<td>-</td>
<td></td>
<td>Id of the next action point within the military training route</td>
</tr>
<tr>
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<td>GeoCoordinate</td>
<td>x,y,z</td>
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<td></td>
<td>Reference Position (longitude, latitude, altitude)</td>
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<tr>
<td>Sector</td>
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<td>-</td>
<td></td>
<td>Designation for the section of the special use airspace</td>
</tr>
<tr>
<td>SegmeNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>2115</td>
<td>Defines relative position of segment in military training route airspace</td>
</tr>
<tr>
<td>SequeNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>2120</td>
<td>Defines order of special use airspace (SUAS) or military operations area (MOA) identifiers</td>
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<tr>
<td>SpUsAiIden</td>
<td>String</td>
<td>18 chars</td>
<td>-</td>
<td></td>
<td>Special use airspace or military operations area identifier</td>
</tr>
<tr>
<td>SpUsAiStNu</td>
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### 6.24 MilitaryTrainingRouteDescription

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<th>Description</th>
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<td>Storage number.</td>
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<td>-</td>
<td>-</td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>ActPoiIden</td>
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<td>2108</td>
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<td>AddRouInfo</td>
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<td>100 chars</td>
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<td>-</td>
<td>Info vital to execution of military training route at a specific point to the next point</td>
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<tr>
<td>Bearing</td>
<td>Float32</td>
<td>+/-180 Deg</td>
<td>-</td>
<td>-</td>
<td>Bearing from DME or bearing to non-DME navaid</td>
</tr>
<tr>
<td>CoWiNaFla</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td>-</td>
<td>Point collocated with navaid flag</td>
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<td>-</td>
<td>-</td>
<td>Country where the point is located</td>
</tr>
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<td>CrossAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>-</td>
<td>Crossing altitude 1</td>
</tr>
<tr>
<td>CroAltRefe</td>
<td>AltitudeReference</td>
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<td>-</td>
<td>-</td>
<td>Crossing altitude 1 reference</td>
</tr>
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<td>CrossAltit1</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
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<td>Crossing altitude 2</td>
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<td>AltitudeReference</td>
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<td>Crossing altitude 2 reference</td>
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<td>-</td>
<td>Indicates how the crossing altitude(s) should be applied</td>
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<td>Nm</td>
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<td>Range from non-DME navaid or slant range from DME</td>
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<td>EnrouAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
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<td>Enroute altitude 1</td>
</tr>
<tr>
<td>EnrAltRefe</td>
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<td>-</td>
<td>Enroute altitude 1 reference</td>
</tr>
<tr>
<td>EnrouAltit1</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td>-</td>
<td>Enroute altitude 2</td>
</tr>
<tr>
<td>EnrAltRef1</td>
<td>AltitudeReference</td>
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<td>-</td>
<td>-</td>
<td>Enroute altitude 2 reference</td>
</tr>
<tr>
<td>EnrAltDesc</td>
<td>RouteAltitudeDescription</td>
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<td>-</td>
<td>Indicates how the enroute altitude(s) should be applied</td>
</tr>
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<td>-</td>
<td>ICAO code</td>
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<td>Military training route identifier</td>
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<td>-</td>
<td>-</td>
<td>Associated military training route storage number</td>
</tr>
<tr>
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<td>Uint32</td>
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<td>-</td>
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<td>Navaid type</td>
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<td>String</td>
<td>4 chars</td>
<td>-</td>
<td>-</td>
<td>Ident of next action point within a military training route</td>
</tr>
<tr>
<td>PointFunct</td>
<td>PointFunction</td>
<td>0-6</td>
<td>-</td>
<td>-</td>
<td>Function of the point</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td>-</td>
<td>Position of point (longitude, latitude, altitude)</td>
</tr>
<tr>
<td>RouWidLef</td>
<td>Float32</td>
<td>-</td>
<td>Nm</td>
<td>-</td>
<td>Route width to left of centerline to the next point</td>
</tr>
<tr>
<td>RouWidRigh</td>
<td>Float32</td>
<td>-</td>
<td>Nm</td>
<td>-</td>
<td>Route width to right of centerline to the next point</td>
</tr>
<tr>
<td>TurnDirect</td>
<td>PathTurnDirection</td>
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<td>-</td>
<td>-</td>
<td>Specific direction in which a turn is to be made</td>
</tr>
<tr>
<td>TurnRadius</td>
<td>Float32</td>
<td>-</td>
<td>Nm</td>
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<td>Turn radius around a point</td>
</tr>
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### 6.25 MilitaryTrainingRouteOverlay

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<th>Unit</th>
<th>Key</th>
<th>Description</th>
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<tr>
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<td>-</td>
<td>-</td>
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<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
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<td>Value</td>
<td>Description</td>
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<td></td>
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<td>-----------------------</td>
<td>------------</td>
<td>-------</td>
<td>-----------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AcPoBiSeAn</td>
<td>Float32</td>
<td>+/-180 Deg</td>
<td>Bi-section path angle for the next point based on next segment path (acute angle to that path)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ActPoiFunc</td>
<td>PointFunction</td>
<td>0-6</td>
<td>Function of the action point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ActPoiIden</td>
<td>String</td>
<td>4 chars</td>
<td>Ident of the action point within the military training route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>Position (longitude, latitude, altitude) of the action point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AcPoRoWiLe</td>
<td>Float32</td>
<td>- Nm</td>
<td>Route width to left of action point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AcPoRoWiRi</td>
<td>Float32</td>
<td>- Nm</td>
<td>Route width to right of action point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AcPoTuDire</td>
<td>PathTurnDirection</td>
<td>0-2</td>
<td>Specific direction in which a turn is to be made</td>
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### 6.27 Msa

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<td>CompoTyp</td>
<td>ComponentType</td>
<td>0-10</td>
<td>-</td>
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<td>Component type (e.g.: DME, locator, etc.)</td>
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<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the navaid is located</td>
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<td>Declinatio</td>
<td>Float32</td>
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<td>Deg</td>
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<td>Station declination</td>
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<tr>
<td>DecliRefer</td>
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<td>0-6</td>
<td>-</td>
<td>Magnetic, True, or other (grid direction)</td>
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<td>Frequency protection altitude</td>
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<td>Localizer bearing</td>
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<td>Magnetic, True, or other (grid direction)</td>
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<td>String</td>
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<td></td>
<td></td>
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<td>StateEntry</td>
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<td>ThrCroHeig</td>
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<td>String</td>
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<td>Boolean</td>
<td></td>
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<td>VoiOnFrequ</td>
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<td>String</td>
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</tr>
</tbody>
</table>

Position (longitude, latitude, altitude) of the NavObject

Navaid power capacity

Precision vs non-precision DME

Navaid radio class code

Navaid power capacity

Navaid range reliability

NDB repetition rate [number of occurrences per minute]

Distance to associated runway

Associated runway identifier

State or province name where the navaid is located

Navaid status

Navaid synchronization type

Threshold crossing height

Navaid type

Flag indicating if navaid is a VHF navaid.

Voice identifier file name and path

Voice identifier present flag

Voice on frequency presence flag

Voice on frequency file link

Weather broadcast information

Weather broadcast file link
### 6.29 Off Route Terrain Clearance Altitude

<table>
<thead>
<tr>
<th>Attribute Name</th>
<th>Data Type</th>
<th>Range</th>
<th>Unit</th>
<th>Key</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
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<td>-</td>
<td>-</td>
<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AlterIden</td>
<td>String</td>
<td>8 chars</td>
<td></td>
<td>2108</td>
<td>Alternate OffRouteTerrainClearanceAlt identifier</td>
</tr>
<tr>
<td>Altitude</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude: 1000ft clearance in non-mountainous &amp; 2000ft in mountainous areas of US and 3000ft clearance for NIMA products.</td>
</tr>
<tr>
<td>Identi</td>
<td>String</td>
<td>8 chars</td>
<td></td>
<td>2102</td>
<td>OffRouteTerrainClearanceAlt identifier</td>
</tr>
<tr>
<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>North east corner (longitude, latitude, altitude) of the cell in which altitude applies</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>North west corner (longitude, latitude, altitude) of the cell in which altitude applies</td>
</tr>
<tr>
<td>Point3</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>South east corner (longitude, latitude, altitude) of the cell in which altitude applies</td>
</tr>
<tr>
<td>Point4</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>South west corner (longitude, latitude, altitude) of the cell in which altitude applies</td>
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### 6.30 ParachuteJumpArea

<table>
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<td>-</td>
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<td>Storage number.</td>
</tr>
<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AltitRefer</td>
<td>AltitudeReference</td>
<td>0-4</td>
<td>-</td>
<td></td>
<td>Altitude reference (eg: AMSL, AGL, etc.)</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the parachute jump area is located</td>
</tr>
<tr>
<td>EffecAltit</td>
<td>Sint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Altitude for which the area is effective</td>
</tr>
<tr>
<td>EffecTim</td>
<td>String</td>
<td>50</td>
<td>chars</td>
<td></td>
<td>Indicates hours, dates, or condition of operation</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4</td>
<td>chars</td>
<td>-</td>
<td>ICAO region code</td>
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<td>Ident</td>
<td>String</td>
<td>8</td>
<td>chars</td>
<td>-</td>
<td>2102 DAFIF parachute jump area identifier</td>
</tr>
<tr>
<td>Name</td>
<td>String</td>
<td>50</td>
<td>chars</td>
<td>-</td>
<td>Official name assigned to the jump area</td>
</tr>
<tr>
<td>OperaHour</td>
<td>String</td>
<td>20</td>
<td>chars</td>
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<td>Actual hours of operation</td>
</tr>
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<td>chars</td>
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<td>Operating times of the area</td>
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<td>x,y,z</td>
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<td></td>
<td>Reference Position (longitude, latitude, altitude)</td>
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<td>StateName</td>
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<td>0-51</td>
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### 6.31 ParachuteJumpAreaBoundary

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<td>Storage number.</td>
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<td>Absolute Height above surface level Flag. Always true.</td>
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<td>ArcSegDeri</td>
<td>ArcSegmentDerivation</td>
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<tr>
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<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Bearing from navigational aid to designated area</td>
</tr>
<tr>
<td>Bearing2</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Bearing from navigational aid to designated area</td>
</tr>
<tr>
<td>BoundShap</td>
<td>BoundaryShape</td>
<td>0-8</td>
<td>-</td>
<td></td>
<td>Type of area point being plotted by positions, radii, etc.</td>
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<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
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<td></td>
<td>Position (longitude, latitude, altitude) of circle or arc center</td>
</tr>
<tr>
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<td>CountryEntry</td>
<td>0-336</td>
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<td>2116</td>
<td>Country in which boundary segment is located</td>
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<td>Nm</td>
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<td>Nm</td>
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<td>Navaid position (longitude, latitude, altitude)</td>
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<td>Nm</td>
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<td>Radius of arc or circle from the center position</td>
</tr>
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<td>Nm</td>
<td></td>
<td>Radius of arc or circle from the center position</td>
</tr>
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<td>x,y,z</td>
<td>-</td>
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<td>Reference Position (longitude, latitude, altitude)</td>
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<td>x,y,z</td>
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<td></td>
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6.32 PathPoint

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<th>Unit</th>
<th>Key</th>
<th>Description</th>
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<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>Airpolden</td>
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<td>6 chars</td>
<td>-</td>
<td>2102</td>
<td>Associated airport/heliport identifier</td>
</tr>
<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Associated airport/heliport storage number</td>
</tr>
<tr>
<td>AppPerDesi</td>
<td>ApproachPerformance</td>
<td>0-0</td>
<td>-</td>
<td></td>
<td>Indicates the category type of the approach (APD)</td>
</tr>
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<td>AppRoulden</td>
<td>String</td>
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<td>-</td>
<td></td>
<td>Identifier of the approach route to be flown</td>
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<tr>
<td>AppSegTyp</td>
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<td>-</td>
<td></td>
<td>Type of the final approach segment (operations type)</td>
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<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country in which the airport/heliport is located</td>
</tr>
<tr>
<td>FlPaAlElHeig</td>
<td>Sint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Surveyed height in reference to WGS-84 ellipsoid</td>
</tr>
<tr>
<td>FlPaAlOrHe</td>
<td>Sint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Surveyed height in reference to Mean Sea Level (MSL)</td>
</tr>
<tr>
<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Flight path alignment point (FPAP) position (longitude, latitude, altitude)</td>
</tr>
<tr>
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<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Intended descent angle for final approach flight path</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4 chars</td>
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<td></td>
<td>ICAO code for the airport/heliport</td>
</tr>
<tr>
<td>LaThElHeig</td>
<td>Sint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Surveyed height in reference to WGS-84 ellipsoid</td>
</tr>
<tr>
<td>LaThOrHeig</td>
<td>Sint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Surveyed height in reference to Mean Sea Level (MSL)</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Landing threshold point (LTP) position (longitude, latitude, altitude)</td>
</tr>
<tr>
<td>LengtOffse</td>
<td>Uint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Distance from stop end of runway (SER) to the FPAP</td>
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<tr>
<td>RePaDaSele</td>
<td>PathDataSelector</td>
<td>0-0</td>
<td>-</td>
<td></td>
<td>Reference path data selector enables automatic tuning of a procedure by Ground Based Augmentation Systems (GBAS) avionics</td>
</tr>
<tr>
<td>RefPatIden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
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<td>Ident to confirm selection of correct approach procedure</td>
</tr>
<tr>
<td>RouteIndic</td>
<td>String</td>
<td>25 chars</td>
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<td></td>
<td>Differentiates between multiple final approach segments to the same runway or helipad (single alpha character)</td>
</tr>
<tr>
<td>Runwalden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
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<td>Associated runway/helipad identifier</td>
</tr>
<tr>
<td>ServiProvi</td>
<td>ServiceProvider</td>
<td>0-0</td>
<td>-</td>
<td></td>
<td>Associates approach procedure to a particular Satellite Based Approach System (SBAS) service provider</td>
</tr>
<tr>
<td>ThrCouWidt</td>
<td>Float32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Width of lateral course at Landing Threshold Point</td>
</tr>
<tr>
<td>ThrCroHeig</td>
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<td>6</td>
<td>Ft</td>
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<td>Height above landing threshold on a normal glidepath</td>
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<td>Data Type</td>
<td>Range</td>
<td>Unit</td>
<td>Key</td>
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<td>Types of aircrafts permitted to use the route</td>
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<td>AirwayLevel</td>
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<td>Airway level (high, low, or both)</td>
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<td>AIROAiGrou</td>
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<td></td>
<td>Types of aircrafts permitted to use the alternate route</td>
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<td>AltitDescr</td>
<td>AltitudeDescription</td>
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<td></td>
<td>Description of how segment altitude limits should be applied</td>
</tr>
<tr>
<td>DirecRestr</td>
<td>DirectionRestriction</td>
<td>0-3</td>
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<td></td>
<td>Direction restriction (forward, backward, either)</td>
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<td>EffecTime</td>
<td>String</td>
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<td>-</td>
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<td>Period during which preferred route is effective</td>
</tr>
<tr>
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<td>Period during which preferred route is effective</td>
</tr>
<tr>
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<td>Period during which preferred route is effective</td>
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<td>Country where the fix point is located</td>
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<td>ICAO code of fix point</td>
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<td>String</td>
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<td>Fix identifier (may be name if ident not available)</td>
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<td>FixPointType</td>
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<td>Fix storage number</td>
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<td>String</td>
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<td>Route identifier</td>
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<td>Identifier of departure airport or initial fix of the route</td>
</tr>
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<td>Name of the initial fix point</td>
</tr>
<tr>
<td>InFiReTyp</td>
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<td></td>
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<td>Maximum altitude limit for route</td>
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<td>MaSpLiFla</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
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<td>Speed limit represents maximum speed allowed (FALSE - min speed)</td>
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<tr>
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<td>Ft</td>
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<td>Minimum altitude limit for route</td>
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<td>Position (longitude, latitude, altitude) of fix point</td>
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<td>String</td>
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<td>-</td>
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<td>Reference route identifier (route to be flown)</td>
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<td>Boolean</td>
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<td></td>
<td>RNAV equipment required flag</td>
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<td>RouteUse</td>
<td>RoutingType</td>
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<td>Route use (point-to-point or area-to-area)</td>
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<td>RoutiTyp</td>
<td>RoutingType</td>
<td>0-7</td>
<td>-</td>
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<td>Type of reference route</td>
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<tr>
<td>SegAltLimi</td>
<td>Sint32</td>
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<td>Ft</td>
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<td>Segment altitude limit 1</td>
</tr>
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<td>SegAltLm1</td>
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<td>Ft</td>
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<td>Segment altitude limit 2</td>
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<td>-</td>
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<td>SpeedLimit</td>
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<td>Kts</td>
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<td>ICAO code of the terminal fix point</td>
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<td>-</td>
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<td>Identifier of arrival airport or terminal fix of the route</td>
</tr>
<tr>
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<td>String</td>
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<td>Storage number of the associated terminal fix point</td>
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<td>TimeCode</td>
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<td>Describes continuity of time of applicability</td>
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<td></td>
</tr>
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<td>Type</td>
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<td>Preferred route type</td>
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### 6.34 Preset Site

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<td>-</td>
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<td>Storage number.</td>
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<td>Absolute Height above surface level Flag. Always true.</td>
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<tr>
<td>AirTruBear</td>
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<td>0-360</td>
<td>Deg</td>
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<td>True bearing of aircraft at the preset site</td>
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<td>-</td>
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<td>SegmeNu mbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>The segment number of the preset site, if it belongs to a segment group</td>
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### 6.35 RestrictiveAirspace

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<th>Range</th>
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<td>-</td>
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<td>Storage number.</td>
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<td>Absolute Height above surface level Flag. Always true.</td>
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<td>Arc bearing</td>
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<td>ArcDistanc</td>
<td>Float32</td>
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<td>Nm</td>
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<td>Arc distance</td>
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<td>ArcDistan1</td>
<td>Float32</td>
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<td>Nm</td>
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<td>Arc distance (radius of arc from center point)</td>
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<td>Point3</td>
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<td>Arc origin position (longitude, latitude, altitude)</td>
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<td>ArcSegDeri</td>
<td>ArcSegmentDerivation</td>
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<td>True bearing from arc origin or navaid</td>
</tr>
<tr>
<td>Bearing2</td>
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<td>Deg</td>
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<td>True bearing from arc origin or navaid</td>
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<td>BoundEn</td>
<td>Logical</td>
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<td></td>
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<td>End of boundary description - return to origin point</td>
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<td>BoundaryShape</td>
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<td>Country where airspace is located</td>
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<td>AltitudeReference</td>
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<td>MultiCod</td>
<td>String</td>
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<td></td>
<td>Differentiate between airspaces with same designator</td>
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<td>Country in which navaid is located</td>
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### 6.36 Runway

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<th>Description</th>
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</tr>
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<td>String</td>
<td>Associated Airport ICAO code.</td>
</tr>
<tr>
<td>Airpolden</td>
<td>String</td>
<td>Associated Airport identifier.</td>
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<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>Associated Airport storage number.</td>
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<td>GeoCoordinate</td>
<td>Position (longitude, latitude, altitude) of the runway approach end.</td>
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<td>Bearing</td>
<td>Float32</td>
<td>Magnetic bearing.</td>
</tr>
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<td>CeLiLiFla</td>
<td>Logical, Boolean</td>
<td>Indicates presence of lights on center line.</td>
</tr>
<tr>
<td>ClosedFlag</td>
<td>Logical, Boolean</td>
<td>Indicates if the runway is closed or unusable.</td>
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<td>Distance between the beginning of the runway and the displaced threshold.</td>
</tr>
<tr>
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<td>Position (longitude, latitude, altitude) of the displaced threshold.</td>
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<td>Runway identifier.</td>
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### 6.38 Special Use Airspace

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<td>Times at which given airspace iWs to be in effect</td>
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<td>Hz</td>
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<td>Frequency for communicating with identified facility</td>
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### 6.39  Star

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<td>Sequence number</td>
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<td>Transition identifier</td>
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<td>Descent angle for the procedure</td>
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## 6.40 Supplemental Terminal Data

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<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
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<td>AgencRespo</td>
<td>String</td>
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<td>Military or federal agency primarily responsible for terminal procedure</td>
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<td>Airport/Heliport identifierW</td>
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</tr>
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<td>Uint64</td>
<td></td>
<td>-</td>
<td></td>
<td>Airport/Heliport storage number</td>
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<td>Alternate minimum not standard or not authorized</td>
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<td>2116</td>
<td>Country associated with supplemental terminal procedure data</td>
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<tr>
<td>EmeSafAlti</td>
<td>Uint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Safe altitude providing obstacle clearance [above MSL]</td>
</tr>
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<td>Host country agency with authority for the terminal procedure</td>
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<td>String</td>
<td>memo</td>
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<td></td>
<td>Essential information applying to the entire procedure</td>
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<td>RouQuaTyp</td>
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<td>Supplements route type - applies to GPS &amp; RNAV type procedures</td>
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<td>-</td>
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<td>Takeoff minimum not standard and/or departure procedure are published</td>
</tr>
<tr>
<td>TransAltit</td>
<td>Uint32</td>
<td></td>
<td>Ft</td>
<td></td>
<td>Altitude below which vertical position controlled by reference to altitudes [above MSL]</td>
</tr>
<tr>
<td>TransLeve</td>
<td>Uint32</td>
<td></td>
<td>Ft</td>
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<td>Lowest flight level above transition altitude [above MSL]</td>
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# 6.41 Terminal Procedure Climb

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<td>Ft</td>
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<td>Altitude to which climb rate applies [above MSL]</td>
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<td>Minimum rate, or ATC climb rate if higher than min. climb rate</td>
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<td>211</td>
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<td>DesceRat</td>
<td>Uint32</td>
<td>-</td>
<td>Ft/ m</td>
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<td>Minimum or ATC climb rate/descent [vertical velocity ft/min]</td>
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<td>IcaoCode</td>
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<td></td>
<td>Terminal procedure ICAO code</td>
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<td>Kts</td>
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<td>Position (longitude, latitude, altitude) of airport</td>
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### 6.42 Terminal Procedure Feeder Route

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### 6.43 Terminal Procedure Minima

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<td>Position (longitude, latitude, altitude) of airport</td>
</tr>
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<td>Ft</td>
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<td>Height above highest elevation in the touchdown zone - for a straight in or glideslope approach [above MSL]</td>
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<tr>
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<td>Ft</td>
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<td>-</td>
<td>m</td>
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<td>Determined by atmospheric conditions or instrumentally derived value for runway visual range</td>
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<tr>
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<td>m</td>
<td></td>
<td>Height equal to or greater than decision height or minimum descent altitude above airport or heliport elevation</td>
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<td>Ft</td>
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</tr>
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<td>m</td>
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<td>Ft</td>
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<td>Height above highest elevation in the touchdown zone - for a straight in or glideslope approach [above MSL]</td>
</tr>
<tr>
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<td>-</td>
<td>Ft</td>
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<td>Designated visibility for the approach</td>
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<td>m</td>
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<td>Height equal to or greater than decision height or minimum descent altitude above airport or heliport elevation</td>
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<td>Ft</td>
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<td>Height above highest elevation in the touchdown zone - for a straight in or glideslope approach [above MSL]</td>
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<td>Determined by atmospheric conditions or instrumentally derived value for runway visual range</td>
</tr>
<tr>
<td>CaDWeCeili</td>
<td>Float32</td>
<td>-</td>
<td>m</td>
<td></td>
<td>Height equal to or greater than decision height or minimum descent altitude above airport or heliport elevation</td>
</tr>
<tr>
<td>CaEDeHeigh</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Height above highest elevation in the touchdown zone - for a straight in or glideslope approach [above MSL]</td>
</tr>
<tr>
<td>CaEHeAbTou</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Height above highest elevation in the touchdown zone</td>
</tr>
<tr>
<td>CaEPrVisib</td>
<td>Float32</td>
<td>-</td>
<td>m</td>
<td></td>
<td>Designated visibility for the approach</td>
</tr>
<tr>
<td>CaERuVisib</td>
<td>Float32</td>
<td>-</td>
<td>m</td>
<td></td>
<td>Determined by atmospheric conditions or instrumentally derived value for runway visual range</td>
</tr>
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</table>
| CaEWeCeili      | Float32   | -     | m    |      | Height equal to or greater than decision height or minimum
<table>
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<th>Field</th>
<th>Type</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td></td>
<td>-</td>
<td>Desert altitude above airport or heliport elevation</td>
</tr>
<tr>
<td>IcaoCode</td>
<td>String</td>
<td>4 chars</td>
<td>Country associated with terminal procedure minima data</td>
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<tr>
<td>Ident</td>
<td>String</td>
<td>40 chars</td>
<td>Terminal procedure identifier</td>
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<td>RouteType</td>
<td>RouteType</td>
<td>0-4</td>
<td>Terminal procedure route type</td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
<td>memo</td>
<td>Remarks give conditions affecting published approach minimums</td>
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### 6.44 VfrRoute

<table>
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<tbody>
<tr>
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<td>-</td>
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<td>Storage number.</td>
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<tr>
<td>AHGT</td>
<td>Logical</td>
<td>1</td>
<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
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<td>AirIcaCod</td>
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<td>4 chars</td>
<td></td>
<td></td>
<td>ICAO code of the associated airport/heliport</td>
</tr>
<tr>
<td>Airpolden</td>
<td>String</td>
<td>6 chars</td>
<td></td>
<td>2111</td>
<td>Identifier of the associated airport/heliport</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td></td>
<td></td>
<td>Position (longitude, latitude, altitude) of airport</td>
</tr>
<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Storage number of the associated airport/heliport</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td></td>
<td>2116</td>
<td>Country where the airport/heliport is located</td>
</tr>
<tr>
<td>Remark</td>
<td>String</td>
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<td></td>
<td></td>
<td>Essential information pertaining to part or to all route procedures at the airport/heliport</td>
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<tr>
<td>RoutIdent</td>
<td>String</td>
<td>6 chars</td>
<td></td>
<td>2102</td>
<td>Route identifier</td>
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<td>RouteName</td>
<td>String</td>
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<td>Route name</td>
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### 6.45 VfrRouteSegment

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<td>2101</td>
<td>Storage number.</td>
</tr>
<tr>
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<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
</tr>
<tr>
<td>AirIcaCod</td>
<td>String</td>
<td>4 chars</td>
<td>-</td>
<td>2103</td>
<td>ICAO code of the associated airport/heliport</td>
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<tr>
<td>AirpoIden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>2111</td>
<td>Identifier of the associated airport/heliport</td>
</tr>
<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td></td>
<td>Storage number of the associated airport/heliport</td>
</tr>
<tr>
<td>Altitude</td>
<td>Uint32</td>
<td>-</td>
<td>Ft</td>
<td></td>
<td>Reference altitude [above sea level]</td>
</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
<td>0-336</td>
<td>-</td>
<td>2116</td>
<td>Country where the airport/heliport is located</td>
</tr>
<tr>
<td>Course</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td></td>
<td>Inbound course to the point/checkpoint</td>
</tr>
<tr>
<td>CoursRefer</td>
<td>MagneticTrueIndication</td>
<td>0-6</td>
<td>-</td>
<td></td>
<td>Course reference (magnetic/true)</td>
</tr>
<tr>
<td>Point2</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) 0.5nm, at 90 degree angle to heading, to left of checkpoint</td>
</tr>
<tr>
<td>MgrsPositi</td>
<td>String</td>
<td>20 chars</td>
<td>-</td>
<td></td>
<td>MGRS position given using the UTM or the UPS grid</td>
</tr>
<tr>
<td>PathType</td>
<td>PathType</td>
<td>0-6</td>
<td>-</td>
<td></td>
<td>Defines how the route is used (eg: arrival, departure, etc.)</td>
</tr>
<tr>
<td>PointName</td>
<td>String</td>
<td>25 chars</td>
<td>-</td>
<td></td>
<td>Official name of point/checkpoint</td>
</tr>
<tr>
<td>PointDescr</td>
<td>String</td>
<td>40 chars</td>
<td>-</td>
<td></td>
<td>Landmark, graphical description of point/checkpoint</td>
</tr>
<tr>
<td>PoiRepTyp</td>
<td>PointReportingType</td>
<td>0-2</td>
<td>-</td>
<td></td>
<td>Indicates if point is compulsory for graphic presentation of the route</td>
</tr>
<tr>
<td>Point1</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) of point/checkpoint</td>
</tr>
<tr>
<td>Point3</td>
<td>GeoCoordinate</td>
<td>x,y,z</td>
<td>-</td>
<td></td>
<td>Position (longitude, latitude, altitude) 0.5nm, at 90 degree angle to heading, to right of checkpoint</td>
</tr>
<tr>
<td>Routeldent</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>2102</td>
<td>Route identifier</td>
</tr>
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<td>RouteName</td>
<td>String</td>
<td>40 chars</td>
<td>-</td>
<td></td>
<td>Route name</td>
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<tr>
<td>SegAltDesc</td>
<td>SegmentAltitudeDescription</td>
<td>0-5</td>
<td>-</td>
<td></td>
<td>Defines how the given altitude applies to the segment</td>
</tr>
<tr>
<td>SegmeNam</td>
<td>String</td>
<td>25 chars</td>
<td>-</td>
<td></td>
<td>Official segment name</td>
</tr>
<tr>
<td>SegmeNumbe</td>
<td>Uint32</td>
<td>-</td>
<td>-</td>
<td>2115</td>
<td>Defines relative position of segment in total VFR route segment</td>
</tr>
<tr>
<td>SegTurDire</td>
<td>PathTurnDirection</td>
<td>0-2</td>
<td>-</td>
<td></td>
<td>Direction in which course turns are to be made</td>
</tr>
<tr>
<td>SegmeTyp</td>
<td>SegmentType</td>
<td>0-3</td>
<td>-</td>
<td></td>
<td>Indicates if segment is a starting, next, or ending segment</td>
</tr>
<tr>
<td>SOEAAFla</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td></td>
<td>Flag indicating whether or not the segment starts or ends at an airport/heliport</td>
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<td>VfRoStNumb</td>
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<td>-</td>
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<td>Storage number of the associated VFR route record</td>
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### 6.46 Waypoint

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<td>-</td>
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<td>Storage number.</td>
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<td>-</td>
<td></td>
<td>Absolute Height above surface level Flag. Always true.</td>
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<td>AirIcaCod</td>
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<td>ICAO code of the associated airport.</td>
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<tr>
<td>Airpolden</td>
<td>String</td>
<td>6 chars</td>
<td>-</td>
<td>Ident of the associated airport.</td>
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</tr>
<tr>
<td>AirStoNumb</td>
<td>Uint64</td>
<td>-</td>
<td>-</td>
<td>Storage number of the associated airport.</td>
<td></td>
</tr>
<tr>
<td>Bearing</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td>Bearing from navaid to waypoint</td>
<td></td>
</tr>
<tr>
<td>BeariRefer</td>
<td>MagneticTrueIndication</td>
<td>0-6</td>
<td>-</td>
<td>Bearing reference (magnetic, true, or 'grid')</td>
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<tr>
<td>ColloNavai</td>
<td>Logical</td>
<td>Boolean</td>
<td>-</td>
<td>Waypoint collocated with a navaid flag</td>
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</tr>
<tr>
<td>Country</td>
<td>CountryEntry</td>
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<td>-</td>
<td>2116 Country where the waypoint is located</td>
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<tr>
<td>Distance</td>
<td>Float32</td>
<td>-</td>
<td>Nm</td>
<td>Distance from navaid to waypoint</td>
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</tr>
<tr>
<td>DynMagVari</td>
<td>Float32</td>
<td>+/-180</td>
<td>Deg</td>
<td>Dynamic magnetic variation</td>
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<td>FixType</td>
<td>FixType</td>
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<td>Fix Type</td>
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<td>Country where navaid is located</td>
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<td>Navaididen</td>
<td>String</td>
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<td>-</td>
<td>Navaid identifier</td>
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<td>NavKeyCod</td>
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<td>-</td>
<td>-</td>
<td>Distinguish between same type navaid with same ident and country</td>
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<td>NavaidType</td>
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<td>Navaid type</td>
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<td>x,y,z</td>
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<td>Waypoint Position (longitude, latitude, altitude)</td>
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<td>RnavWaypoi</td>
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<td>Boolean</td>
<td>-</td>
<td>Waypoint is a RNAV waypoint</td>
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<td>-</td>
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<td>RvsmIndica</td>
<td>RvsmIndicator</td>
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<td>Waypoint RVSM indicator</td>
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<td>State or province where waypoint is located</td>
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<td>Type</td>
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<td>WayRecTyp</td>
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</table>
7. **Navaids Attribution Enumeration Values**

This section describes the attributes specific to each NAV category whose values are enumerated in accordance to this appendix.

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<tr>
<th>Enumeration Name</th>
<th>Enumerator Description</th>
<th>Values</th>
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<td>All aircrafts</td>
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<tr>
<td></td>
<td>Jets only</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Turbo props only</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Not Defined</td>
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<td>AircraftGroup</td>
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<td>All Aircraft</td>
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</tr>
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<td></td>
<td>All Aircraft, Cruise speed 250 kts or less</td>
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</tr>
<tr>
<td></td>
<td>Non-Jet and Turbo Prop</td>
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</tr>
<tr>
<td></td>
<td>Multi-Engine Props Only</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Jets &amp; Turbo Props/Spec., Cruise Spd 190kts or greater</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Helicopter Only</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Jet Power</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Turbo-Prop/Special, Cruise Speed 190 kts or greater</td>
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</tr>
<tr>
<td></td>
<td>Non-Jet, Non-Turbo Prop</td>
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</tr>
<tr>
<td></td>
<td>Non-Jet, Cruise Speed 190 kts or greater</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Non-Jet, Cruise Speed 189 kts or less</td>
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<tr>
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<tr>
<td></td>
<td>Non Turbo Jets</td>
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</tr>
<tr>
<td></td>
<td>Non Jets</td>
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<td>Turbo Jets</td>
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<td>Water Turbo Jets</td>
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<td>----</td>
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<tr>
<td>Water Turbo Props</td>
<td>20</td>
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**AirspaceBoundaryType**

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<thead>
<tr>
<th>Advisory Area (ADA or UDA)</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Defense Identification Zone (ADIZ)</td>
<td>1</td>
</tr>
<tr>
<td>Air Route Traffic Control Center (ARTCC)</td>
<td>2</td>
</tr>
<tr>
<td>Area Control Center (ACC)</td>
<td>3</td>
</tr>
<tr>
<td>Buffer Zone (BZ)</td>
<td>4</td>
</tr>
<tr>
<td>Control Area or Special Rules Area</td>
<td>5</td>
</tr>
<tr>
<td>Ctrl/Special Rules/Military Traffic Zone</td>
<td>6</td>
</tr>
<tr>
<td>Flight Information Region (FIR)</td>
<td>7</td>
</tr>
<tr>
<td>Ocean Control Area (OCA)</td>
<td>8</td>
</tr>
<tr>
<td>Radar Area</td>
<td>9</td>
</tr>
<tr>
<td>Terminal Control Area (TCA or MTCA)</td>
<td>10</td>
</tr>
<tr>
<td>Upper Flight Information Region (UIR)</td>
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</tr>
<tr>
<td>Mode C Defined Areas</td>
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</tr>
<tr>
<td>Other</td>
<td>13</td>
</tr>
<tr>
<td>Not Defined</td>
<td>14</td>
</tr>
</tbody>
</table>

**AirspaceRestrictionType**

| Alert                  | 0  |
| Caution                | 1  |
| Danger                 | 2  |
| Military Operations Area | 3 |
| Prohibited             | 4  |
| Restricted             | 5  |
| Temporary Reserved Airspace | 6 |
| Training               | 7  |
| Warning                | 8  |
| Not Defined            | 9  |

**AirspaceType**

<p>| Class C Airspace (was ARSA within the USA) | 0  |
| Control Area - ICAO Designation (CTA)     | 1  |
| Terminal Control Area - ICAO Desig (TMA or TCA) | 2  |
| Radar Zone or Radar Area (was TRSA in the USA) | 3 |
| Class B Airspace (was TCA within the USA) | 4  |
| Class D Airspace in USA/Control Zone for ICAO (CTR) | 5  |
| Advisory Area (ADA or UDA)                | 6  |
| Air Defense Identification Zone (ADIZ)     | 7  |
| Air Route Traffic Control Center (ARTCC)   | 8  |
| Area Control Center (ACC)                 | 9  |
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**AirwayLevel**

- All Altitudes                           0
- High Level Airway                       1
- Low Level Airway                        2
- Not Defined                             3

**AlternateMinimumType**

- Alternate Minimum Not Standard          0
- Alternate Minimum Not Authorized        1
- Not Defined                             2

**AltitudeDescription**

- At or above Alt1                        0
- At or below Alt1                        1
- At Alt1                                 2
- Between two altitudes                   3
- At or above Alt2                        4
- At Alt1 & Glideslope altitude Alt2      5
- At or above Alt1 & Glideslope Alt Alt2  6
- At Alt1 & Glideslope Intercept Alt2     7
- At or above Alt1 & GS Intercept Alt2    8
- At or above Alt1 & Vertical Angle Alt2  9
- As assigned                             10
- Recommended altitude                    11
- Glideslope intercept altitude in Alt2   12
- Not Defined                             13

**AltitudeReference**

- Above Mean Sea Level                    0
- Above Ground Level                      1
- By Notam                                2
- Altitude not limited                    3
- Not Defined                             4

**AltitudeType**

- Feet above sea level                    0
- Radar altimeter                         1
- Missed approach point                   2
- Transition level                        3
- Not Defined                             4
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**Modulation**

| Amplitude Modulated Frequency | 0 |
| Frequency Modulated Frequency | 1 |
| Not Defined | 2 |

**MonitoredFrequency**

| VHF Emergency Frequency 121.5 | 0 |
| UHF Emergency Frequency 243.0 | 1 |
| VHF/UHF Emergency Frequencies | 2 |
| VHF 121.5 and VHF/UHF Emergency Freq | 3 |
| UHF 243.0 and VHF/UHF Emergency Freq | 4 |
| VHF 121.5 and UHF 243.0 Emergency Freq | 5 |
| Not Defined | 6 |

**NameFormatType**

| Abeam Fix | 0 |
| Bearing and Distance Fix | 1 |
| Airport Name as Fix | 2 |
| FIR Fix | 3 |
| Phonetic Letter Name Fix | 4 |
| Airport Ident as Fix | 5 |
| Latitude/Longitude Fix | 6 |
| Multiple Word Name Fix | 7 |
| Navaid Ident as Fix | 8 |
| Published Five-Letter Name Fix | 9 |
| Published Less Than 5-Letter Fix | 10 |
| Published More Than 5-Letter Fix | 11 |
| Airport/Runway Related Fix | 12 |
| UIR Fix | 13 |
| Official 5-letter Localizer Name | 14 |
| Unofficial 5-letter Localizer | 15 |
| Not Defined | 16 |

**NavaidCollocation**

<p>| Collocated Navaid | 0 |
| Non Collocated Navaid | 1 |
| DME Collocated With ILS Localizer | 2 |
| DME Collocated With ILS Glide Slope | 3 |
| DME Non Collocated With ILS | 4 |
| DME Collocated With MLS Azimuth | 5 |
| DME Collocated With MLS Elevation | 6 |
| DME Non Collocated With MLS | 7 |</p>
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<td>Hold</td>
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<td>Takeoff</td>
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<td>Ramp</td>
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<td>Interference-Free 40NM up to 18000 feet</td>
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<td>Interference-Free Service Varies</td>
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<td>Compass Locator, 25 Watts or less, 15NM</td>
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<td>Low Altitude - Within 40 nm</td>
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<td>High Altitude - Within 130 nm</td>
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<td>Extended High Altitude - Beyond 130 nm</td>
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<td>High Level</td>
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<tr>
<td>At or below Altitude 1</td>
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<tr>
<td>------------------------</td>
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<tr>
<td>Between Altitude 1 and 2</td>
<td>2</td>
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<tr>
<td>At Altitude 1</td>
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<tr>
<td>Not defined</td>
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**RefuelingDirection**

| North | 0 |
| South | 1 |
| East | 2 |
| West | 3 |
| Northeast | 4 |
| Northwest | 5 |
| Southeast | 6 |
| Southwest | 7 |
| Not defined | 8 |

**RefuelingOperationType**

| Anchor | 0 |
| Track | 1 |
| Anchor or Track | 2 |
| Not defined | 3 |

**RefuelingPointType**

| Air refueling initial point | 0 |
| Air refueling control point | 1 |
| Navigation check point | 2 |
| Exit point | 3 |
| Entry point (anchors only) | 4 |
| Anchor point (anchors only) | 5 |
| Anchor pattern (anchors only) | 6 |
| Not defined | 7 |

**RestrictionType**

| Altitude Exclusion | 0 |
| Cruising Table Replacement | 1 |
| Seasonal Restriction | 2 |
| Note Restriction | 3 |
| Not Defined | 4 |

**ReturnCode**

<p>| Ok | 0 |
| Fail | 1 |
| Not Found | 2 |
| Request Pending | 3 |
| Request In Progress | 4 |
| Request Completed | 5 |
| Unappropriate Container Type Ident | 6 |
| Container Ownership Unappropriate | 7 |
| Status unavailable                                             | 8 |
| User cancelled operation                                      | 9 |
| File name not specified                                       | 10 |
| Database Name not found                                        | 11 |
| Client already registered                                      | 12 |
| Client is not registered                                       | 13 |
| Client is unauthorized                                         | 14 |
| Request is not registered                                      | 15 |
| Request is unauthorized                                        | 16 |
| Duplicate Item                                                 | 17 |
| No Associated Runway                                           | 18 |
| Kill command doesn't match Navaid component                   | 19 |
| Unique Id doesn't match NavObject component                   | 20 |
| NavObject already exists in the database                      | 21 |
| Local area has not been defined                                | 22 |
| Service unavailable in current LOF DLL                        | 23 |
| Gaussian's Coefficient are unavailable                        | 24 |
| Gaussian's Coefficients model are out of date                 | 25 |
| Theoretical Result. Computed with a magnetic model (WMM or IGRS)| 26 |
| Accessing wrong magnetic model                                | 27 |
| DataType mismatch                                              | 28 |
| Another client is already registered as editor                 | 29 |
| Edition mode is not active                                    | 30 |
| Edition mode activated                                         | 31 |
| Edition mode deactivated                                       | 32 |
| The supported Interface is not implemented                    | 33 |
| The requested service is not supported on server               | 34 |
| Null                                                           | 250 |
| No key is defined                                              | 251 |
| Null Object                                                    | 252 |
| Insertion Fail                                                 | 253 |
| Removal Fail                                                   | 254 |
| File Opened                                                    | 255 |
| File Closed                                                    | 256 |
| File Not Found                                                 | 257 |
| Parsing In Progress                                            | 258 |
| Database Empty                                                 | 259 |
| Container Owner Unappropriate                                  | 260 |
| No Object Found                                                | 261 |
| Key wrongly assigned                                           | 262 |
| Restriction Not Satisfied                                      | 263 |
| Copy Failed                                                    | 264 |</p>
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<tr>
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<td>GPS required</td>
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<td>Procedure with Straight-In Minimums</td>
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<td>Composite - 50 percent or more of runway is permanent</td>
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<tr>
<td>Part concrete, asphalt, or bitumen-bound macadam</td>
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<td>Macadam - crushed rock water bound</td>
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<td>Membrane - plastic or other fiber material</td>
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<td>Mix in place using non-bituminous binders (eg: portland)</td>
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<td>Partially Operational</td>
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<td>Community Aerodrome Radio Station</td>
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<tr>
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<td>ServiceProvider</td>
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<td>Initial Contact</td>
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