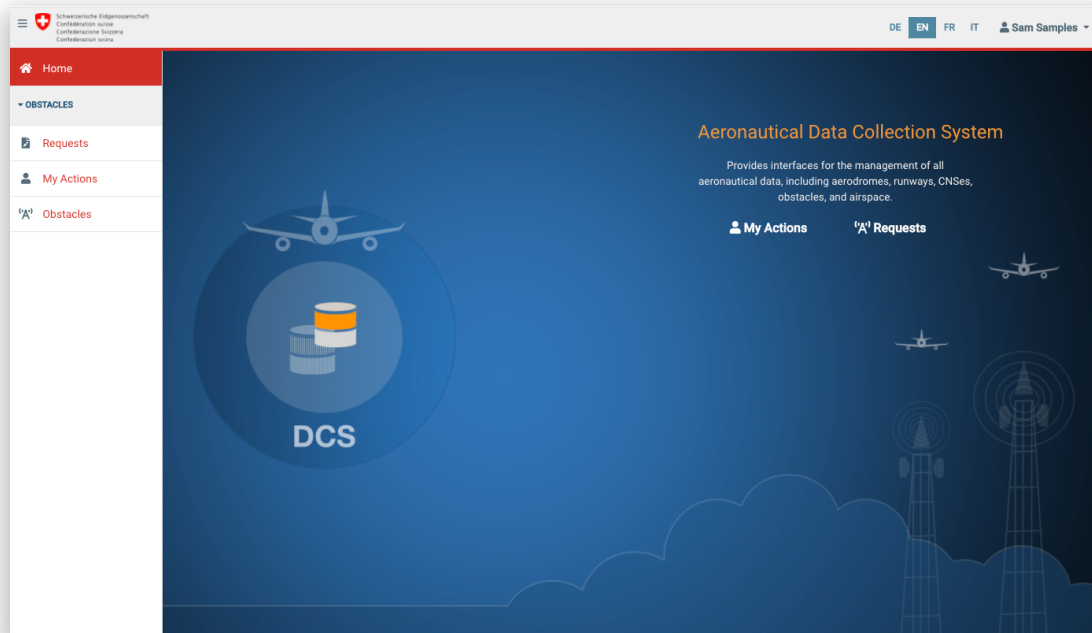


Aeronautical Data Collection Service Specification



KML File Structure and Format

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Section		Example
Document	Document structure and header information	<pre> <?xml version="1.0" encoding="UTF-8" ?> <!--Created by Data Collection System--> <!--Filename: DCS_Obstacles_2022-01-26-010243--> <!--Date: Wed Jan 26 01:02:43 CET 2022--> <kml xmlns="http://www.opengis.net/kml/2.2" xmlns:gx="http://www.google.com/kml/ext/2.2" xmlns:kml="http://www.opengis.net/kml/2.2" xmlns:atom="http://www.opengis.net/kml/2.2"> <Document> <name>DCS_Obstacles_2022-02-22-010243</name> <description>Modifications flagged since AIRAC 2021-11-30</description> <!-- insert style and schema here --> <!-- insert placemarks here --> </Document> </kml> </pre>

<p>Style</p>	<p>Style map and a normal and highlighted style for each style used in Google Earth.</p> <p>This is static information</p> <p>The example shows map styles for:</p> <ul style="list-style-type: none"> • ms_pole (POLE, not lighted) • ms_pole_lighted (POLE, lighted) • ms_line (TRANSMISSION_LINE, not marked) • ms_polygon (polygon obstacle, not marked) 	<pre> <!-- Point Style --> <StyleMap id="ms_pole"> <Pair> <key>normal</key> <styleUrl>#sn_pole</styleUrl> </Pair> <Pair> <key>highlight</key> <styleUrl>#sh_pole</styleUrl> </Pair> </StyleMap> <Style id="sn_pole"> <IconStyle> <color>ff0000ff</color> <scale>0.5</scale> </IconStyle> <href>signature/pole.png</href> </Icon> <LabelStyle> <color>ff0000ff</color> </LabelStyle> <LineStyle> <color>ff0000ff</color> <width>5</width> </LineStyle> </Style> <Style id="sh_pole"> <IconStyle> <color>ff0000ff</color> <scale>1.0</scale> </IconStyle> <href>signature/pole.png</href> </Icon> <LabelStyle> <color>ff0000ff</color> </LabelStyle> <LineStyle> <color>ff0000ff</color> <width>5</width> </LineStyle> </Style> <StyleMap id="ms_pole_lighted"> <Pair> <key>normal</key> <styleUrl>#sn_pole_lighted</styleUrl> </Pair> <Pair> <key>highlight</key> <styleUrl>#sh_pole_lighted</styleUrl> </Pair> </StyleMap> <Style id="sn_pole_lighted"> <IconStyle> <color>ff0000ff</color> <scale>0.5</scale> </IconStyle> <href>signature/pole_lighted.png</href> </Icon> <LabelStyle> <color>ff0000ff</color> </LabelStyle> <LineStyle> <color>ff0000ff</color> <width>5</width> </LineStyle> </Style> </pre>
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Section		Example
		<pre> </Icon> </IconStyle> <LabelStyle> <color>ff0000ff</color> </LabelStyle> <LineStyle> <color>ff0000ff</color> <width>5</width> </LineStyle> </Style> <Style id="sh_pole_lighted"> <IconStyle> <color>ff0000ff</color> <scale>1.0</scale> <Icon> <href>signature/pole_lighted.png</href> </Icon> </IconStyle> <LabelStyle> <color>ff0000ff</color> </LabelStyle> <LineStyle> <color>ff0000ff</color> <width>5</width> </LineStyle> </Style> <Style id="ms_line"> <IconStyle> <Icon> </Icon> </IconStyle> <LabelStyle> <color>ffff5500</color> </LabelStyle> <LineStyle> <color>ffff5500</color> <width>3.5</width> </LineStyle> <PolyStyle> <color>7f705c5c</color> </PolyStyle> </Style> <Style id="ms_polygon"> <IconStyle> <Icon> </Icon> </IconStyle> <LabelStyle> <color>ff0000cc</color> </LabelStyle> <LineStyle> <color>ff0000cc</color> <width>1.5</width> </LineStyle> <PolyStyle> <color>7f0000cc</color> </PolyStyle> </Style> </pre>

Schema	<p>Schema of the extended data:</p> <ul style="list-style-type: none"> • UUID • Airport (comma separated list of Location Indicators of airport if inside obstacle limitation perimeter) • Obstacle Type (AIXM Type) • State (A= active, I= inactive) • maxHeight AGL • Max Elevation ASL • Radius • Effektive date • Marking (NONE / RED_WHITE_RED / ORANGE_SPHERES / ORANGE_CANVAS / CABLE_WARNER) • Lighting (NONE / LOW / MEDIUM / HIGH) • Group (YES / NO) • Small (YES / NO) 	<pre> <Schema name="dcsData" id="dcsDataId"> <SimpleField type="string" name="uuid"> <displayName><![CDATA[uuid]]></displayN ame> </SimpleField> <SimpleField type="string" name="airport"> <displayName><![CDATA[airport]]></displ ayName> </SimpleField> <SimpleField type="string" name="obstacleType"> <displayName><![CDATA[obstacleType]]></ displayName> </SimpleField> <SimpleField type="string" name="state"> <displayName><![CDATA[state]]></display Name> </SimpleField> <SimpleField type="float" name="maxHeightAGL"> <displayName><![CDATA[maxHeightAGL]]></ displayName> </SimpleField> <SimpleField type="float" name="topElevationAMSL"> <displayName><![CDATA[topElevationAMSL]]></displayName> </SimpleField> <SimpleField type="float" name="radius"> <displayName><![CDATA[radius]]></displa yName> </SimpleField> <SimpleField type="string" name="effectiveDate"> <displayName><![CDATA[effectiveDate]]>< /displayName> </SimpleField> <SimpleField type="string" name="marking"> <displayName><![CDATA[marking]]></displ ayName> </SimpleField> <SimpleField type="string" name="lighting"> <displayName><![CDATA[lighting]]></disp layName> </SimpleField> <SimpleField type="string" name="group"> </pre>
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Section		Example
		<pre> <displayName><![CDATA[group]]></display Name> </SimpleField> <SimpleField type="string" name="small"> <displayName><![CDATA[small]]></display Name> </SimpleField></Schema> </pre>
Obstacles	Placemark for each obstacle	

Section		Example
	Point Obstacle	<pre> <Placemark> <name>SH21001234</name> <visibility>1</visibility> <styleUrl>#ms_crane_lighted</styleUrl> <ExtendedData> <SchemaData schemaUrl="#dcsDataId"> <SimpleData name="uuid">7e1ae8fb-ebd4-4728-83f8- 319c58edb170</SimpleData> <SimpleData name="airport">LSZH</SimpleData> <SimpleData name="obstacleType">CRANE</SimpleData> <SimpleData name="state">A</SimpleData> <SimpleData name="maxHeightAGL">99.0</SimpleData> <SimpleData name="topElevationAMSL">534.2</SimpleData> <SimpleData name="radius">35.4</SimpleData> <SimpleData name="effectiveDate">2022-02- 09</SimpleData> <SimpleData name="marking">ORANGE_CANVAS</SimpleData> <SimpleData name="lighting">LOW</SimpleData> <SimpleData name="group">NO</SimpleData> <SimpleData name="small">NO</SimpleData> </SchemaData> </ExtendedData> <Point> <extrude>1</extrude> <altitudeMode>absolute</altitudeMode> <coordinates> 8.612961873682625,47.682293804034046,53 4.2 </coordinates> </Point> </Placemark> </pre>

	<p>Line Obstacle</p> <p>Multi part geometry with first point of the line as a <Point> and all points as <LineString></p>	<pre> <Placemark> <name>HL21000123</name> <visibility>1</visibility> <styleUrl>#ms_line</styleUrl> <ExtendedData> <SchemaData schemaUrl="#dcsDataId"> <SimpleData name="uuid">c58f13d2-021b-45ae-9e51- 34e6a21472d0</SimpleData> <SimpleData name="obstacleType">TRANSMISSION_LINE</ SimpleData> <SimpleData name="state">A</SimpleData> <SimpleData name="maxHeightAGL">60.0</SimpleData> <SimpleData name="topElevationAMSL">582.5</SimpleData> <SimpleData name="effectiveDate">2020-01- 23</SimpleData> <SimpleData name="marking">NONE</SimpleData> <SimpleData name="lighting">NONE</SimpleData> <SimpleData name="group">NO</SimpleData> <SimpleData name="small">NO</SimpleData> </SchemaData> </ExtendedData> <MultiGeometry> <Point> <extrude>1</extrude> <altitudeMode>absolute</altitudeMode> <coordinates> 8.9867038888888888,47.64232916666667,582 .501 </coordinates> </Point> <LineString> <extrude>1</extrude> <altitudeMode>absolute</altitudeMode> <coordinates> 8.9867038888888888,47.64232916666667,582 .501 8.9878069444444444,47.6459125,573.599 8.9862683333333333,47.650205833333333,556 .499 8.9860733333333334,47.654930833333333,507 .3 8.9884480555555557,47.656473333333333,490 .602 </pre>
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Section		Example
		<pre> 8.99014454134434,47.65757500013223,493. 499 </coordinates> </LineString> </MultiGeometry> </Placemark> </pre>

Polygon obstacle
Multi part geometry with first point of the polygon as a <Point> and all points as <LinearRing>

```
<Placemark>
  <name>216ZH40090</name>
  <visibility>1</visibility>
  <styleUrl>#ms_polygon</styleUrl>
  <ExtendedData>
    <SchemaData
      schemaUrl="#dcsDataId">
        <SimpleData
          name="uuid">640844cb-9736-4f23-9acf-
          31eb094fd625</SimpleData>
        <SimpleData
          name="obstacleType">CATENARY</SimpleData>
        <SimpleData
          name="state">A</SimpleData>
        <SimpleData
          name="maxHeightAGL">62.0</SimpleData>
        <SimpleData
          name="topElevationAMSL">772</SimpleData>
        <SimpleData
          name="effectiveDate">2021-10-
          11</SimpleData>
        <SimpleData
          name="marking">CABLE_WARNER</SimpleData>
        <SimpleData
          name="lighting">NONE</SimpleData>
        <SimpleData
          name="group">NO</SimpleData>
        <SimpleData
          name="small">NO</SimpleData>
      </SchemaData>
    </ExtendedData>
    <MultiGeometry>
      <Polygon>
        <extrude>1</extrude>
        <tessellate>1</tessellate>

        <altitudeMode>absolute</altitudeMode>
        <outerBoundaryIs>
          <LinearRing>
            <coordinates>

8.885462359096055,47.43891211148467,636
.0

8.881928388968733,47.44158298980589,750
.0

8.883152973387514,47.441756605440574,77
2.0

8.886363026465656,47.44034013346709,700
.0

8.885462359096055,47.43891211148467,636
.0

            </coordinates>
          </LinearRing>
        </outerBoundaryIs>
      </Polygon>
      <Point>
        <extrude>1</extrude>
```

Section		Example
		<pre data-bbox="798 277 1425 613"><altitudeMode>absolute</altitudeMode> <coordinates> 8.885462359096055,47.43891211148467,636 .0 </coordinates> </Point> </MultiGeometry> </Placemark></pre>