



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

# Aviation Environmental Design Tool (AEDT)

Version 3b

AEDT Standard Input File (ASIF)  
Reference Guide

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## 1 Introduction

The AEDT Standard Input File (ASIF) provides a standard file format to allow for the import of data into AEDT. The ASIF format allows users to create a new study by importing a complete study including airports, scenarios, cases, operations, tracks, and other study definitions. Users can also use the partial ASIF import to import data into an existing AEDT study.

This guide provides a description of the ASIF format for the ASIF schema version 1.2.15. It also provides an overview of ASIF usage and annotated sample studies. The guide is intended for analysts and programmers who wish to create ASIF.

It is recommended to use the ASIF schema documentation, **AsifMerge.html**, in conjunction with the guide. It provides diagrams that illustrate the structure and contents of each XML element as well as rules and properties of each element, see Section 1.2.

### 1.1 Overview of the ASIF Format

ASIF is based on the XML file format. XML is a text-based file format that is readable by both humans and computers. Data values are tagged with elements and organized in a hierarchical manner such that the elements can contain other elements or data. XML elements can also have attributes which provide metadata that affect how the ASIF importer processes the data in the XML file. This document assumes users have basic familiarity with the XML file format. For additional information about XML, see <http://xmlfiles.com/xml/>.

An ASIF can be created and edited in a standard XML editor. The *XML Notepad* and *Notepad++* are XML editors that can be downloaded for free online.

### 1.2 ASIF Schema Documentation




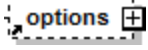
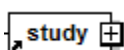
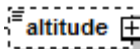
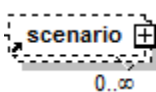
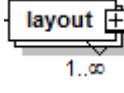
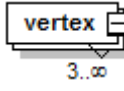
The ASIF schema (.xsd) files are located under *C:\Program Files\FAA\AEDT\Examples* directory.

- ASIF.xsd
- ASIF\_Airport.xsd
- ASIF\_Common.xsd
- ASIF\_Fleet.xsd
- ASIF\_Receptors.xsd

The ASIF schema documentation, **AsifMerge.html**, is located under the *C:\Program Files\FAA\AEDT\Examples\ASIF Schema Reference* directory. This is a HTML file which contains schema diagrams that illustrate the structure and contents of each XML element. The links in the HTML file facilitates understanding the schema hierarchy and the rules and properties of each element.

The following table describes the notations used in the ASIF schema diagram.

Notation for Schema Diagram

Notation	Icon	Description
Choice indicator		Only one of the elements contained in the selected group can be present
Sequence indicator		Child elements must appear in the specified sequence
Element	 	Represented by a rectangle with solid or dotted border  Solid rectangle – required element  Dotted rectangle – optional element
Element with (+) sign	 	Indicates that the element has child element(s) and/or attribute(s)
Element with min and max bound	  	Specifies the min/max number of times an element can occur in the parent element

### 1.3 Importing External Studies

AEDT also supports import of INM and EDMS studies by converting these legacy tools into ASIF format and importing into AEDT. See the AEDT User Guide and the AEDT Supplemental Guide for more information on importing legacy studies.

## 2 ASIF Import Types

There are two types of ASIF import files: a full-study import and a partial-study import. The following sections describe each type of import file.

### 2.1 Full Study Import

AEDT supports the creation of new studies via ASIF. For a full-study import, the *content* attribute of the *AsifXML* element must be set to “study”.

Please see Section 3 for two sample studies.

### 2.2 Partial ASIF Import

Partial ASIF is used to import specific pieces of data into an existing AEDT study. A partial ASIF is organized similarly to a full ASIF, except that it contains a single type of data – the *content* attribute of the *AsifXML* element must specify the data type. The data types that can be imported via partial ASIF are listed below:

- airportLayoutSet
- annualization
- case
- fleet
- receptorSets
- scenario
- boundary
- trackOpSet
- runup
- userGroundSupportEquipmentSet
- stationarySourceSet
- operationalProfileSet

The format for a partial ASIF is outlined below. The header is the same as a full ASIF, except that the *content* attribute is not “study”. Instead, the *content* attribute should specify the data element that appears in the file.

```
<AsifXml xmlns:AsifXml="http://www.faa.gov/ASIF"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.2.15"
content="ENTER_CONTENT_TYPE_HERE">
```

```
<!-- The content block follows here: -->
```

```
    <*content type here*>
```

```
    ...
```

```
    </*end content type*>
```

```
</AsifXml>
```

Note that some of these elements rely on information provided in other data blocks. If this information is not provided by the base study when loading the partial ASIF, an error will be generated. For example, attempting to load a partial ASIF containing scenario data that references an airport that does not exist in the base study will cause an error.

## **2.3 Sample ASIFs**

Sample ASIFs, including full study files and partial ASIFs, are located in *C:\Program Files\FAA\AEDT\Examples* directory.

### *Full study ASIF*

- asif\_emissions\_study.xml
- asif\_sensor\_path\_study.xml
- asif\_small.xml

### *Partial ASIF*

- PartialASIF\_airportLayoutSet.xml
- PartialASIF\_annualization.xml
- PartialASIF\_boundary.xml
- PartialASIF\_operationalProfileSet.xml
- PartialASIF\_receptorSets.xml
- PartialASIF\_runup.xml
- PartialASIF\_scenario.xml
- PartialASIF\_stationarySourceSet.xml
- PartialASIF\_userGroundSupportEquipmentSet.xml

## 3 ASIF Examples

This section provides simple steps to assist in the creation of ASIFs for possible studies. See Section 3.1 on developing an ASIF for a simple study and Section 3.2 for an emissions dispersion study.

### 3.1 Create a Simple Study

Follow the steps below to create an ASIF for a simple study:

1. Create an empty study file.
2. Populate the airport layout section.
3. Define receptor set.
4. Define scenario and case hierarchy.
5. Populate the case with tracks and air operations.
6. Create annualization.

The following sections provide examples of each of the above steps. This example should be used as an aid for understanding the ASIF format, and not as a data reference.

#### Step 1: Create empty study file

At a minimum, an ASIF consists of the standard XML declaration, a study section, and study metadata.



Study name must be at least five characters long and must not contain periods (.) or spaces.

```
<AsifXml version="1.2.15" content="study"
xmlns:AsifXml="http://www.faa.gov/ASIF"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <study xmlns:asif="http://www.faa.gov/ASIF">
    <!-- User-defined study name -->
    <name>ASIF_example</name>

    <!-- Study type - Emissions, Dispersion, Noise and Emissions, or Noise and
Dispersion -->
    <studyType>Noise and Emissions</studyType>

    <!-- Indicate the units used in the study -->
    <emissionsUnits>Kilograms</emissionsUnits>

    <!-- User-defined study description -->
    <description>A sample study</description>

    <!-- Add airport layouts here -->

    <!-- Add receptors here -->

    <!-- Add scenarios here -->

  </study>
</AsifXml>
```



## Step 2: Populate airport layouts section

AEDT requires all airports in the study area to be declared. The airport runway definitions are specified using the *runwaySet* element. If runways are not specified in ASIF, then the runway data from the Airport database will be used during the ASIF import.

In the example below, KMDW airport is defined using user-specified runways.

```
<airportLayoutSet>
  <airportLayout>
    <!-- User can specify an airport with user-defined runway -->
    <airportCode type="ICAO">KMDW</airportCode>

    <!-- Airports can have one or more runways defined -->
    <runwaySet>
      <runway>
        <!-- Runway length (in feet) -->
        <length>5932</length>

        <!-- Runway width (in feet) -->
        <width>150</width>

        <!-- One or more runway ends -->
        <runwayEnd>
          <!-- user-defined name for runway end -->
          <name>04R</name>

          <!-- latitude and longitude of runway end -->
          <latitude>41.779496</latitude>
          <longitude>-87.75876</longitude>

          <!-- elevation in feet -->
          <elevation>0.0</elevation>

          <!-- threshold crossing height (in feet) -->
          <threshCrossHeight>50.0</threshCrossHeight>

          <!-- glide slope for an approach to this runway end -->
          <glideSlope>3.0</glideSlope>

          <!-- displaced threshold for departure-->
          <depDispThresh>0.0</depDispThresh>

          <!-- displaced threshold for approach -->
          <appDispThresh>0.0</appDispThresh>

          <!-- Percent change in airport average headwind -->
          <percentWind>0.0</percentWind>
        </runwayEnd>
      </runwayEnd>
      <runwayEnd>
        <name>22L</name>
        <latitude>41.791167</latitude>
        <longitude>-87.743554</longitude>
        <elevation>0.0</elevation>
        <threshCrossHeight>50.0</threshCrossHeight>
        <glideSlope>3.0</glideSlope>
      </runwayEnd>
    </runwaySet>
  </airportLayout>
</airportLayoutSet>
```

```
<depDispThresh>0.0</depDispThresh>
<appDispThresh>0.0</appDispThresh>
<percentWind>0.0</percentWind>
</runwayEnd>
</runway>
</runwaySet>
</airportLayout>
</airportLayoutSet>
```

### Step 3: Create receptor set

If the study includes noise or dispersion analysis, then one or more receptor sets are required. Receptor sets define locations (grid or point) where noise/dispersion measurements are taken. The example below defines a grid type receptor set.

```
<receptorSet>
  <!-- user-defined name -->
  <name>gridfile_100x100</name>
  <grid>
    <!-- Latitude and longitude of southwest corner of grid -->
    <latitude>41.97872</latitude>
    <longitude>-87.90439</longitude>

    <!-- Width and height of grid (in nautical miles) -->
    <width>100.0</width>
    <height>100.0</height>

    <!-- Number of points across height and width of grid -->
    <numWidth>100</numWidth>
    <numHeight>100</numHeight>
  </grid>
</receptorSet>
```

### Step 4: Create scenario and case hierarchy

Scenarios contain a set of cases (i.e. operation group) that are used to group aircraft tracks and operations.

The following example demonstrates a simple scenario and case structure. A case can contain one or more child cases.

```
<scenario>
  <!-- user-defined scenario name and description -->
  <name>Baseline_Scenario</name>

  <!-- user-defined start time for scenario -->
  <startTime>2009-11-10T15:02:00</startTime>

  <!-- Duration of scenario (in hours) -->
  <duration>24</duration>

  <!-- Taxi model for scenario -->
  <taxiModel>UserSpecified</taxiModel>

  <!-- Aircraft performance model -->
  <acftPerfModel>SAE1845</acftPerfModel>
```

```
<!-- Enable/disable bank angle calculations for aircraft performance
modeling -->
<bankAngle>>true</bankAngle>

<!-- Sulfur related settings -->
<sulfurConversionRate>0.05</sulfurConversionRate>
<fuelSulfurContent>6.8E-4</fuelSulfurContent>

<!-- A description of the scenario -->
<description>Simple scenario</description>

<!-- List of airports to use for the scenario -->
<scenarioAirportLayoutSet>
  <scenarioAirportLayout>
    <airportLayoutName>KMDW</airportLayoutName>
  </scenarioAirportLayout>
</scenarioAirportLayoutSet>

<caseSet>
  <!-- One or more case elements -->
  <case>
    <!-- sequential case number unique in this scenario -->
    <caseId>0</caseId>

    <!-- user-defined case name -->
    <name>CaseA</name>

    <!-- Noise emissions source -->
    <source>Aircraft</source>

    <!-- Case start time and duration -->
    <startTime>2009-11-10T15:02:00</startTime>
    <duration>24</duration>

    <!-- Add trackOpSet elements here -->

  </case>
</caseSet>
</scenario>
```

### Step 5: Populate cases with tracks and air operations

The *trackOpSet* element defines a single track and any number of aircraft operations to be flown on that track. A track can be composed of one or more subtracks with dispersion values. An un-dispersed track has one subtrack with dispersion weight of 1. A dispersed track consists of multiple subtracks. The sum of the dispersion weights for all subtracks within a given track must equal 1. Operations defined for the track will be dispersed based on the dispersion weight amongst any subtracks that make up the track.

```
<trackOpSet>
  <!-- Single track element -->
  <track>
    <!-- user-defined track name -->
    <name>04R_Dep</name>
```

```
<!-- Track operation type: A = Arrival, D = Departure, O = Overflight
-->
<optype>D</optype>

<!-- Airport and runway for this track -->
<airport type="ICAO">KMDW</airport>
<runway>04R</runway>

<!-- tracks can be composed of multiple dispersed subtracks -->
<subtrack>

  <!-- the user-defined ID for the subtrack -->
  <id>0</id>

  <!-- The sum of the dispersionWeights for all subtracks within a
given track must equal 1 -->
  <dispersionWeight>1.0</dispersionWeight>

  <!-- Set of trackNode or trackVector elements, all must be the same
for each subtrack -->
  <trackNodes>
    <trackNode>
      <latitude>40.65640</latitude>
      <longitude>-73.71322</longitude>
    </trackNode>
    <trackNode>
      <latitude>40.65640</latitude>
      <longitude>-53.71322</longitude>
    </trackNode>
  </trackNodes>

</subtrack>
</track>

<operations>
<!--operation element represents one or more flights on a track-->
<operation>
  <!-- user-defined operation id -->
  <id>T9.1</id>

  <!-- AEDT aircraftType for this operation -->
  <aircraftType>
    <airframeModel>Raytheon Beech 1900-C</airframeModel>
    <engineCode>PT67B</engineCode>
    <engineModCode>NONE </engineModCode>
  </aircraftType>

  <!-- number of times to fly this operation -->
  <numOperations>1.0</numOperations>

  <!-- user-defined flight number, optional -->
  <flightNumber>CKE545</flightNumber>

  <!-- user-defined operation type, optional -->
  <userType>MU3001</userType>
```

```
<!-- user-defined parameter data, optional -->
<userParam>J</userParam>

<!-- arrival or departure airport and runway -->
<departureAirport type="ICAO">KMDW</departureAirport>
<departureRunway>04R</departureRunway>
<arrivalAirport type="FAA">LIT</arrivalAirport>

<!-- offTime for departures or onTime for arrivals -->
<offTime>2009-11-10T15:02:00</offTime>

<!-- aircraft profile for this operation -->
<saeProfile>STANDARD</saeProfile>
</operation>
</operations>
</trackOpSet>
```

### Step 6: Create annualization

Annualization is the process of performing a weighted summation<sup>1</sup> over the noise and emission results from some or all of the cases within a scenario in order to create results that represent noise and emissions exposures over a time period of interest. Each scenario element may contain an annualization element describing the weighted annualization tree.

```
<annualization>
  <!-- user-defined annualization name -->
  <name>Baseline_Annualization</name>

  <!-- Define one or more groups of cases and groups -->
  <annualizationGroup>

    <!-- Define rollup weight for this group -->
    <weight>1.0</weight>
    <!-- Associate scenario case with this annualization group -->
    <annualizationCase>
      <!-- Specify case name -->
      <name>CaseA</name>
      <!-- Define rollup weight for this case -->
      <weight>1.0</weight>
    </annualizationCase>

  </annualizationGroup>
</annualization>
```

### Step 7: Full ASIF

The full study ASIF is as follows:

---

<sup>1</sup> The word 'summation' is used figuratively and the actual process of correctly summing or adding together noise or emissions results depends upon the metric being used. For example: energy metric results would not be directly added together for a result since they are logarithmic values, but would rather be log-added.

```
<AsifXml version="1.2.15" content="study"
xmlns:AsifXml="http://www.faa.gov/ASIF"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

  <study xmlns:asif="http://www.faa.gov/ASIF">

    <!-- User-defined study name -->
    <name>ASIF_example</name>

    <!-- Study type - Emissions, Dispersion, Noise and Emissions, or Noise and
Dispersion -->
    <studyType>Noise and Emissions</studyType>

    <!-- Indicate the units used in the study -->
    <emissionsUnits>Kilograms</emissionsUnits>

    <!-- User-defined study description -->
    <description>A sample study</description>

    <airportLayoutSet>
      <airportLayout>
        <!-- User can specify an airport with user-defined runway -->
        <airportCode type="ICAO">KMDW</airportCode>

        <!-- Airports can have one or more runways defined -->
        <runwaySet>
          <runway>
            <!-- Runway length (in feet) -->
            <length>5932</length>

            <!-- Runway width (in feet) -->
            <width>150</width>

            <!-- One or more runway ends -->
            <runwayEnd>
              <!-- user-defined name for runway end -->
              <name>04R</name>

              <!-- latitude and longitude of runway end -->
              <latitude>41.779496</latitude>
              <longitude>-87.75876</longitude>

              <!-- elevation in feet -->
              <elevation>0.0</elevation>

              <!-- threshold crossing height (in feet) -->
              <threshCrossHeight>50.0</threshCrossHeight>

              <!-- glide slope for an approach to this runway end -->
              <glideSlope>3.0</glideSlope>

              <!-- displaced threshold for departure-->
              <depDispThresh>0.0</depDispThresh>

              <!-- displaced threshold for approach -->
              <appDispThresh>0.0</appDispThresh>
            </runwayEnd>
          </runway>
        </runwaySet>
      </airportLayout>
    </airportLayoutSet>
  </study>
</AsifXml>
```

```
<!-- Percent change in airport average headwind -->
<percentWind>0.0</percentWind>
</runwayEnd>
</runwayEnd>
<name>22L</name>
<latitude>41.791167</latitude>
<longitude>-87.743554</longitude>
<elevation>0.0</elevation>
<threshCrossHeight>50.0</threshCrossHeight>
<glideSlope>3.0</glideSlope>
<depDispThresh>0.0</depDispThresh>
<appDispThresh>0.0</appDispThresh>
<percentWind>0.0</percentWind>
</runwayEnd>
</runway>
</runwaySet>
</airportLayout>
</airportLayoutSet>

<receptorSet>
<!-- user-defined name -->
<name>gridfile_100x100</name>
<grid>
<!-- Latitude and longitude of southwest corner of grid -->
<latitude>41.97872</latitude>
<longitude>-87.90439</longitude>

<!-- Width and height of grid (in nautical miles) -->
<width>100.0</width>
<height>100.0</height>

<!-- Number of points across height and width of grid -->
<numWidth>100</numWidth>
<numHeight>100</numHeight>
</grid>
</receptorSet>

<scenario>
<!-- user-defined scenario name and description -->
<name>Baseline_Scenario</name>

<!-- user-defined start time for scenario -->
<startTime>2009-11-10T15:02:00</startTime>

<!-- Duration of scenario (in hours) -->
<duration>24</duration>

<!-- Taxi model for scenario -->
<taxiModel>UserSpecified</taxiModel>

<!-- Aircraft performance model -->
<acftPerfModel>SAE1845</acftPerfModel>

<!-- Enable/disable bank angle calculations for aircraft performance
modeling -->
```

```
<bankAngle>>true</bankAngle>

<!-- Sulfur related settings -->
<sulfurConversionRate>0.05</sulfurConversionRate>
<fuelSulfurContent>6.8E-4</fuelSulfurContent>

<!-- A description of the scenario -->
<description>A sample scenario</description>

<!-- List of airports to use for the scenario -->
<scenarioAirportLayoutSet>
  <scenarioAirportLayout>
    <airportLayoutName>KMDW</airportLayoutName>
  </scenarioAirportLayout>
</scenarioAirportLayoutSet>

<caseSet>
  <!-- One or more case elements -->
  <case>
    <!-- sequential case number unique in this scenario -->
    <caseId>0</caseId>

    <!-- user-defined case name -->
    <name>CaseA</name>

    <!-- Noise emissions source -->
    <source>Aircraft</source>

    <!-- Case start time and duration -->
    <startTime>2009-11-10T15:02:00</startTime>
    <duration>24</duration>

    <trackOpSet>
      <!-- Single track element -->
      <track>
        <!-- user-defined track name -->
        <name>04R_Dep</name>
        <!-- Track operation type: A = Arrival, D = Departure, O = Overflight -->
        <optype>D</optype>

        <!-- Airport and runway for this track -->
        <airport type="ICAO">KMDW</airport>
        <runway>04R</runway>

        <!-- tracks can be composed of multiple dispersed subtracks -->
        <subtrack>

          <!-- the user-defined ID for the subtrack -->
          <id>0</id>

          <!-- The sum of the dispersionWeights for all subtracks within a
          given track must equal 1 -->
          <dispersionWeight>1.0</dispersionWeight>
        </subtrack>
      </track>
    </trackOpSet>
  </case>
</caseSet>
-->
```



```
<!-- Set of trackNode or trackVector elements, all must be the same
for each subtrack -->
<trackNodes>
  <trackNode>
    <latitude>40.65640</latitude>
    <longitude>-73.71322</longitude>
  </trackNode>
  <trackNode>
    <latitude>40.65640</latitude>
    <longitude>-53.71322</longitude>
  </trackNode>
</trackNodes>

</subtrack>
</track>

<operations>
<!--operation element represents one or more flights on a track-->
<operation>
  <!-- user-defined operation id -->
  <id>T9.1</id>

  <!-- AEDT aircraftType for this operation -->
  <aircraftType>
    <airframeModel>Raytheon Beech 1900-C</airframeModel>
    <engineCode>PT67B</engineCode>
    <engineModCode>NONE </engineModCode>
  </aircraftType>

  <!-- number of times to fly this operation -->
  <numOperations>1.0</numOperations>

  <!-- user-defined flight number, optional -->
  <flightNumber>CKE545</flightNumber>

  <!-- user-defined operation type, optional -->
  <userType>MU3001</userType>

  <!-- user-defined parameter data, optional -->
  <userParam>J</userParam>

  <!-- arrival or departure airport and runway -->
  <departureAirport type="ICAO">KMDW</departureAirport>
  <departureRunway>04R</departureRunway>
  <arrivalAirport type="FAA">LIT</arrivalAirport>

  <!-- offTime for departures or onTime for arrivals -->
  <offTime>2009-11-10T15:02:00</offTime>

  <!-- aircraft profile for this operation -->
  <saeProfile>STANDARD</saeProfile>
</operation>
</operations>
</trackOpSet>

</case>
```

```
</caseSet>

<annualization>
  <!-- user-defined annualization name -->
  <name>Baseline_Annualization</name>

  <!-- Define one or more groups of cases and groups -->
  <annualizationGroup>

    <!-- Define rollup weight for this group -->
    <weight>1.0</weight>
    <!-- Associate scenario case with this annualization group -->
    <annualizationCase>
      <!-- Specify case name -->
      <name>CaseA</name>
      <!-- Define rollup weight for this case -->
      <weight>1.0</weight>
    </annualizationCase>

  </annualizationGroup>
</annualization>

</scenario>
</study>
</AsifXml>
```

## 3.2 Create an Emissions Dispersion Study

An emissions dispersion study contains the same core elements as a simple study (Section 3.1). In addition, a typical dispersion study includes additional airport features (gates, taxiways, taxipaths), operational profiles, airport configuration, and stationary sources.

1. Create an empty study file.
2. Populate the airport layout section.
  - a. Basic airport information (airport code and location)
  - b. Stationary sources
  - c. Airport gates/terminals
  - d. Taxiways
  - e. Runways
  - f. Taxipaths
  - g. Tracks
  - h. Airport configurations
3. Create receptor set.
4. Create scenario and case hierarchy.
  - a. Airport scenario properties
  - b. Non-aircraft operations case
  - c. Aircraft operations case

The following sections provide examples of the steps. This ASIF example should be used as an aid for understanding the ASIF format, and not as a data reference. This example is based on the STUDY\_PVD

study included with AEDT installation; but it has been much simplified for illustrative purposes. Please note that both the aircraft operations and the non-aircraft operations in this study are defined using operational profiles. When running profile-based aircraft operations, the “Apply Delay & Sequencing Model on Taxi” modeling option must be selected, and operating configuration and taxi network must exist in the airport layout.

### Step 1: Create empty study file

At a minimum, an ASIF consists of the standard XML declaration, a study section, and study metadata.



Study name must be at least five characters long and must not contain periods (.) or spaces.

```
<?xml version="1.0" encoding="utf-8"?>
<AsifXml xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.2.15" content="study">
  <study>
    <name>PVD2004_small</name>
    <studyType>Dispersion</studyType>
    <emissionsUnits>Kilograms</emissionsUnits>
    <description>A sample emissions study</description>

    <!-- Add airport layouts here -->
    <!-- Add receptors here -->
    <!-- Add scenarios here -->

  </study>
</AsifXml>
```

### Step 2: Populate airport layouts section

AEDT requires all airports in the study area to be declared. In addition to runways and tracks, the airport layout section can contain buildings, stationary sources of emissions (such as generators, training fires, or boilers), gates, terminals, taxiways, taxipaths, airport configurations, and operational profiles.

#### Step 2a: Define airport layout

Define the basic airport layout properties including layout name, airport code, and location.

```
<airportLayoutSet>
  <airportLayout>
    <name>Baseline_PVD2004_layout</name>
    <airportCode type="ICAO">KPVD</airportCode>
    <startDate>2004-01-01</startDate>
    <elevation>55</elevation> <!-- in feet -->
    <taxiInTime>7</taxiInTime> <!-- in minutes -->
    <taxiOutTime>19</taxiOutTime> <!-- in minutes -->
    <latitude>41.723999</latitude>
    <longitude>-71.428221</longitude>
```

#### Step 2b: Define stationary sources

Define each stationary source with an individual location definition, as well as other properties that describe the nature or amount of emissions. Each stationary source may have different elements associated with it. The example below defines an emergency generator.

```
<stationarySourceSet>
  <stationarySource>
    <name>600kw Emergency Gen-Baseline-KPVD-2004</name>
    <pointStationarySource>
      <pointCoord>
        <latitude>41.743248909695488</latitude>
        <longitude>-71.412168090784959</longitude>
      </pointCoord>
      <baseElevation>16.764</baseElevation> <!-- in meters -->
      <releaseHeight>12.192</releaseHeight> <!-- in meters -->
      <gasVelocity>15</gasVelocity> <!-- in meters/sec -->
      <stackDiameter>0.100584</stackDiameter> <!-- in meters -->
      <temperature>400</temperature> <!-- in Fahrenheit -->
    </pointStationarySource>
    <categoryGenerator>
      <typeCode>2</typeCode>
      <powerRatingHorsepower>1340</powerRatingHorsepower>
      <CO_EF>3.03</CO_EF>
      <TOC_EF>1.14</TOC_EF>
      <NOx_EF>14</NOx_EF>
      <SOx_EF>0.93</SOx_EF>
      <PM10_EF>0.998</PM10_EF>
      <pollutionControlFactorTOC>0</pollutionControlFactorTOC>
      <pollutionControlFactorCO>0</pollutionControlFactorCO>
      <pollutionControlFactorNOx>0</pollutionControlFactorNOx>
      <pollutionControlFactorSOx>0</pollutionControlFactorSOx>
      <pollutionControlFactorPM10>0</pollutionControlFactorPM10>
      <pm25ToPm10Ratio>1</pm25ToPm10Ratio>
    </categoryGenerator>
  </stationarySource>
</stationarySourceSet>
```

## Step 2c: Define airport gates/terminals

Airport gates can be defined as a point or a polygon. In AEDT, a polygon gate is referred as a terminal. For dispersion modeling, gates are modeled in AERMOD as either volume or area sources. A single-point gate (a pair of X/Y coordinates) is modeled as a volume source; while a polygon gate is modeled as an area source.

This example declares a terminal (polygon with eight points) which is defined by a set of latitude and longitude coordinates.

```
<gateSet>
  <gate>
    <name>AC</name>
    <elevation>16.76</elevation> <!-- in meters -->
    <releaseHeight>1.499616</releaseHeight> <!-- in meters -->
    <sigmaY>0.1</sigmaY>
    <sigmaZ>0.1</sigmaZ>
    <polygonCoords>
      <vertex>
        <latitude>41.745139410943032</latitude>
        <longitude>-71.410155909148983</longitude>
      </vertex>
      <vertex>
        <latitude>41.74454094786433</latitude>
```

```
    <longitude>-71.4088479272253</longitude>
  </vertex>
  <vertex>
    <latitude>41.739914698711225</latitude>
    <longitude>-71.412700204036113</longitude>
  </vertex>
  <vertex>
    <latitude>41.740535077085347</latitude>
    <longitude>-71.414048427664284</longitude>
  </vertex>
  <vertex>
    <latitude>41.742143089180551</latitude>
    <longitude>-71.4130440975597</longitude>
  </vertex>
  <vertex>
    <latitude>41.741863092089559</latitude>
    <longitude>-71.412435917483549</longitude>
  </vertex>
  <vertex>
    <latitude>41.743155491944563</latitude>
    <longitude>-71.411380309779929</longitude>
  </vertex>
  <vertex>
    <latitude>41.74350128931475</latitude>
    <longitude>-71.411515795803126</longitude>
  </vertex>
</polygonCoords>
</gate>
</gateSet>
```

## Step 2d: Define taxiways

Taxiways are line segments that link gates, runways, and other taxiways. They are composed of sequences of latitude and longitude coordinates, and specify the speed of aircraft that use them at each node.

Only the first two taxiways out of 24 are shown here for brevity. The entire taxiways are included in the example file.

```
<taxiwaySet>
  <taxiway>
    <name>A2 to 3</name>
    <dispersionWidth>22.86</dispersionWidth> <!-- in meters -->
    <taxiNodeSet>
      <taxiNode>
        <latitude>41.747442309926434</latitude>
        <longitude>-71.399033659570691</longitude>
        <elevation>16.76</elevation> <!-- in meters -->
        <speed>17</speed> <!-- in mph -->
      </taxiNode>
      <taxiNode>
        <latitude>41.746840990624833</latitude>
        <longitude>-71.397780701750833</longitude>
        <elevation>16.76</elevation>
        <speed>17</speed>
      </taxiNode>
    </taxiNodeSet>
  </taxiway>
</taxiwaySet>
```

```
</taxiNodeSet>
</taxiWay>

<taxiWay>
  <name>AC inout 1 to 2</name>
  <dispersionWidth>22.86</dispersionWidth>
  <taxiNodeSet>
    <taxiNode>
      <latitude>41.742510604805076</latitude>
      <longitude>-71.411486739128023</longitude>
      <elevation>16.76</elevation>
      <speed>17</speed>
    </taxiNode>
    <taxiNode>
      <latitude>41.742008226242724</latitude>
      <longitude>-71.410307016216962</longitude>
      <elevation>16.76</elevation>
      <speed>17</speed>
    </taxiNode>
  </taxiNodeSet>
</taxiWay>

.....

</taxiWaySet>
```

## Step 2e: Define runways

A runway in AEDT is defined by two runway ends. Runways are used by departing and arriving aircraft, and are linked to gates by taxipaths. The example below defines two runways: 05-23 and 16-34.

```
<runwaySet>
  <runway>
    <length>7069</length> <!-- in feet -->
    <width>150</width> <!-- in feet -->
    <runwayEnd>
      <name>05</name>
      <latitude>41.73040290796537</latitude>
      <longitude>-71.411541169743472</longitude>
      <elevation>54.986876640419943</elevation> <!-- in feet -->
      <gradeSlope>3</gradeSlope>
    </runwayEnd>
    <runwayEnd>
      <name>23</name>
      <latitude>41.746840990624833</latitude>
      <longitude>-71.397780701750833</longitude>
      <elevation>54.986876640419943</elevation>
      <gradeSlope>3</gradeSlope>
    </runwayEnd>
  </runway>

  <runway>
    <length>5961</length>
    <width>150</width>
    <runwayEnd>
      <name>16</name>
```

```
<latitude>41.748017908874452</latitude>  
<longitude>-71.4087003031238</longitude>  
<elevation>54.986876640419943</elevation>  
<glideslope>3</glideslope>  
</runwayEnd>  
<runwayEnd>  
<name>34</name>  
<latitude>41.735182619491127</latitude>  
<longitude>-71.395155630736014</longitude>  
<elevation>54.986876640419943</elevation>  
<glideslope>3</glideslope>  
</runwayEnd>  
</runway>  
</runwaySet>
```

### Step 2f: Assemble taxipaths

Taxipaths are a series of taxiways that aircraft takes from a gate to a runway end (outbound) or from a runway end to a gate (inbound). Taxipaths can be composed of multiple taxiway line segments; and separate taxipaths may share taxiways in common as paths across the airport.

Only the first two taxipaths out of eight are shown here for brevity. The entire taxipaths are included in the example file.

```
<taxi pathSet>
  <taxi path>
    <gateName>AC</gateName>
    <runwayName>05</runwayName>
    <direction>Outbound</direction>
    <taxi wayName>AC inout 1 to 2</taxi wayName>
    <taxi wayName>T3 to 4</taxi wayName>
    <taxi wayName>T4 to 5</taxi wayName>
    <taxi wayName>T5 to 6</taxi wayName>
    <taxi wayName>E1 to 2</taxi wayName>
    <taxi wayName>S2 to 3</taxi wayName>
    <taxi wayName>S3 to 4</taxi wayName>
  </taxi path>

  <taxi path>
    <gateName>AC</gateName>
    <runwayName>05</runwayName>
    <direction>Inbound</direction>
    <taxi wayName>N5 to 6</taxi wayName>
    <taxi wayName>N4 to 5</taxi wayName>
    <taxi wayName>N3 to 4</taxi wayName>
    <taxi wayName>N2 to 3</taxi wayName>
    <taxi wayName>T1 to 2</taxi wayName>
    <taxi wayName>T2 to 3</taxi wayName>
    <taxi wayName>AC inout 1 to 2</taxi wayName>
  </taxi path>

  .....

</taxi pathSet>
```



## Step 2g: Define tracks

Tracks are paths flown by aircraft, and are defined for an aircraft type (fixed-wing or rotary-wing) and an operation type (arrival, departure, or touch & go). This sample ASIF contains a total of 12 tracks consisting of arrival, departure, and touch & go tracks for each of the four runway ends. Only the first three tracks are shown here for brevity.

```
<trackSet>
  <track>
    <name>05_D_FixedWing</name>
    <optype>D</optype>
    <wingtype>F</wingtype>
    <airport type="ICAO">KPVD</airport>
    <runway>05</runway>
    <subtrack>
      <id>0</id>
      <dispersionweight>1</dispersionweight>
      <trackNodes>
        <trackNode>
          <latitude>41.73040290796537</latitude>
          <longitude>-71.411541169743472</longitude>
        </trackNode>
        <trackNode>
          <latitude>41.746840990624833</latitude>
          <longitude>-71.397780701750833</longitude>
        </trackNode>
        <trackNode>
          <latitude>43.137117876102565</latitude>
          <longitude>-70.202867639935235</longitude>
        </trackNode>
      </trackNodes>
    </subtrack>
  </track>

  <track>
    <name>23_D_FixedWing</name>
    <optype>D</optype>
    <wingtype>F</wingtype>
    <airport type="ICAO">KPVD</airport>
    <runway>23</runway>
    <subtrack>
      <id>0</id>
      <dispersionweight>1</dispersionweight>
      <trackNodes>
        <trackNode>
          <latitude>41.746840990624833</latitude>
          <longitude>-71.397780701750833</longitude>
        </trackNode>
        <trackNode>
          <latitude>41.73040290796537</latitude>
          <longitude>-71.411541169743472</longitude>
        </trackNode>
        <trackNode>
          <latitude>40.32809642691705</latitude>
          <longitude>-72.555207007763542</longitude>
        </trackNode>
      </trackNodes>
    </subtrack>
  </track>
```

```
    </trackNodes>
  </subtrack>
</track>

<track>
  <name>05_A_FixedWing</name>
  <optype>A</optype>
  <wingtype>F</wingtype>
  <airport type="ICAO">KPVD</airport>
  <runway>05</runway>
  <subtrack>
    <id>0</id>
    <dispersionWeight>1</dispersionWeight>
    <trackNodes>
      <trackNode>
        <latitude>40.32809642691705</latitude>
        <longitude>-72.555207007763542</longitude>
      </trackNode>
      <trackNode>
        <latitude>41.73040290796537</latitude>
        <longitude>-71.411541169743472</longitude>
      </trackNode>
    </trackNodes>
  </subtrack>
</track>
```

## Step 2h: Define airport operating configurations

Airport operating configurations specify the weather conditions and times under which particular runway assignments are made for aircraft based on the aircraft weight category (Small, Large, or Heavy). Operating configurations are only used if the Delay and Sequencing Modeling is selected.

A single configuration is defined in this example, but multiple configurations could be defined in an airport layout. Please note that the following <airportConfig> section does not contain any activation parameters (such as wind direction, wind speed, hour of day, ceiling, visibility, and temperature). This means that all the activation parameters are set to no bound.

```
<airportConfigSet>
  <airportConfig>
    <configurationName>Configuration</configurationName>
    <useDistriBution>false</useDistriBution>
    <airportCapacity>
      <capacityPoint>
        <arrivalPerHour>27</arrivalPerHour>
        <departuresPerHour>52</departuresPerHour>
      </capacityPoint>
      <capacityPoint>
        <arrivalPerHour>52</arrivalPerHour>
        <departuresPerHour>27</departuresPerHour>
      </capacityPoint>
    </airportCapacity>

    <runwayAssignmentSet>
      <runwayAssignment>
        <aircraftSize>S</aircraftSize>
        <runway>16</runway>
      </runwayAssignment>
    </runwayAssignmentSet>
  </airportConfig>
</airportConfigSet>
```

```
<arrivalPercentage>0.8</arrivalPercentage>
<departurePercentage>1.32</departurePercentage>
<tgoPercentage>0</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>S</aircraftSize>
  <runway>23</runway>
  <arrivalPercentage>50.74</arrivalPercentage>
  <departurePercentage>52.33</departurePercentage>
  <tgoPercentage>50</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>S</aircraftSize>
  <runway>34</runway>
  <arrivalPercentage>13.04</arrivalPercentage>
  <departurePercentage>8.06</departurePercentage>
  <tgoPercentage>15</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>S</aircraftSize>
  <runway>05</runway>
  <arrivalPercentage>35.42</arrivalPercentage>
  <departurePercentage>38.29</departurePercentage>
  <tgoPercentage>35</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>L</aircraftSize>
  <runway>16</runway>
  <arrivalPercentage>0.8</arrivalPercentage>
  <departurePercentage>1.32</departurePercentage>
  <tgoPercentage>0</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>L</aircraftSize>
  <runway>23</runway>
  <arrivalPercentage>50.74</arrivalPercentage>
  <departurePercentage>52.33</departurePercentage>
  <tgoPercentage>50</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>L</aircraftSize>
  <runway>34</runway>
  <arrivalPercentage>13.04</arrivalPercentage>
  <departurePercentage>8.06</departurePercentage>
  <tgoPercentage>15</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>L</aircraftSize>
  <runway>05</runway>
  <arrivalPercentage>35.42</arrivalPercentage>
  <departurePercentage>38.29</departurePercentage>
  <tgoPercentage>35</tgoPercentage>
</runwayAssignment>
<runwayAssignment>
  <aircraftSize>H</aircraftSize>
  <runway>16</runway>
  <arrivalPercentage>0.8</arrivalPercentage>
```

```
    <departurePercentage>1.32</departurePercentage>
    <tgoPercentage>0</tgoPercentage>
  </runwayAssignment>
</runwayAssignment>
  <aircraftSize>H</aircraftSize>
  <runway>23</runway>
  <arrivalPercentage>50.74</arrivalPercentage>
  <departurePercentage>52.33</departurePercentage>
  <tgoPercentage>50</tgoPercentage>
</runwayAssignment>
</runwayAssignment>
  <aircraftSize>H</aircraftSize>
  <runway>34</runway>
  <arrivalPercentage>13.04</arrivalPercentage>
  <departurePercentage>8.06</departurePercentage>
  <tgoPercentage>15</tgoPercentage>
</runwayAssignment>
</runwayAssignment>
  <aircraftSize>H</aircraftSize>
  <runway>05</runway>
  <arrivalPercentage>35.42</arrivalPercentage>
  <departurePercentage>38.29</departurePercentage>
  <tgoPercentage>35</tgoPercentage>
</runwayAssignment>
</runwayAssignmentSet>
</airportConfig>
</airportConfigSet>
```

## Step 2i: Define operational profiles

Operational profiles allow the user to define variations in activity throughout a day, week, or year. The three types of operational profiles are Quarter-Hourly, Daily, and Monthly. When using operational profiles in a study, at least one profile for each profile type (Quarter Hourly, Daily, and Monthly) must be defined.

These profiles provide a weighting factor that determines how often activity occurs during the time period. Aircraft and non-aircraft sources can all be assigned operational profiles. For this example, the same profiles are used for all both aircraft and non-aircraft sources; but in practice different profiles will be defined for aircraft, GSEs, or stationary sources.

Only the first part of the quarterly-hour profile is shown here for brevity. The entire profile is given in the example file.

```
<quarterHourlyProfileSet>
  <quarterHourlyProfile>
    <profileName>Aircraft-Baseline-KPVD</profileName>
    <temporalFactor startHour="0" startMinutes="0">0.1092</temporalFactor>
    <temporalFactor startHour="0" startMinutes="15">0.0712</temporalFactor>
    <temporalFactor startHour="0" startMinutes="30">0.0452</temporalFactor>
    <temporalFactor startHour="0" startMinutes="45">0.0274</temporalFactor>
    <temporalFactor startHour="1" startMinutes="0">0.0226</temporalFactor>
    <temporalFactor startHour="1" startMinutes="15">0.0144</temporalFactor>
    <temporalFactor startHour="1" startMinutes="30">0.0135</temporalFactor>
    <temporalFactor startHour="1" startMinutes="45">0.0087</temporalFactor>
```

```
.....  
</quarterHourlyProfile>  
</quarterHourlyProfileSet>  
  
<dailyProfileSet>  
  <dailyProfile>  
    <profileName>Aircraft-Baseline-KPVD</profileName>  
    <temporalFactorSunday>0.8889</temporalFactorSunday>  
    <temporalFactorMonday>0.9354</temporalFactorMonday>  
    <temporalFactorTuesday>0.9565</temporalFactorTuesday>  
    <temporalFactorWednesday>0.9494</temporalFactorWednesday>  
    <temporalFactorThursday>1</temporalFactorThursday>  
    <temporalFactorFriday>0.9494</temporalFactorFriday>  
    <temporalFactorSaturday>0.8103</temporalFactorSaturday>  
  </dailyProfile>  
</dailyProfileSet>  
  
<monthlyProfileSet>  
  <monthlyProfile>  
    <profileName>Aircraft-Baseline-KPVD</profileName>  
    <temporalFactorJanuary>0.6097</temporalFactorJanuary>  
    <temporalFactorFebruary>0.768</temporalFactorFebruary>  
    <temporalFactorMarch>0.7468</temporalFactorMarch>  
    <temporalFactorApril>0.6508</temporalFactorApril>  
    <temporalFactorMay>0.7803</temporalFactorMay>  
    <temporalFactorJune>0.9452</temporalFactorJune>  
    <temporalFactorJuly>0.9967</temporalFactorJuly>  
    <temporalFactorAugust>1</temporalFactorAugust>  
    <temporalFactorSeptember>0.963</temporalFactorSeptember>  
    <temporalFactorOctober>0.9657</temporalFactorOctober>  
    <temporalFactorNovember>0.8889</temporalFactorNovember>  
    <temporalFactorDecember>0.8374</temporalFactorDecember>  
  </monthlyProfile>  
</monthlyProfileSet>  
  
<activityProfileSet>  
  <activityProfile name="ActivityProfile-Baseline-KPVD-0-0-0">  
    <quarterHourlyProfile>Aircraft-Baseline-KPVD</quarterHourlyProfile>  
    <dailyProfile>Aircraft-Baseline-KPVD</dailyProfile>  
    <monthlyProfile>Aircraft-Baseline-KPVD</monthlyProfile>  
  </activityProfile>  
</activityProfileSet>
```

### Step 3: Define receptor set

The receptor set defines a set of points or a grid in which noise or emission concentrations will be modeled. A receptor set is required for dispersion modeling.

```
<receptorSet>
  <name>CartesianReceptors-Baseline-KPVD</name>
  <pointReceptor>
    <name>01</name>
    <latitude>41.755692229957511</latitude>
    <longitude>-71.401734634031868</longitude>
    <elevation>54.986876640419943</elevation>      <!-- in feet -->
    <receptorHeight>5.909999999999993</receptorHeight> <!-- in feet -->
  </pointReceptor>

  <pointReceptor>
    <name>05</name>
    <latitude>41.757757081502177</latitude>
    <longitude>-71.387029661597552</longitude>
    <elevation>54.986876640419943</elevation>
    <receptorHeight>5.909999999999993</receptorHeight>
  </pointReceptor>

  <pointReceptor>
    <name>11</name>
    <latitude>41.729547105591479</latitude>
    <longitude>-71.399671869272</longitude>
    <elevation>54.986876640419943</elevation>
    <receptorHeight>5.909999999999993</receptorHeight>
  </pointReceptor>

  <pointReceptor>
    <name>17</name>
    <latitude>41.727308139168834</latitude>
    <longitude>-71.418091960358765</longitude>
    <elevation>54.986876640419943</elevation>
    <receptorHeight>5.909999999999993</receptorHeight>
  </pointReceptor>
</receptorSet>
```

### Step 4: Define scenario and case hierarchy

A scenario contains a set of cases, which contain groups of aircraft operations, non-aircraft operations, and runup operations.

#### Step 4a: Define scenario properties

Define the basic scenario properties including airport information, weather data, and study time.

```
<scenario>
  <name>2004-Baseline</name>
  <startTime>2004-01-01T00:00:00</startTime>
  <duration>8784</duration> <!-- in hours -->
  <taxiModel>Sequencing</taxiModel>
  <timeInModeBasis>Performance</timeInModeBasis>
  <acftPerfModel>SAE1845</acftPerfModel>
  <bankAngle>false</bankAngle>
```

```
<suffixConversionRate>0.005</suffixConversionRate>
<description> for year 2004</description>
<scenarioAirportLayoutSet>
  <scenarioAirportLayout>
    <airportLayoutName>Baseline_PVD2004_layout</airportLayoutName>
    <mixingHeight>2226</mixingHeight> <!-- in feet -->
    <useHourlyMetData>true</useHourlyMetData>
    <averageTemperature>50.4</averageTemperature> <!-- in Fahrenheit -->
    <dailyHighTemperature>69.35</dailyHighTemperature> <!-- in Fahrenheit -->
    <dailyLowTemperature>48.65</dailyLowTemperature> <!-- in Fahrenheit -->
    <pressure>29.92</pressure> <!-- in inches of Hg -->
    <pressureMSL>29.92</pressureMSL> <!-- in inches of Hg -->
    <humidity>60</humidity> <!-- in percentage -->
    <windSpeed>8</windSpeed> <!-- in knots -->
    <windDirection>0</windDirection> <!-- in degrees -->
    <ceiling>99999.99</ceiling> <!-- in feet -->
    <visibility>50</visibility> <!-- in miles -->
  </scenarioAirportLayout>
</scenarioAirportLayoutSet>
```

#### Step 4b: Define the case for non-aircraft operations

This study contains two cases. The first case contains non-aircraft operations (i.e., stationary source operations). The second case contains aircraft operations and GSEs assigned to those aircraft.

The example below declares the first case (non-aircraft operations). The second case (aircraft operations) is described in the next Step 4c.

```
<caseSet>
  <case>
    <caseId>-1623425151</caseId>
    <name>2004_Baseline_NonAircraft</name>
    <startTime>2004-01-01T00:00:00</startTime>
    <duration>8784</duration>
    <stationarySourceOperationSet>
      <stationarySourceOperation>
        <refName>600kw_Emergency_Gen-Baseline-KPVD-2004</refName>
        <emissionsUsage>
          <yearlyValue>500</yearlyValue>
          <activityProfile>ActivityProfile-Baseline-KPVD-0-0-0</activityProfile>
        </emissionsUsage>
      </stationarySourceOperation>
    </stationarySourceOperationSet>
  </case>
```

#### Step 4c: Define the case for aircraft operations

This section defines aircraft operations, as well as GSEs assigned to those aircraft. In this example, a single aircraft type is used with a simplified set of assigned GSEs. In practice, a variety of aircraft types and GSEs would appear in a single study.

```
<case>
  <caseId>466140608</caseId>
  <name>2004_Baseline_Operations</name>
  <startTime>2004-01-01T00:00:00</startTime>
  <duration>8784</duration>
  <operation>
```

```
<i d>D_1</i d>
<aircraftType>
  <airframeModel>Airbus A319-100 Series</airframeModel>
  <engineCode>3CM028</engineCode>
  <apuName>APU GTCP 36-300 (80HP)</apuName>
  <groundSupportEquipmentLT00operationSet>
    <groundSupportEquipmentLT00operation>
      <gseID>8</gseID>
      <fuelType>Diesel</fuelType>
      <horsepower>88</horsepower>
      <loadFactor>0.8</loadFactor>
      <departureOpTime>3.9</departureOpTime> <!-- in minutes -->
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>13</gseID>
      <fuelType>Gasoline</fuelType>
      <horsepower>107</horsepower>
      <loadFactor>0.55</loadFactor>
      <departureOpTime>8</departureOpTime>
      <arrivalOpTime>8</arrivalOpTime>
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>14</gseID>
      <fuelType>Gasoline</fuelType>
      <horsepower>107</horsepower>
      <loadFactor>0.5</loadFactor>
      <departureOpTime>11</departureOpTime>
      <arrivalOpTime>12</arrivalOpTime>
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>17</gseID>
      <fuelType>Diesel</fuelType>
      <horsepower>210</horsepower>
      <loadFactor>0.53</loadFactor>
      <departureOpTime>9.7</departureOpTime>
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>29</gseID>
      <fuelType>Diesel</fuelType>
      <horsepower>175</horsepower>
      <loadFactor>0.25</loadFactor>
      <departureOpTime>14</departureOpTime>
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>36</gseID>
      <fuelType>Diesel</fuelType>
      <horsepower>56</horsepower>
      <loadFactor>0.25</loadFactor>
      <arrivalOpTime>2.1</arrivalOpTime>
    </groundSupportEquipmentLT00operation>
    <groundSupportEquipmentLT00operation>
      <gseID>41</gseID>
      <fuelType>Diesel</fuelType>
      <horsepower>235</horsepower>
      <loadFactor>0.2</loadFactor>
      <departureOpTime>8</departureOpTime>
      <arrivalOpTime>7</arrivalOpTime>
    </groundSupportEquipmentLT00operation>
  </groundSupportEquipmentLT00operationSet>

```



```
    </groundSupportEquipmentLT00operation>
  </groundSupportEquipmentLT00operationSet>
</aircraftType>
<numOperations>366</numOperations>
<opType>D</opType>
<departureAirport type="ICAO">KPVD</departureAirport>
<departureGate>AC</departureGate>
<departureApuTime>3.5</departureApuTime> <!-- in minutes -->
<taxiOutDuration>10.72</taxiOutDuration> <!-- in minutes -->
<taxiInDuration>6.24</taxiInDuration> <!-- in minutes -->
<activityProfile>ActivityProfile-Baseline-KPVD-0-0-0</activityProfile>
<actypeWeight>146100</actypeWeight> <!-- in pounds -->
<fuelSulfurContent>0.00068</fuelSulfurContent>
</operation>

<operation>
  <id>A_1</id>
  <aircraftType>
    <airframeModel>Airbus A319-100 Series</airframeModel>
    <engineCode>3CM028</engineCode>
    <apuName>APU GTCP 36-300 (80HP)</apuName>
    <groundSupportEquipmentLT00operationSet>
      <groundSupportEquipmentLT00operation>
        <gseID>8</gseID>
        <fuelType>Diesel</fuelType>
        <horsepower>88</horsepower>
        <loadFactor>0.8</loadFactor>
        <departureOpTime>3.9</departureOpTime>
      </groundSupportEquipmentLT00operation>
      <groundSupportEquipmentLT00operation>
        <gseID>13</gseID>
        <fuelType>Gasoline</fuelType>
        <horsepower>107</horsepower>
        <loadFactor>0.55</loadFactor>
        <departureOpTime>8</departureOpTime>
        <arrivalOpTime>8</arrivalOpTime>
      </groundSupportEquipmentLT00operation>
      <groundSupportEquipmentLT00operation>
        <gseID>14</gseID>
        <fuelType>Gasoline</fuelType>
        <horsepower>107</horsepower>
        <loadFactor>0.5</loadFactor>
        <departureOpTime>11</departureOpTime>
        <arrivalOpTime>12</arrivalOpTime>
      </groundSupportEquipmentLT00operation>
      <groundSupportEquipmentLT00operation>
        <gseID>17</gseID>
        <fuelType>Diesel</fuelType>
        <horsepower>210</horsepower>
        <loadFactor>0.53</loadFactor>
        <departureOpTime>9.7</departureOpTime>
      </groundSupportEquipmentLT00operation>
      <groundSupportEquipmentLT00operation>
        <gseID>29</gseID>
        <fuelType>Diesel</fuelType>
        <horsepower>175</horsepower>
        <loadFactor>0.25</loadFactor>
      </groundSupportEquipmentLT00operation>
    </groundSupportEquipmentLT00operationSet>
  </aircraftType>

```

```
        <departureOpTime>14</departureOpTime>
    </groundSupportEquipmentLT0operation>
</groundSupportEquipmentLT0operation>
    <gseID>36</gseID>
    <fuelType>Diesel</fuelType>
    <horsepower>56</horsepower>
    <loadFactor>0.25</loadFactor>
    <arrivalOpTime>2.1</arrivalOpTime>
</groundSupportEquipmentLT0operation>
</groundSupportEquipmentLT0operation>
    <gseID>41</gseID>
    <fuelType>Diesel</fuelType>
    <horsepower>235</horsepower>
    <loadFactor>0.2</loadFactor>
    <departureOpTime>8</departureOpTime>
    <arrivalOpTime>7</arrivalOpTime>
</groundSupportEquipmentLT0operation>
</groundSupportEquipmentLT0operationSet>
</aircraftType>
<numOperations>366</numOperations>
<opType>A</opType>
<arrivalAirport type="ICAO">KPVD</arrivalAirport>
<arrivalGate>AC</arrivalGate>
<arrivalApuTime>3.5</arrivalApuTime>
<taxiOutDuration>10.72</taxiOutDuration>
<taxiInDuration>6.24</taxiInDuration>
<activityProfile>ActivityProfile-Baseline-KPVD-0-0-0</activityProfile>
<actypeWeight>137800</actypeWeight>
<fuelSulfurContent>0.00068</fuelSulfurContent>
</operation>
</case>
</caseSet>
```

### Step 5: Full ASIF

The full ASIF, *asif\_emissions\_study.xml*, is located in the directory: C:\Program Files\FAA\AEDT\Examples

1. Import the full ASIF in AEDT.
2. Create an annualization.
3. Create a metric result.

Please note that both the aircraft operations and the non-aircraft operations in this study are defined using operational profiles. When running profile-based aircraft operations, the "Apply Delay & Sequencing Model on Taxi" modeling option must be selected, and operating configuration and taxi network must exist in the airport layout.

### 3.3 Create a User-Defined Aircraft with Custom ANP Flight Profiles

AEDT supports creating a new user-defined aircraft in the *Equipment* tab, but it does not support adding/editing ANP flight profiles of the new aircraft in the user interface. This section explains how to add custom ANP flight profiles to a new aircraft by using ASIF.

Follow the steps below to create a user-defined aircraft with custom ANP flight profiles:

#### Step 1: Copy an existing system aircraft to create a new user-defined aircraft

1. In AEDT, go to the *Equipment* tab, *Aircraft*.
2. Select the aircraft to modify and click *Copy*.
3. Enter a suffix and click *Save*.
4. A new user-defined aircraft is created.

#### Step 2: Export the new aircraft then delete it

1. Select the new aircraft and click *Export Aircraft* button.
2. The aircraft data is exported as a partial ASIF.
3. Click the *Delete* button to delete the new aircraft. This aircraft is no longer needed, because it will be edited in the ASIF and imported back into AEDT.

#### Step 3: Open and edit the exported ASIF

1. Open the exported ASIF.
2. Under the <anpProfileSet>, copy and paste one of the existing <profile> sections.
3. Modify the new <profile> section by editing the profile properties. Refer to the AEDT User Guide for details on how to define procedural profiles for civil airplanes and helicopters.
4. Add additional profiles as needed.
5. Save the ASIF.

#### Step 4: Import the ASIF

1. In AEDT, in the *Equipment* tab, click *Import Aircraft* button, select the updated ASIF and click *Open*. The new aircraft is listed in the *Equipment* tab.
2. Select the new aircraft and confirm that custom profiles have been added.



AEDT 3b currently does not support defining BADA 4 profiles in ASIF; however user-defined BADA 4 profiles for a new aircraft can be created in the AEDT user interface. Note that when an aircraft with user-defined BADA 4 profiles is exported to ASIF, BADA 4 profiles data are not included in the ASIF.

## 4 ASIF Design Consideration

### 4.1 Airport Layout and Runways

When defining an airport under the *airportLayout* element, users have the option to specify runway definitions using the *runwaySet* element. If runways are not specified in ASIF, then the runway data from the AEDT Airport database will be copied during the ASIF import.

For AEDT 3a, the AEDT Airport Database has been updated with the latest runway data.

- In the AEDT User Interface, if an existing airport that has extended runways or renamed runways is added, multiple airport layouts will be listed for that airport with different effective - expiration date ranges.
- In the ASIF, if an existing airport that has extended runways or renamed runways is specified but runway data is not provided, then AEDT will copy all the runways (both expired and the latest) from the Airport database into a single airport layout.

In the example below, KATL is defined without any runway specifications. During ASIF import, AEDT will copy the runways from the Airport database.

```
<airportLayout>  
  <airportCode type="ICAO">KATL</airportCode>  
</airportLayout>
```

The following screenshot shows the single airport layout for KATL airport which lists the runway ends 09L and 27R twice; and lists the runways 09L-27R twice.

In such a case, it is recommended to delete the duplicate runway ends and runways from the study. Review the effective date and expiration date of the runway ends/runways in the study database to determine which ones are expired vs. latest. Alternatively, specify runways in the ASIF using the *runwaySet* element.

Layout: KATL\_layout  
 Effective date: 1/1/1900 Taxi-in time: 0 minutes 0 seconds  
 Expiration date: 6/6/2079 Taxi-out time: 0 minutes 0 seconds

Ground Elements Tracks

Drag a column header and drop it here to group by that column

Type	ID	Name
Runway end	72254	08L
Runway end	84857	26R
Runway end	72255	08R
Runway end	84858	26L
Runway end	72256	09L
Runway end	84859	27R
Runway end	72257	09R
Runway end	84860	27L
Runway end	72258	10
Runway end	84861	28
Helipad	72259	H1
Runway end	121432	27R
Runway end	122606	09L
Runway	36926	08L - 26R
Runway	36927	08R - 26L
Runway	36928	09L - 27R
Runway	36929	09R - 27L
Runway	36930	10 - 28
Runway	36931	H1
Runway	67816	27R - 09L

20 of 20 item(s) shown. 0 item(s) selected.

## 4.2 Event Consolidation

AEDT calculates noise for all air operations (e.g. all instances of an aircraft and track) in a given case, which differs from the legacy tool, NIRS. In order to optimize noise modeling performance in AEDT, it is suggested to combine like operations in a case into a representative single air operation for entry into the ASIF.

## 4.3 Control Codes

The altitude and/or speed of an airplane as it passes over a track node can be controlled to some extent by assigning track controls to that track node. Track controls are an optional feature that are used to specify targets and restrictions on altitude and/or speed on tracks – altitude controls affect airplane altitude; and speed controls affect airplane speed.

Each track control has two components: a value and a code. The value establishes a reference altitude or speed (appropriate to the control type), and the code specifies how that value should be interpreted in flight analysis.

In the ASIF schema, an altitude control is assigned to a *trackNode* by providing the control altitude as *trackNode/altitude*, and the control code as *trackNode/altitude/control*. Likewise, a speed control is

defined by providing *trackNode/speed*, and the control code as *trackNode/speed/control*. Note that no control is defined if any of the following are true:

- A value is not provided;
- A code is not provided; or
- The code provided has a value of "0" or "None".

Furthermore, AEDT will ignore the following controls:

- Altitude controls with altitude values below 500 ft. AFE.
- All speed controls, if using the Doc 29/BADA 3 performance model.
- All speed controls, if the operation is an overflight.
- All controls, if the operation is a circuit or touch-and-go.

Also note that if there are any controls defined on an overflight, there must be controls defined (and observed, per the control-ignoring rules above) on the first and last nodes of the track.

AEDT computes performance to the following extents:

- Departure and approach performance is computed between ground roll and the observed control that is trackwise furthest from ground roll.
- Overflight performance is computed from the first track point to the last track point (both of which must have observed controls).

Performance is computed as close as possible to the observed control values, subject to the airplane's performance capabilities, as described in the AEDT Technical Manual. The computed best effort to achieve these targeted values is checked against the restrictions implied by the control codes:

- Control code "1" or "At or Below": the airplane is not allowed above the value
- Control code "2" or "Match": the airplane is not allowed above or below the value
- Control code "3" or "At or Above": the airplane is not allowed below the value

If the best effort fails to comply with the restriction, the flight's performance is discarded by AEDT, logged in the error log, and its impact is excluded from environmental metrics. For more information on track controls, refer to Section 3.9.1 Track Control Flights in the AEDT Technical Manual.

When translating NIRS inputs to ASIF, omitting altitude controls with altitude values below 3000 ft AFE will lead to the most comparable result, as NIRS ignored these controls. When modeling runway to runway operations using sensor path data, define the flight path using the ASIF *sensorPath* element rather than the track element. Sensor paths provide more direct control of altitude for an aircraft trajectory.

#### 4.4 Assign Default Ground Support Equipment (GSE) to Aircraft Operations

The *assignDefaultGse* element in the ASIF schema is used to assign default ground support equipment (GSE) to aircraft operation instead of writing out each GSE operation.

In this departure operation example, the *assignDefaultGse* is set to true. This will assign the default GSE for “Airbus A319-100 Series” to the operation. The default GSEs for the Airbus A319-100 Series, departure operation are listed in the table below. The default GSE assignments for airframe is stored in the FLT\_GSE\_AC\_DEFAULTS table.

```
<operation>
  <id>D_1</id>
  <aircraftType>
    <airframeModel>Airbus A319-100 Series</airframeModel>
    <engineCode>3CM028</engineCode>
    <apuName>APU GTCP 36-300 (80HP)</apuName>
    <assignDefaultGse>true</assignDefaultGse>
  </aircraftType>
  <numOperations>1</numOperations>
  <opType>D</opType>
  .....
  .....
```

Default GSEs for Airbus A319-100 Series – Departure Operation

GSE Name	Duration (mins)	Horsepower	Load Factor	Manufacture Year
Electric - None - Air Conditioner	23	0	0.75	NA
Diesel - ACE 180 - Air Start	7	425	0.9	NA
"Diesel - Stewart & Stevenson TUG GT-35, Douglas TBL-180 - Aircraft Tractor"	8	88	0.8	NA
Gasoline - Stewart & Stevenson TUG MA 50 - Baggage Tractor	38	107	0.55	NA
Gasoline - Stewart & Stevenson TUG 660 - Belt Loader	24	107	0.5	NA
Diesel - Hi-Way F650 - Cabin Service Truck	10	210	0.53	NA
Diesel - Hi-Way F650 - Catering Truck	8	210	0.53	NA
Diesel - F250 / F350 - Hydrant Truck	12	235	0.7	NA
Diesel - TLD 1410 - Lavatory Truck	0	56	0.25	NA
Diesel - F250 / F350 - Service Truck	8	235	0.2	NA
Electric - Gate Service - Water Service	12	0	0.2	NA

To specify individual GSEs for the aircraft operation, use the *groundSupportEquipmentLTOOperationSet*, as follows:

```
<operati on>
  <i d>D_1</i d>
  <ai rcraftType>
    <ai rframeModel>Air bus A319- 100 Seri es</ai rframeModel >
    <engi neCode>3CM028</engi neCode>
    <apuName>APU GTCP 36- 300 (80HP) </apuName>
    <groundSupportEqui pmentLT0operati onSet>
      <groundSupportEqui pmentLT0operati on>
        <gseID>8</gseID>
        <fuel Type>Di esel </fuel Type>
        <horsepower>88</horsepower>
        <l oadFactor>0. 8</l oadFactor>
        <departureOpTi me>3. 9</departureOpTi me>
      </groundSupportEqui pmentLT0operati on>
      <groundSupportEqui pmentLT0operati on>
        <gseID>13</gseID>
        <fuel Type>Gasol i ne</fuel Type>
        <horsepower>107</horsepower>
        <l oadFactor>0. 55</l oadFactor>
        <departureOpTi me>8</departureOpTi me>
        <arri val OpTi me>8</arri val OpTi me>
      </groundSupportEqui pmentLT0operati on>
      <groundSupportEqui pmentLT0operati on>
        <gseID>14</gseID>
        <fuel Type>Gasol i ne</fuel Type>
        <horsepower>107</horsepower>
        <l oadFactor>0. 5</l oadFactor>
        <departureOpTi me>11</departureOpTi me>
        <arri val OpTi me>12</arri val OpTi me>
      </groundSupportEqui pmentLT0operati on>
      <groundSupportEqui pmentLT0operati on>
        <gseID>17</gseID>
        <fuel Type>Di esel </fuel Type>
        <horsepower>210</horsepower>
        <l oadFactor>0. 53</l oadFactor>
        <departureOpTi me>9. 7</departureOpTi me>
      </groundSupportEqui pmentLT0operati on>
      <groundSupportEqui pmentLT0operati on>
        <gseID>29</gseID>
        <fuel Type>Di esel </fuel Type>
        <horsepower>175</horsepower>
        <l oadFactor>0. 25</l oadFactor>
        <departureOpTi me>14</departureOpTi me>
      </groundSupportEqui pmentLT0operati on>
      <groundSupportEqui pmentLT0operati on>
        <gseID>36</gseID>
        <fuel Type>Di esel </fuel Type>
        <horsepower>56</horsepower>
        <l oadFactor>0. 25</l oadFactor>
        <arri val OpTi me>2. 1</arri val OpTi me>
```



```
</groundSupportEquipmentLT00operation>  
<groundSupportEquipmentLT00operation>  
  <gseID>41</gseID>  
  <fuelType>Diesel</fuelType>  
  <horsepower>235</horsepower>  
  <loadFactor>0.2</loadFactor>  
  <departureOpTime>8</departureOpTime>  
  <arrivalOpTime>7</arrivalOpTime>  
</groundSupportEquipmentLT00operation>  
</groundSupportEquipmentLT00operationSet>  
</aircraftType>  
<numOperations>1</numOperations>  
<opType>D</opType>  
.....  
.....
```

## 5 ASIF Schema Documentation

Click on the following links to view descriptions for ASIF elements, groups, complex types and simple types.

## Schema ASIFMerge.xsd

schema location: [ASIFMerge.xsd](#)

attributeFormDefault: **unqualified**

elementFormDefault: **qualified**

### Elements

[activityProfile](#)  
[activityProfileSet](#)  
[airportCapacity](#)  
[airportConfig](#)  
[airportConfigSet](#)  
[airportLayoutSet](#)  
[airportWeather](#)  
[airportWeatherStation](#)  
[annualization](#)  
[annualizationCase](#)  
[annualizationGroup](#)  
[areaStationarySource](#)  
[AsifXml](#)  
[backbone](#)  
[backboneNode](#)  
[backboneNodes](#)  
[boilerHeaterTypeCode](#)  
[boundary](#)  
[building](#)  
[buildingSet](#)  
[capacityPoint](#)  
[case](#)  
[caseSet](#)  
[categoryAircraftEngine](#)  
[categoryBoilerHeater](#)  
[categoryDeicingArea](#)  
[categoryFuelTank](#)  
[categoryGenerator](#)  
[categoryIncinerator](#)  
[categoryOther](#)  
[categoryRecordCode](#)  
[categorySandSaltPile](#)  
[categorySolventDegreaser](#)  
[categorySurfaceCoatingPainting](#)  
[categoryTrainingFire](#)  
[centroid](#)  
[climate](#)  
[dailyProfile](#)  
[dailyProfileSet](#)  
[dispersionWeight](#)  
[emissionsUsage](#)  
[engineModeEmissionFactors](#)  
[gate](#)  
[gateSet](#)  
[grid](#)  
[groundSupportEquipmentGateAssignment](#)  
[groundSupportEquipmentGateAssignmentSet](#)  
[groundSupportEquipmentLTOOperation](#)  
[groundSupportEquipmentLTOOperationSet](#)  
[groundSupportEquipmentPopulationOperation](#)  
[groundSupportEquipmentPopulationOperationSet](#)  
[monthlyProfile](#)  
[monthlyProfileSet](#)  
[operation](#)  
[operationalProfileSet](#)  
[operations](#)  
[options](#)  
[parkingFacility](#)  
[parkingFacilityOperation](#)  
[parkingFacilityOperationSet](#)  
[parkingFacilitySet](#)  
[pointReceptor](#)  
[pointStationarySource](#)  
[polarGrid](#)  
[polarReceptor](#)  
[quarterHourlyProfile](#)  
[quarterHourlyProfileSet](#)

### Groups

[airportActivityGroup](#)  
[annualizationGroupCase](#)  
[coord2DGroup](#)  
[latlonCoordGroup](#)  
[nodeIdGroup](#)  
[oneOrThreeCoords2DGroupSet](#)  
[receptorGroup](#)  
[utmCoordGroup](#)

### Complex types

[aircraft](#)  
[aircraftEngine](#)  
[aircraftEngineMod](#)  
[aircraftType](#)  
[airframe](#)  
[airport](#)  
[airportCode](#)  
[airportLayoutType](#)  
[anpAirplane](#)  
[anpFlaps](#)  
[anpFlapsSet](#)  
[anpHelicopter](#)  
[anpHeloDirectivity](#)  
[anpHeloDirectivitySet](#)  
[anpHeloNoiseGroup](#)  
[anpHeloNPDCurve](#)  
[anpHeloNPDCurves](#)  
[anpHeloProcedureStep](#)  
[anpHeloProfile](#)  
[anpHeloProfileSet](#)  
[anpNoiseGroup](#)  
[anpNPDCurve](#)  
[anpNPDCurves](#)  
[anpProcedureStep](#)  
[anpProcedureSteps](#)  
[anpProfile](#)  
[anpProfilePoint](#)  
[anpProfilePoints](#)  
[anpProfileSet](#)  
[anpThrustGeneral](#)  
[anpThrustJet](#)  
[anpThrustProp](#)  
[anpThrustSet](#)  
[anpTsfCoefficients](#)  
[auxiliaryPowerUnit](#)  
[badaAirplane](#)  
[badaAltitudeDistribution](#)  
[badaAltitudeDistributionSet](#)  
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[runup](#)  
[runwayEnd](#)  
[scenarioAirportLayoutType](#)

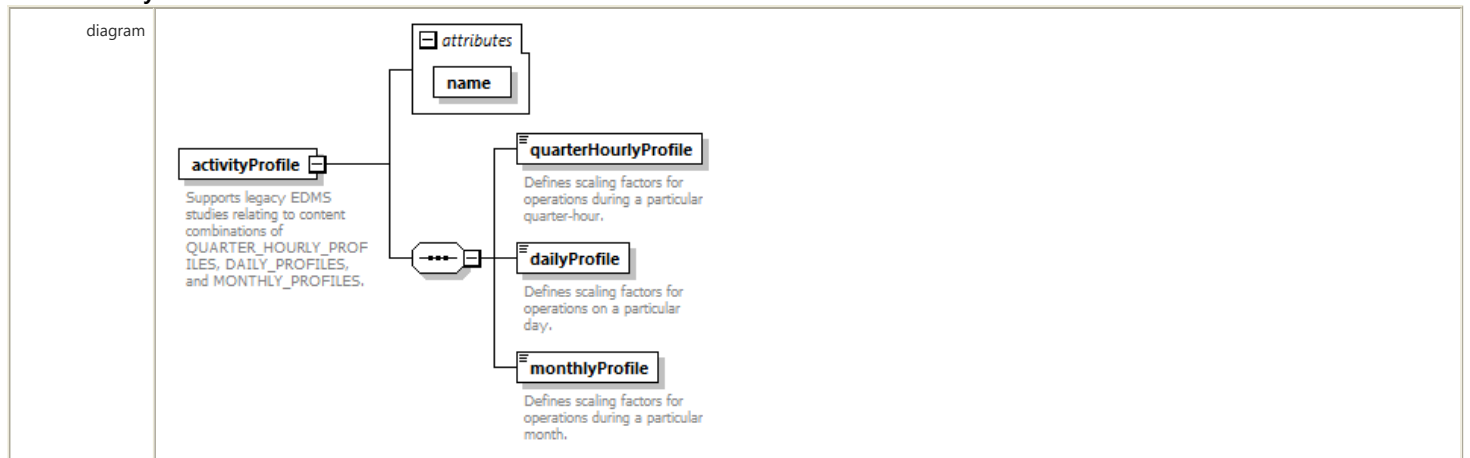
### Simple types

[aircraftPerformanceModelType](#)  
[AircraftSizeType](#)  
[airframeModel](#)  
[airportCodeType](#)  
[anpAirplaneId](#)  
[anpCoeffType](#)  
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[quarterHourMinutes](#)  
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[string200](#)  
[string25](#)  
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[timeInModeBasisType](#)  
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[trainingFireFuelType](#)  
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[wingType](#)  
[yesNoType](#)

element **activityProfile**

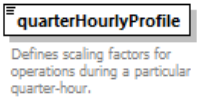


properties	content complex					
children	<a href="#">quarterHourlyProfile</a> <a href="#">dailyProfile</a> <a href="#">monthlyProfile</a>					
used by	element <a href="#">activityProfileSet</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">name</a>	<a href="#">string100</a>	required			
annotation	documentation Supports legacy EDMS studies relating to content combinations of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES.					


#### attribute [activityProfile/@name](#)

type	<a href="#">string100</a>
properties	use required
facets	Kind Value Annotation minLength 0 maxLength 100


#### element [activityProfile/quarterHourlyProfile](#)

diagram	
type	<a href="#">string100</a>
properties	content simple
used by	element <a href="#">quarterHourlyProfileSet</a>
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Defines scaling factors for operations during a particular quarter-hour.

#### element [activityProfile/dailyProfile](#)

diagram	
type	<a href="#">string100</a>
properties	content simple
used by	element <a href="#">dailyProfileSet</a>
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Defines scaling factors for operations on a particular day.

#### element [activityProfile/monthlyProfile](#)

diagram	
type	<a href="#">string100</a>
properties	content simple
used by	element <a href="#">monthlyProfileSet</a>
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Defines scaling factors for operations during a particular month.

element **activityProfileSet**

diagram	<p>activityProfileSet</p> <p>Supports the definition and use of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES variation of operations.</p> <p>attributes</p> <p>dummy</p> <p>activityProfile</p> <p>0..∞</p> <p>Supports legacy EDMS studies relating to content combinations of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES.</p>												
properties	content complex												
children	<a href="#">activityProfile</a>												
used by	element <a href="#">operationalProfileSet</a> complexType <a href="#">airportLayoutType</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Supports the definition and use of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES variation of operations.												

attribute **activityProfileSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **airportCapacity**

diagram	<p>airportCapacity</p> <p>Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.</p> <p>attributes</p> <p>dummy</p> <p>capacityPoint</p> <p>0..3</p> <p>Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.</p>												
properties	content complex												
children	<a href="#">capacityPoint</a>												
used by	element <a href="#">airportConfig</a> complexTypes <a href="#">airportLayoutType</a> <a href="#">scenarioAirportLayoutType</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.												

attribute **airportCapacity/@dummy**

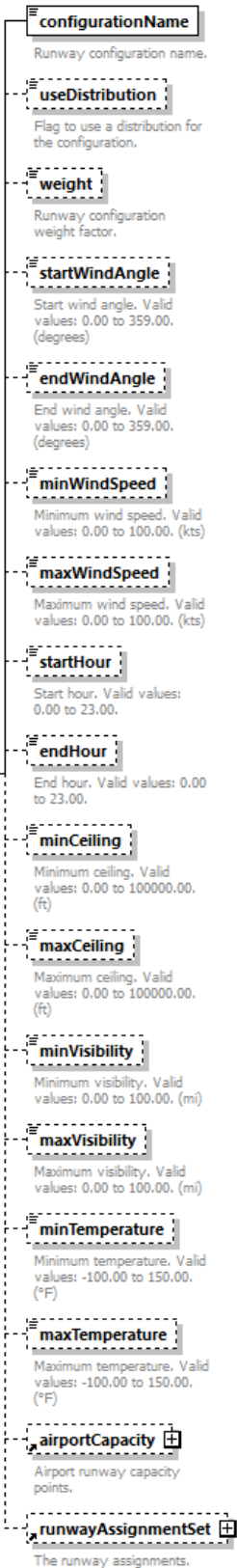
type	<b>xs:int</b>
properties	use optional

element **airportConfig**

diagram	
---------	--

**airportConfig**

Supports legacy EDMS studies relating to content contained in the RUNWAY\_CONFIGURATIONS table. This element supports the definition of airports and their runway configurations for a given scenario layout. Airports operate under different configurations (the pattern of aircraft arrivals and departures on specific runways) over the course of a year depending on the weather, capacity, and noise abatement issues.




properties	content complex
children	<a href="#">configurationName</a> <a href="#">useDistribution</a> <a href="#">weight</a> <a href="#">startWindAngle</a> <a href="#">endWindAngle</a> <a href="#">minWindSpeed</a> <a href="#">maxWindSpeed</a> <a href="#">startHour</a> <a href="#">endHour</a> <a href="#">minCeiling</a> <a href="#">maxCeiling</a> <a href="#">minVisibility</a> <a href="#">maxVisibility</a> <a href="#">minTemperature</a> <a href="#">maxTemperature</a> <a href="#">airportCapacity</a> <a href="#">runwayAssignmentSet</a>
used by	element <a href="#">airportConfigSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airports and their runway configurations for a given scenario layout. Airports operate under different configurations (the pattern of aircraft arrivals and departures on specific runways) over the course of a year depending on the weather, capacity, and noise abatement issues.

element **airportConfig/configurationName**

diagram	 Runway configuration name.
type	<b>string100</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Runway configuration name.

element **airportConfig/useDistribution**

diagram	 Flag to use a distribution for the configuration.
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Flag to use a distribution for the configuration.


element **airportConfig/weight**

diagram	 Runway configuration weight factor.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Runway configuration weight factor.

element **airportConfig/startWindAngle**

diagram	 Start wind angle. Valid values: 0.00 to 359.00. (degrees)
type	<b>int0to360</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 360
annotation	documentation Start wind angle. Valid values: 0.00 to 359.00. (degrees)

element **airportConfig/endWindAngle**

diagram	 End wind angle. Valid values: 0.00 to 359.00. (degrees)
type	<b>int0to360</b>
properties	minOcc 0 maxOcc 1



	content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 360
annotation	documentation End wind angle. Valid values: 0.00 to 359.00. (degrees)

element **airportConfig/minWindSpeed**

diagram	
type	<b><u>doubleExclusive100</u></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Minimum wind speed. Valid values: 0.00 to 100.00. (kts)

element **airportConfig/maxWindSpeed**

diagram	
type	<b><u>doubleExclusive100</u></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Maximum wind speed. Valid values: 0.00 to 100.00. (kts)

element **airportConfig/startHour**

diagram	
type	<b><u>doubleInclusive24</u></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 24
annotation	documentation Start hour. Valid values: 0.00 to 23.00.

element **airportConfig/endHour**

diagram	
type	<b><u>doubleInclusive24</u></b>
properties	minOcc 0 maxOcc 1 content simple

facets	Kind Value Annotation minInclusive 0 maxInclusive 24
annotation	documentation End hour. Valid values: 0.00 to 23.00.

element **airportConfig/minCeiling**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Minimum ceiling. Valid values: 0.00 to 100000.00. (ft)

element **airportConfig/maxCeiling**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum ceiling. Valid values: 0.00 to 100000.00. (ft)

element **airportConfig/minVisibility**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Minimum visibility. Valid values: 0.00 to 100.00. (mi)

element **airportConfig/maxVisibility**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum visibility. Valid values: 0.00 to 100.00. (mi)

element **airportConfig/minTemperature**

diagram	
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Minimum temperature. Valid values: -100.00 to 150.00. (°F)

element **airportConfig/maxTemperature**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum temperature. Valid values: -100.00 to 150.00. (°F)

element **airportConfigSet**

diagram	
properties	content complex
children	<a href="#">airportConfig</a>
used by	complexType <a href="#">airportLayoutType</a> <a href="#">scenarioAirportLayoutType</a>
annotation	documentation  Contains one or more airportConfig elements.

element **airportLayoutSet**

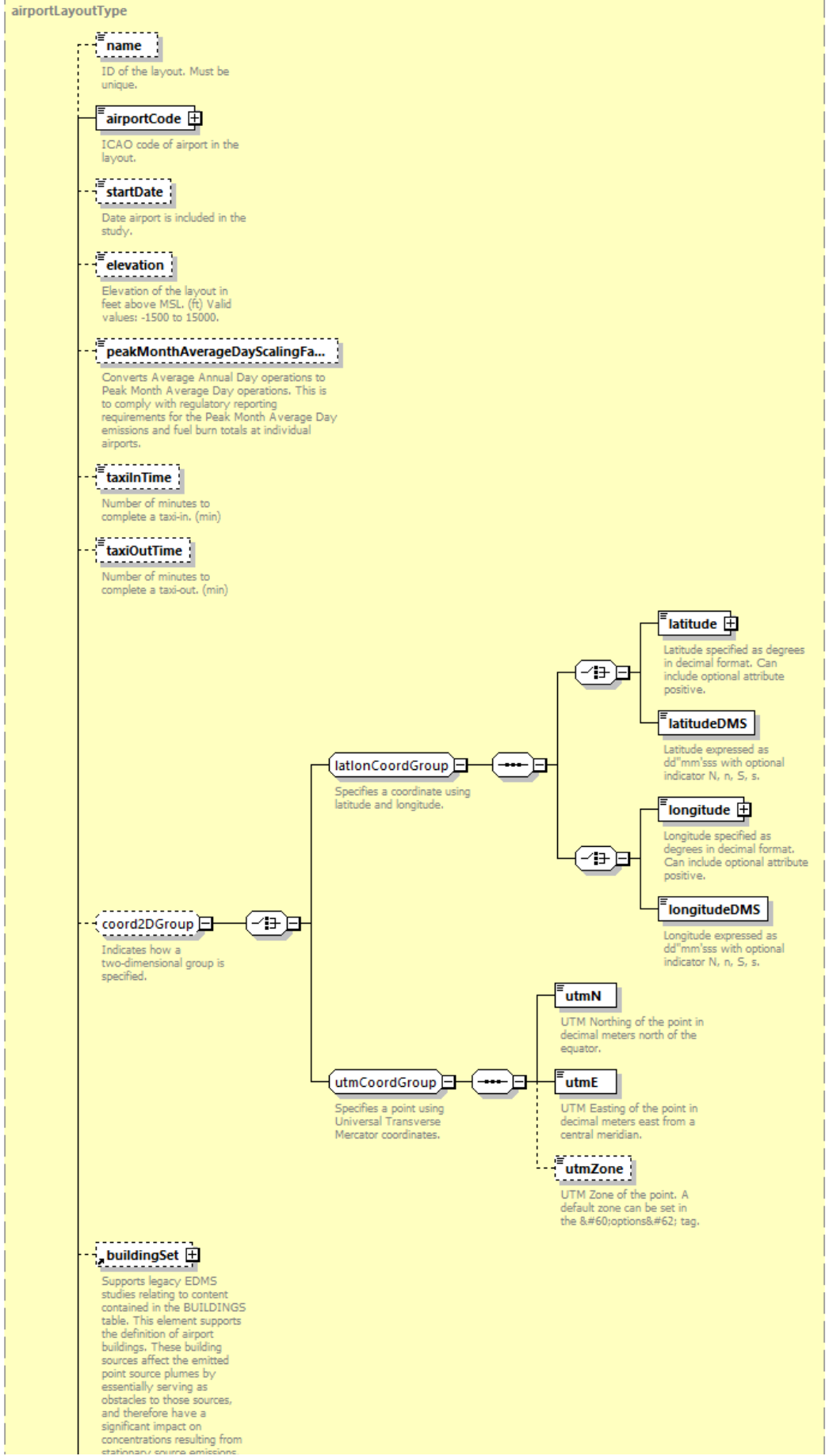
diagram													
properties	content complex												
children	<a href="#">airportLayout</a>												
used by	elements <a href="#">AsifXml study</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Contains layouts for ASIF partial import into an existing study.												

attribute **airportLayoutSet/@dummy**

type	<b>xs:int</b>
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element **airportLayoutSet/airportLayout**

diagram



## airportLayout

1..∞

Contains information about the available layout of each airport in the study.

Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.

### parkingFacilitySet

Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.

### stationarySourceSet

Container of stationary sources contributing emissions.

### gateSet

Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modeling, which includes all dispersion analyses.

### roadwaySet

Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.

### taxiwaySet

Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.

### runwaySet

Container for runways.

### taxipathSet

Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.

### trackSet

A set of flight tracks.

### airportConfigSet

Contains one or more airportConfig elements.

### airportCapacity

Supports legacy EDMS studies relating to content contained in the RUNWAY\_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.

### quarterHourlyProfileSet

Supports the definition and use of

	<p>QUARTER_HOURLY_PROFILE S for the quarter hourly variation of operations.</p> <p><b>dailyProfileSet</b> </p> <p>Supports the definition and use of DAILY_PROFILES for the daily variation of operations.</p> <p><b>monthlyProfileSet</b> </p> <p>Supports the definition and use of MONTHLY_PROFILES for the monthly variation of operations.</p> <p><b>activityProfileSet</b> </p> <p>Supports the definition and use of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES variation of operations.</p>
type	<b>airportLayoutType</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>name</b> <b>airportCode</b> <b>startDate</b> <b>elevation</b> <b>peakMonthAverageDayScalingFactor</b> <b>taxiInTime</b> <b>taxiOutTime</b> <b>latitude</b> <b>latitudeDMS</b> <b>longitude</b> <b>longitudeDMS</b> <b>utmN</b> <b>utmE</b> <b>utmZone</b> <b>buildingSet</b> <b>parkingFacilitySet</b> <b>stationarySourceSet</b> <b>gateSet</b> <b>roadwaySet</b> <b>taxiwaySet</b> <b>runwaySet</b> <b>taxipathSet</b> <b>trackSet</b> <b>airportConfigSet</b> <b>airportCapacity</b> <b>quarterHourlyProfileSet</b> <b>dailyProfileSet</b> <b>monthlyProfileSet</b> <b>activityProfileSet</b>
annotation	documentation Contains information about the available layout of each airport in the study.

element **airportWeather**

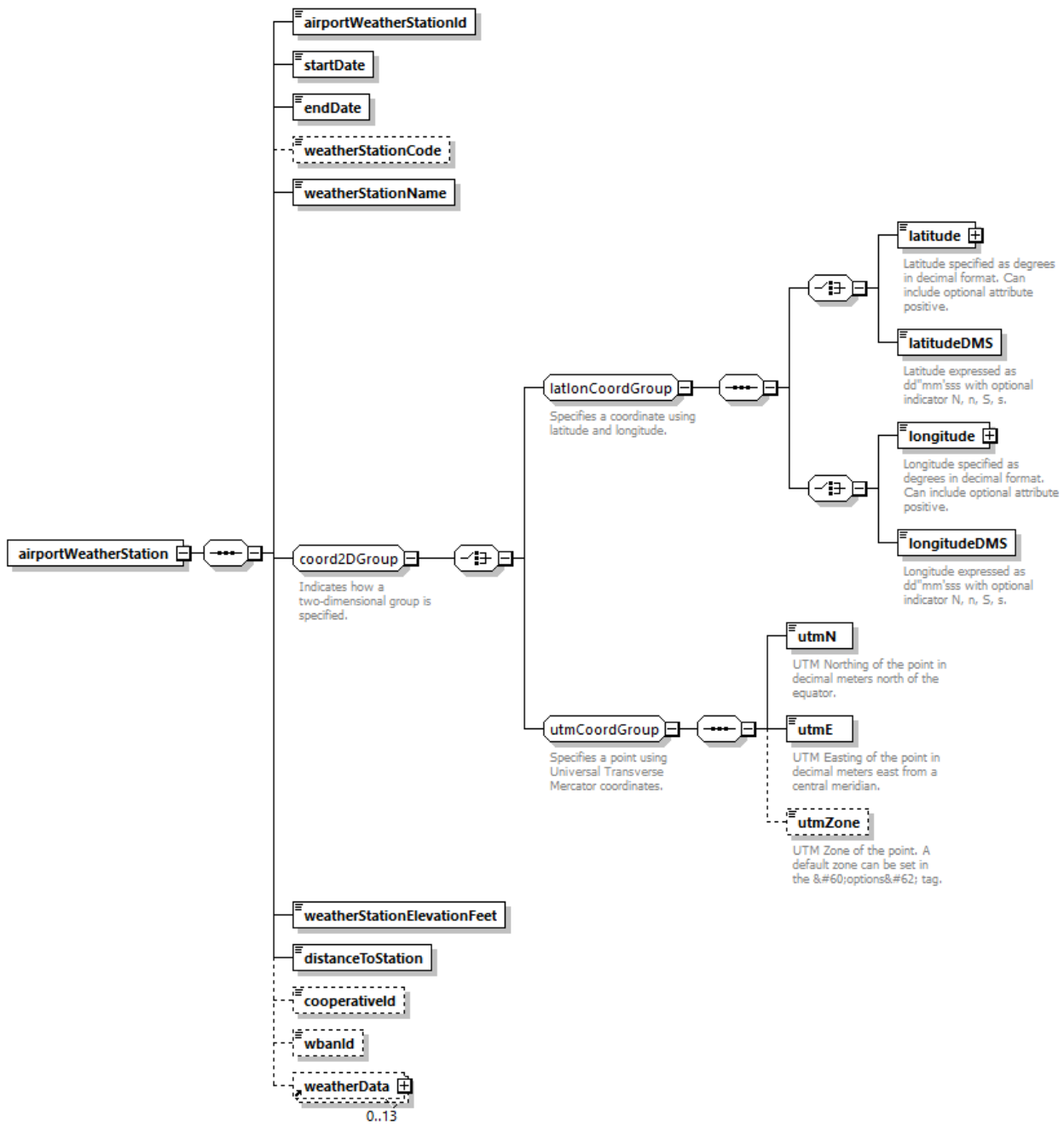
diagram	
properties	content complex
children	<b>airportWeatherStationId</b> <b>airportWeatherStation</b>
used by	complexType <b>airport</b>

element **airportWeather/airportWeatherStationId**

diagram	
type	<b>xs:int</b>
properties	content simple

element **airportWeatherStation**

diagram	
---------	--



properties	content complex
children	<b>airportWeatherStationId</b> <b>startDate</b> <b>endDate</b> <b>weatherStationCode</b> <b>weatherStationName</b> <b>latitude</b> <b>latitudeDMS</b> <b>longitude</b> <b>longitudeDMS</b> <b>utmN</b> <b>utmE</b> <b>utmZone</b> <b>weatherStationElevationFeet</b> <b>distanceToStation</b> <b>cooperativeld</b> <b>wband</b> <b>weatherData</b>
used by	element <b>airportWeather</b>

element **airportWeatherStation/airportWeatherStationId**

diagram	<b>airportWeatherStationId</b>
type	<b>xs:int</b>
properties	content simple

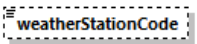
element **airportWeatherStation/startDate**

diagram	<b>startDate</b>
type	<b>xs:date</b>
properties	content simple

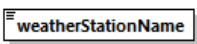
element **airportWeatherStation/endDate**

diagram	
type	<b>xs:date</b>
properties	content simple

element **airportWeatherStation/weatherStationCode**

diagram	
type	<b>string5</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 5


element **airportWeatherStation/weatherStationName**

diagram	
type	<b>string25</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 25

element **airportWeatherStation/weatherStationElevationFeet**

diagram	
type	<b>xs:int</b>
properties	content simple

element **airportWeatherStation/distanceToStation**

diagram	
type	<b>xs:double</b>
properties	content simple

element **airportWeatherStation/cooperativeld**

diagram	
type	<b>string6</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 6

element **airportWeatherStation/wbandl**

diagram	
type	<b>string5</b>
properties	minOcc 0 maxOcc 1



	content simple
facets	Kind Value Annotation minLength 0 maxLength 5

#### element **annualization**

diagram	
properties	content complex
children	<a href="#">name</a> <a href="#">annualizationGroup</a>
used by	elements <a href="#">AsifXml scenario</a>
annotation	documentation Contains annualizations for ASIF partial import into an existing study.

#### element **annualization/name**

diagram	
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Name of annualization.


#### element **annualizationCase**

diagram	
properties	content complex
children	<a href="#">name</a> <a href="#">weight</a> <a href="#">scaleFactor</a>
used by	group <a href="#">annualizationGroupCase</a>
annotation	documentation Collection of study cases whose results are weighted in the scenario annualization rollup.

#### element **annualizationCase/name**

diagram	
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of the case.

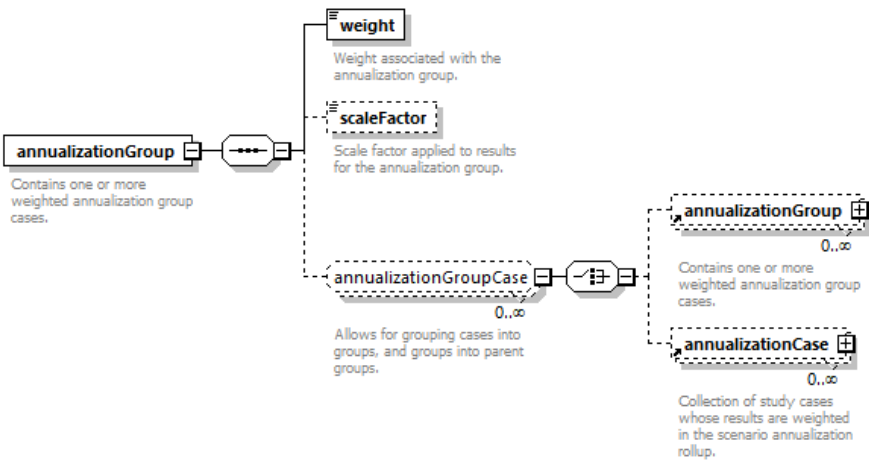
element **annualizationCase/weight**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Weight associated with the case.


element **annualizationCase/scaleFactor**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Scale factor applied to results for the case.

element **annualizationGroup**

diagram	
properties	content complex
children	<a href="#">weight</a> <a href="#">scaleFactor</a> <a href="#">annualizationGroup</a> <a href="#">annualizationCase</a>
used by	element <a href="#">annualization</a> group <a href="#">annualizationGroupCase</a>
annotation	documentation Contains one or more weighted annualization group cases.

element **annualizationGroup/weight**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Weight associated with the annualization group.

element **annualizationGroup/scaleFactor**

diagram	
---------	--

	<div style="border: 1px dashed black; padding: 2px; display: inline-block;"> <b>scaleFactor</b> </div> Scale factor applied to results for the annualization group.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Scale factor applied to results for the annualization group.

element **areaStationarySource**

diagram	
properties	content complex
children	<a href="#">pointCoord</a> <a href="#">polygonCoords</a> <a href="#">baseElevation</a> <a href="#">releaseHeight</a> <a href="#">sigmaZ</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Specifies the area in space occupied by a stationary source of emissions.

element **areaStationarySource/baseElevation**

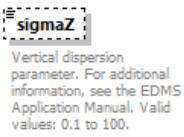
diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>baseElevation</b> </div> Elevation in MSL of area, valid values -500 to 5000 (m)
type	<b>xs:double</b>
properties	content simple
annotation	documentation Elevation in MSL of area, valid values -500 to 5000 (m)

element **areaStationarySource/releaseHeight**

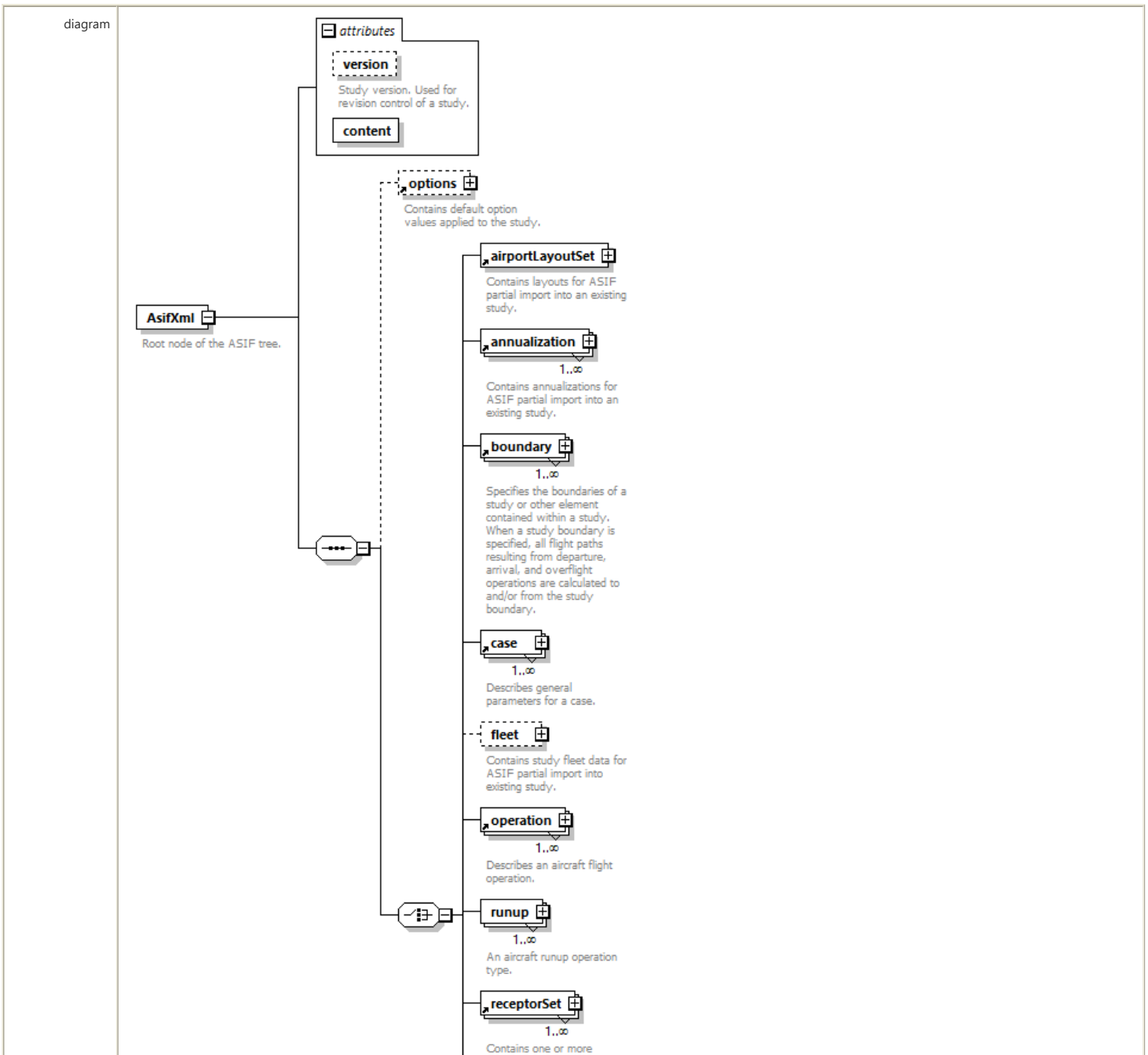
diagram	<div style="border: 1px dashed black; padding: 2px; display: inline-block;"> <b>releaseHeight</b> </div> Height at which emissions are released into the atmosphere. Valid values: 0 to 100 (m)
type	<b>doubleInclusive100</b>
properties	minOcc 0 maxOcc 1 content simple default 0
facets	Kind Value Annotation minInclusive 0

	maxInclusive 100
annotation	documentation Height at which emissions are released into the atmosphere. Valid values: 0 to 100 (m)

element **areaStationarySource/sigmaZ**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: 0.1 to 100.

element **AsifXml**



	<p>receptor sets at various locations.</p> <p><b>scenario</b> 1..∞ Encapsulates a scenario - such as Baseline or Alternative</p> <p><b>study</b> Contains specific information about a study.</p> <p><b>trackOpSet</b> 1..∞ Lists tracks and associated operations.</p> <p><b>userGroundSupportEquipmentSet</b> Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.</p> <p><b>stationarySourceSet</b> Container of stationary sources contributing emissions.</p> <p><b>operationalProfileSet</b></p>																		
properties	content complex																		
children	<a href="#">options</a> <a href="#">airportLayoutSet</a> <a href="#">annualization</a> <a href="#">boundary</a> <a href="#">case</a> <a href="#">fleet</a> <a href="#">operation</a> <a href="#">runup</a> <a href="#">receptorSet</a> <a href="#">scenario</a> <a href="#">study</a> <a href="#">trackOpSet</a> <a href="#">userGroundSupportEquipmentSet</a> <a href="#">stationarySourceSet</a> <a href="#">operationalProfileSet</a>																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">version</a></td> <td><a href="#">string16</a></td> <td>optional</td> <td></td> <td></td> <td>documentation Study version. Used for revision control of a study.</td> </tr> <tr> <td><a href="#">content</a></td> <td><b>derived by: xs:string</b></td> <td>required</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">version</a>	<a href="#">string16</a>	optional			documentation Study version. Used for revision control of a study.	<a href="#">content</a>	<b>derived by: xs:string</b>	required			
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">version</a>	<a href="#">string16</a>	optional			documentation Study version. Used for revision control of a study.														
<a href="#">content</a>	<b>derived by: xs:string</b>	required																	
annotation	documentation Root node of the ASIF tree.																		

attribute **AsifXml/@version**

type	<a href="#">string16</a>									
properties	use optional									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minLength</td> <td>0</td> <td></td> </tr> <tr> <td>maxLength</td> <td>16</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	minLength	0		maxLength	16	
Kind	Value	Annotation								
minLength	0									
maxLength	16									
annotation	documentation Study version. Used for revision control of a study.									

attribute **AsifXml/@content**

type	restriction of <a href="#">xs:string</a>																																										
properties	use required																																										
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>enumeration</td> <td>airportLayoutSet</td> <td></td> </tr> <tr> <td>enumeration</td> <td>annualization</td> <td></td> </tr> <tr> <td>enumeration</td> <td>case</td> <td></td> </tr> <tr> <td>enumeration</td> <td>fleet</td> <td></td> </tr> <tr> <td>enumeration</td> <td>receptorSets</td> <td></td> </tr> <tr> <td>enumeration</td> <td>scenario</td> <td></td> </tr> <tr> <td>enumeration</td> <td>study</td> <td></td> </tr> <tr> <td>enumeration</td> <td>boundary</td> <td></td> </tr> <tr> <td>enumeration</td> <td>trackOpSet</td> <td></td> </tr> <tr> <td>enumeration</td> <td>runup</td> <td></td> </tr> <tr> <td>enumeration</td> <td>userGroundSupportEquipmentSet</td> <td></td> </tr> <tr> <td>enumeration</td> <td>stationarySourceSet</td> <td></td> </tr> <tr> <td>enumeration</td> <td>operationalProfileSet</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	enumeration	airportLayoutSet		enumeration	annualization		enumeration	case		enumeration	fleet		enumeration	receptorSets		enumeration	scenario		enumeration	study		enumeration	boundary		enumeration	trackOpSet		enumeration	runup		enumeration	userGroundSupportEquipmentSet		enumeration	stationarySourceSet		enumeration	operationalProfileSet	
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element **AsifXml/fleet**

diagram	
---------	--

**fleet**  
Contains study fleet data for ASIF partial import into existing study.

**auxiliaryPowerUnit**

0..∞

Describes a custom auxiliary power unit (APU). These are typically on-board generators providing power to a parked aircraft.

**airframe**

0..∞

Supports the definition of custom airframes.

**engine**

0..∞

User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can then be used within a user-defined aircraft.

**engineMod**

0..∞

User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.

**anpNoiseGroup**

0..∞

This element contains the three spectral class references for a given aircraft noise group with the corresponding thrust setting type and model type.

**anpAirplane**

0..∞

Creates a new ANP aircraft.

**anpFlapsSet**

0..∞

Flap settings for an ANP aircraft type.

**anpThrustSet**

0..∞

Specifies a set of thrust records for an ANP aircraft.

**anpProfileSet**

0..∞

The profile set for an ANP aircraft.

**anpHeloNoiseGroup**

0..∞

This element contains the three spectral class references for a given helicopter noise group with the corresponding thrust setting type and model type.

**anpHelicopter**

0..∞

Creates a new ANP helicopter.

**anpHeloDirectivitySet**

0..∞

A set of helicopter directivities.

**anpHeloProfileSet**

0..∞

A profile set for an ANP helicopter.

**badaAirplane**

0..∞

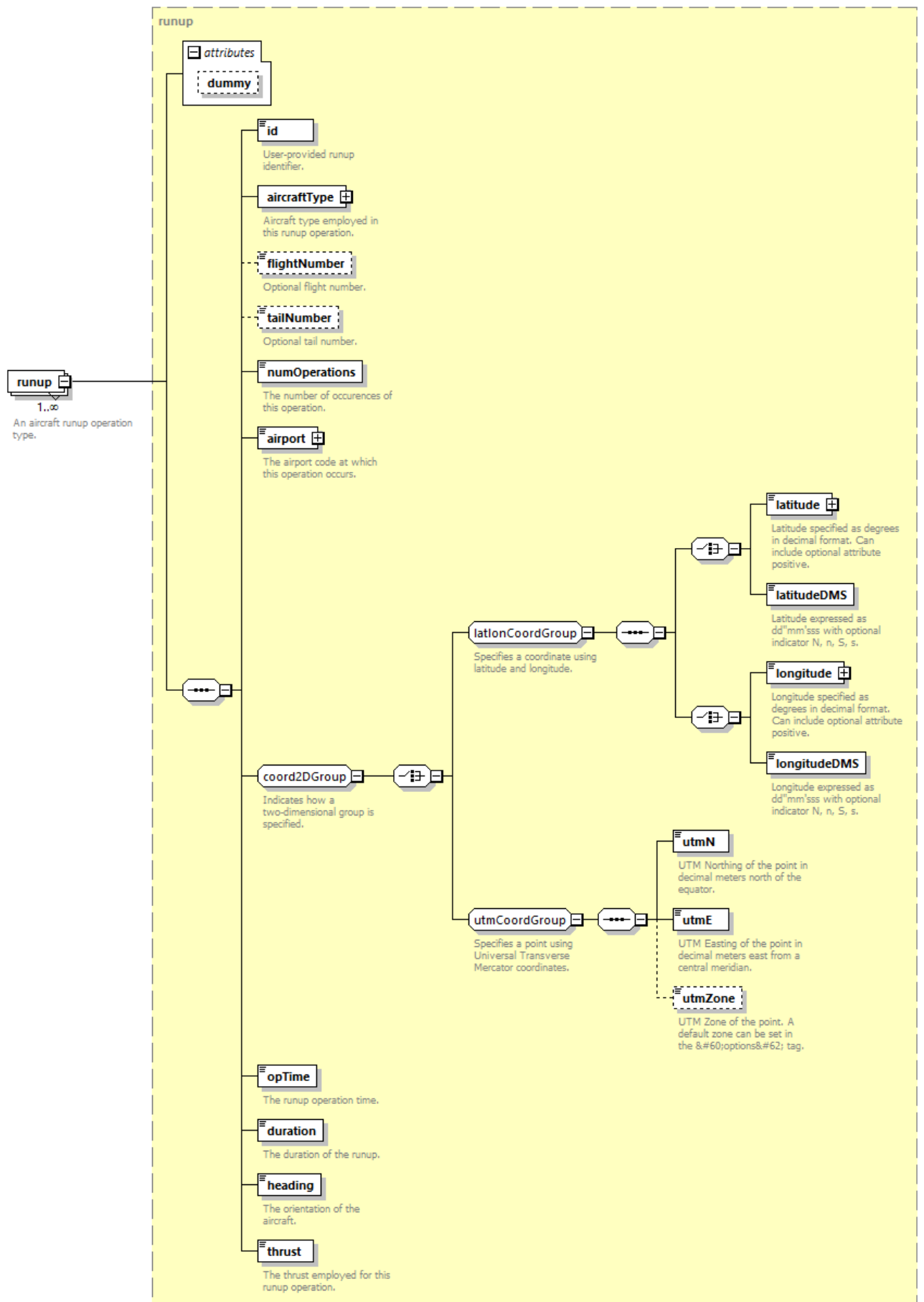
Describes a new



type	<b>fleet</b>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">auxiliaryPowerUnit</a> <a href="#">airframe</a> <a href="#">engine</a> <a href="#">engineMod</a> <a href="#">anpNoiseGroup</a> <a href="#">anpAirplane</a> <a href="#">anpFlapsSet</a> <a href="#">anpThrustSet</a> <a href="#">anpProfileSet</a> <a href="#">anpHeloNoiseGroup</a> <a href="#">anpHelicopter</a> <a href="#">anpHeloDirectivitySet</a> <a href="#">anpHeloProfileSet</a> <a href="#">badaAirplane</a> <a href="#">badaAltitudeDistributionSet</a> <a href="#">badaDefaultAltitudeDistributionSet</a> <a href="#">badaProfileSet</a> <a href="#">badaConfigSet</a> <a href="#">badaFuel</a> <a href="#">badaThrust</a> <a href="#">aircraft</a> <a href="#">energyShare</a>
annotation	documentation Contains study fleet data for ASIF partial import into existing study.

element **AsifXml/runup**

diagram	
---------	--



type **runup**

properties minOcc 1  
maxOcc unbounded



	content complex												
children	<b>id aircraftType flightNumber tailNumber numOperations airport latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone opTime duration heading thrust</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation An aircraft runup operation type.												

#### element **backbone**

diagram	
properties	content complex
children	<b><a href="#">dispersionWeight</a> <a href="#">backboneNodes</a></b>
used by	element <b><a href="#">track</a></b>
annotation	documentation Represents the centerline of a set of dispersed tracks.

#### element **backboneNode**

diagram	
properties	content complex
children	<b><a href="#">trackNode</a> <a href="#">halfwidth</a></b>
used by	element <b><a href="#">backboneNodes</a></b>
annotation	documentation A 3D node that is part of a backbone.

#### element **backboneNode/halfwidth**

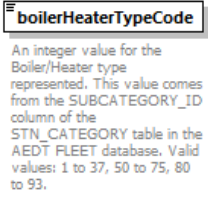
diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Halfwidth in nautical miles. (nmi)

#### element **backboneNodes**

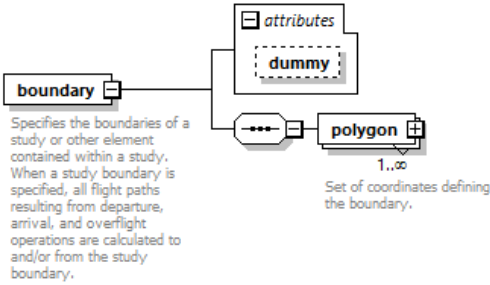
diagram	
properties	content complex
children	<b><a href="#">backboneNode</a></b>

used by	element <a href="#">backbone</a>
annotation	documentation The set of 3D nodes for the backbone.

element **boilerHeaterTypeCode**

diagram	
type	union of (restriction of <b>xs:integer</b> , restriction of <b>xs:integer</b> , restriction of <b>xs:integer</b> )
properties	content simple
used by	element <a href="#">categoryBoilerHeater</a>
annotation	documentation An integer value for the Boiler/Heater type represented. This value comes from the SUBCATEGORY_ID column of the STN_CATEGORY table in the AEDT FLEET database. Valid values: 1 to 37, 50 to 75, 80 to 93.

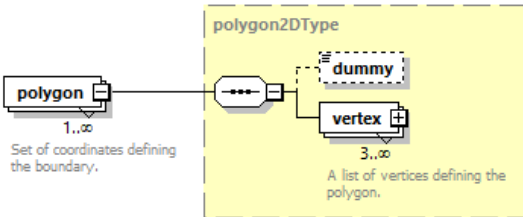
element **boundary**

diagram													
properties	content complex												
children	<a href="#">polygon</a>												
used by	elements <a href="#">AsifXml study</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Specifies the boundaries of a study or other element contained within a study. When a study boundary is specified, all flight paths resulting from departure, arrival, and overflight operations are calculated to and/or from the study boundary.												

attribute **boundary/@dummy**

type	<b>xs:int</b>
properties	use optional

element **boundary/polygon**

diagram	
type	<a href="#">polygon2DType</a>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">dummy</a> <a href="#">vertex</a>

annotation	documentation Set of coordinates defining the boundary.
------------	--

### element **building**

diagram	<p>Supports legacy EDMS studies relating to content contained in the BUILDINGS table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.</p>
properties	content complex
children	<a href="#">name</a> <a href="#">elevation</a> <a href="#">height</a> <a href="#">releaseHeight</a> <a href="#">pointCoord</a> <a href="#">polygonCoords</a>
used by	element <a href="#">buildingSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the BUILDINGS table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.

### element **building/name**

diagram	
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Name of the building.

### element **building/elevation**

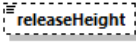
diagram	
type	<a href="#">xs:double</a>
properties	content simple
annotation	documentation Elevation of building. Valid values: -500 to 5000. (m)

### element **building/height**

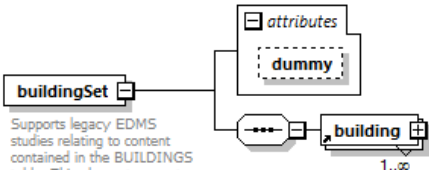
diagram	
---------	--

type	<b>xs:double</b>
properties	content simple
annotation	documentation Height of building. Valid values: 0 to 100 (m)

element **building/releaseHeight**

diagram	 <p>releaseHeight</p> <p>Height at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Height at which emissions are released into the atmosphere. Valid values 0 to 100 (m)

element **buildingSet**

diagram	 <p>buildingSet</p> <p>Supports legacy EDMS studies relating to content contained in the BUILDINGS table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.</p> <p>attributes</p> <p>dummy</p> <p>building</p> <p>1..∞</p> <p>Supports legacy EDMS studies relating to content contained in the BUILDINGS table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.</p>												
properties	content complex												
children	<b>building</b>												
used by	complexType <a href="#">airportLayoutType</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>dummy</td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	dummy	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
dummy	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the BUILDINGS table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.												

attribute **buildingSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **capacityPoint**

diagram	
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	<p><b>capacityPoint</b> Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.</p> <p><b>arrivalsPerHour</b> Number of arrivals per hour. Valid values: 0.00 to 400.00. (operations per hour)</p> <p><b>departuresPerHour</b> Number of departures per hour. Valid values: 0.00 to 400.00. (operations per hour)</p>
properties	content complex
children	<a href="#">arrivalsPerHour</a> <a href="#">departuresPerHour</a>
used by	element <a href="#">airportCapacity</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.

element **capacityPoint/arrivalsPerHour**

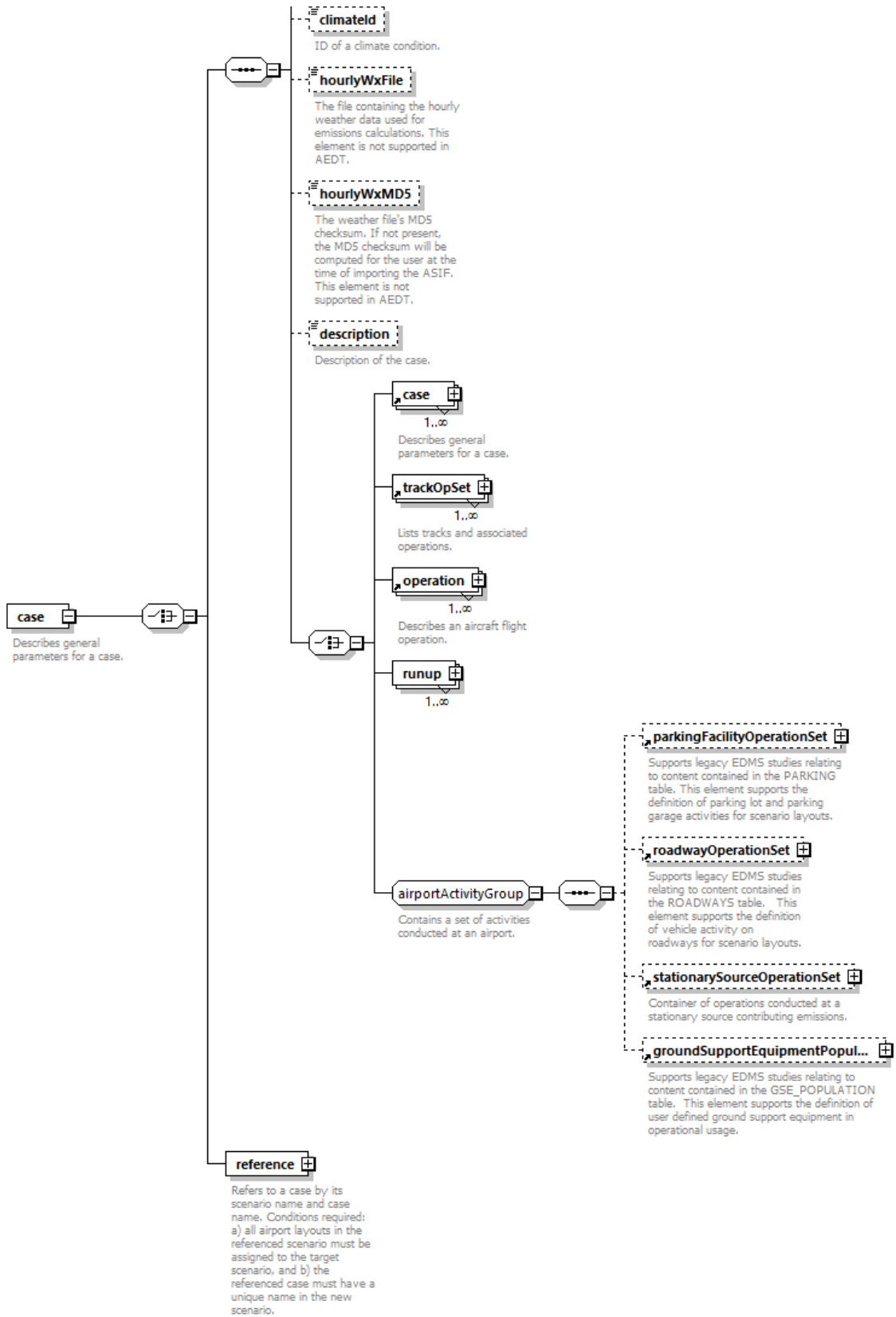
diagram	<p><b>arrivalsPerHour</b> Number of arrivals per hour. Valid values: 0.00 to 400.00. (operations per hour)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Number of arrivals per hour. Valid values: 0.00 to 400.00. (operations per hour)

element **capacityPoint/departuresPerHour**

diagram	<p><b>departuresPerHour</b> Number of departures per hour. Valid values: 0.00 to 400.00. (operations per hour)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Number of departures per hour. Valid values: 0.00 to 400.00. (operations per hour)

element **case**

diagram	<p><b>caseld</b> Case ID.</p> <p><b>name</b> The name of the case (must be unique within the scenario).</p> <p><b>source</b></p> <p><b>startTime</b> Case's start time. If not defined, the value specified in the scenario element will be used. Must match the value for startTime for the scenario. Accepts dateTime string.</p> <p><b>duration</b> Case's duration. If not defined, the value specified in the scenario element will be used. Must match the value for duration for the scenario. For AEDT this is restricted to 24 hours (1 day). All cases within a scenario must have the same duration as the scenario. (hr).</p>
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


properties	content complex
children	<a href="#">caselId</a> <a href="#">name</a> <a href="#">source</a> <a href="#">startTime</a> <a href="#">duration</a> <a href="#">climatlId</a> <a href="#">hourlyWxFile</a> <a href="#">hourlyWxMD5</a> <a href="#">description</a> <a href="#">case</a> <a href="#">trackOpSet</a> <a href="#">operation</a> <a href="#">runup</a> <a href="#">parkingFacilityOperationSet</a> <a href="#">roadwayOperationSet</a> <a href="#">stationarySourceOperationSet</a> <a href="#">groundSupportEquipmentPopulationOperationSet</a> <a href="#">reference</a>
used by	elements <a href="#">AsifXml</a> <a href="#">case</a> <a href="#">caseSet</a>
annotation	documentation Describes general parameters for a case.


element **case/caselId**

diagram	 Case ID.
type	<b>xs:int</b>
properties	content simple
annotation	documentation Case ID.


#### element **case/name**

diagram	 The name of the case (must be unique within the scenario).
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The name of the case (must be unique within the scenario).

#### element **case/source**

diagram	
type	<b>emissionsSourceType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration Container enumeration Aircraft enumeration GSE Population enumeration Parking Facilities enumeration Roadways enumeration Stationary Sources

#### element **case/startTime**

diagram	 Case's start time. If not defined, the value specified in the scenario element will be used. Must match the value for startTime for the scenario. Accepts dateTime string.
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Case's start time. If not defined, the value specified in the scenario element will be used. Must match the value for startTime for the scenario. Accepts dateTime string.

#### element **case/duration**

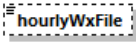
diagram	 Case's duration. If not defined, the value specified in the scenario element will be used. Must match the value for duration for the scenario. For AEDT this is restricted to 24 hours (1 day). All cases within a scenario must have the same duration as the scenario. (hr).
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type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Case's duration. If not defined, the value specified in the scenario element will be used. Must match the value for duration for the scenario. For AEDT this is restricted to 24 hours (1 day). All cases within a scenario must have the same duration as the scenario. (hr).

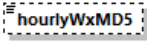
#### element **case/climateId**

diagram	 ID of a climate condition.
type	<b>string8</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation ID of a climate condition.

#### element **case/hourlyWxFile**

diagram	 The file containing the hourly weather data used for emissions calculations. This element is not supported in AEDT.
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The file containing the hourly weather data used for emissions calculations. This element is not supported in AEDT.

#### element **case/hourlyWxMD5**

diagram	 The weather file's MD5 checksum. If not present, the MD5 checksum will be computed for the user at the time of importing the ASIF. This element is not supported in AEDT.
type	<b>string16</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation The weather file's MD5 checksum. If not present, the MD5 checksum will be computed for the user at the time of importing the ASIF. This element is not supported in AEDT.

#### element **case/description**

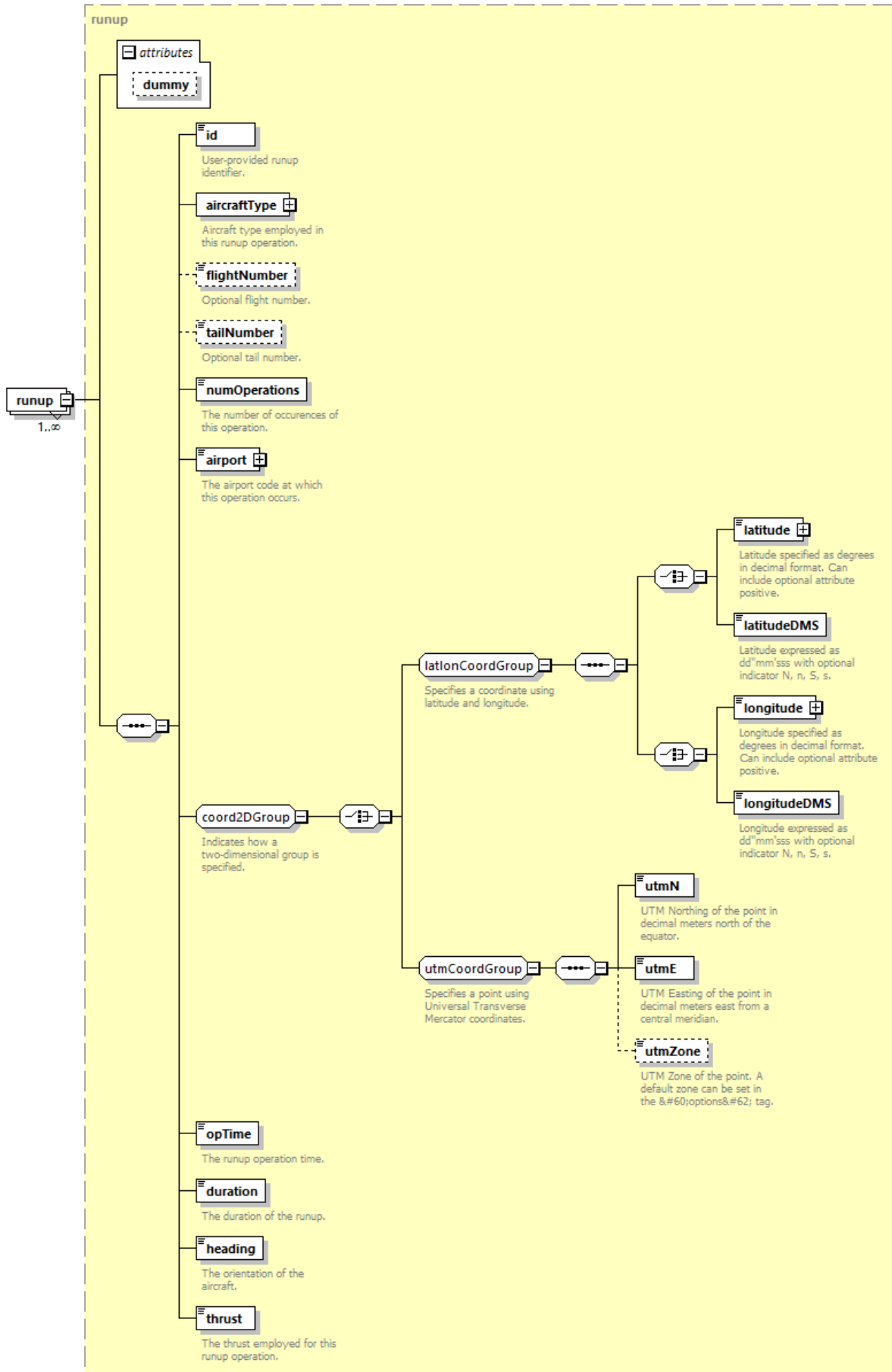
diagram	 Description of the case.
type	<b>string255</b>



properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of the case.

element **case/runup**

diagram	
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type	<b>runup</b>
properties	minOcc 1 maxOcc unbounded

	content complex					
children	<b><a href="#">id</a></b> <b><a href="#">aircraftType</a></b> <b><a href="#">flightNumber</a></b> <b><a href="#">tailNumber</a></b> <b><a href="#">numOperations</a></b> <b><a href="#">airport</a></b> <b><a href="#">latitude</a></b> <b><a href="#">latitudeDMS</a></b> <b><a href="#">longitude</a></b> <b><a href="#">longitudeDMS</a></b> <b><a href="#">utmN</a></b> <b><a href="#">utmE</a></b> <b><a href="#">utmZone</a></b> <b><a href="#">opTime</a></b> <b><a href="#">duration</a></b> <b><a href="#">heading</a></b> <b><a href="#">thrust</a></b>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">dummy</a>	<b>xs:int</b>	optional			

#### element **case/reference**

diagram	<p>reference</p> <p>Refers to a case by its scenario name and case name. Conditions required: a) all airport layouts in the referenced scenario must be assigned to the target scenario, and b) the referenced case must have a unique name in the new scenario.</p> <p>refScenario</p> <p>Scenario under which an existing case appears.</p> <p>refCase</p> <p>Existing case that appears under the refScenario.</p>
properties	content complex
children	<b><a href="#">refScenario</a></b> <b><a href="#">refCase</a></b>
annotation	documentation Refers to a case by its scenario name and case name. Conditions required: a) all airport layouts in the referenced scenario must be assigned to the target scenario, and b) the referenced case must have a unique name in the new scenario.

#### element **case/reference/refScenario**

diagram	<p>refScenario</p> <p>Scenario under which an existing case appears.</p>
type	<b><a href="#">string255</a></b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Scenario under which an existing case appears.

#### element **case/reference/refCase**

diagram	<p>refCase</p> <p>Existing case that appears under the refScenario.</p>
type	<b><a href="#">string255</a></b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Existing case that appears under the refScenario.

#### element **caseSet**

diagram	<p>caseSet</p> <p>Placeholder for one or more cases.</p> <p>attributes</p> <p>dummy</p> <p>case</p> <p>1..∞</p> <p>Describes general parameters for a case.</p>
properties	content complex
children	<b><a href="#">case</a></b>
used by	element <b><a href="#">scenario</a></b>

attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">dummy</a>	<b>xs:int</b>	optional			
annotation	documentation Placeholder for one or more cases.					

attribute **caseSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **categoryAircraftEngine**

diagram	
properties	content complex
children	<a href="#">engineCode</a> <a href="#">timePercentPower7</a> <a href="#">timePercentPower30</a> <a href="#">timePercentPower85</a> <a href="#">timePercentPower100</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes a category for the time an aircraft engine is at various power levels.


element **categoryAircraftEngine/engineCode**

diagram										
type	<a href="#">string255</a>									
properties	content simple									
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>minLength</td> <td>0</td> <td></td> </tr> <tr> <td>maxLength</td> <td>255</td> <td></td> </tr> </table>	Kind	Value	Annotation	minLength	0		maxLength	255	
Kind	Value	Annotation								
minLength	0									
maxLength	255									


element **categoryAircraftEngine/timePercentPower7**

diagram										
type	<a href="#">doubleExclusive1000</a>									
properties	content simple default 0									
facets	<table border="1"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>minInclusive</td> <td>0</td> <td></td> </tr> <tr> <td>maxExclusive</td> <td>1000</td> <td></td> </tr> </table>	Kind	Value	Annotation	minInclusive	0		maxExclusive	1000	
Kind	Value	Annotation								
minInclusive	0									
maxExclusive	1000									
annotation	documentation Time at which engine is operating at 7% (taxi) power. Valid values: 0 to 1000. (min)									


element **categoryAircraftEngine/timePercentPower30**

diagram	 <p>Time at which engine is operating at 30% (approach) power. Valid values: 0 to 1000. (min)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Time at which engine is operating at 30% (approach) power. Valid values: 0 to 1000. (min)

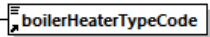


element **categoryAircraftEngine/timePercentPower85**

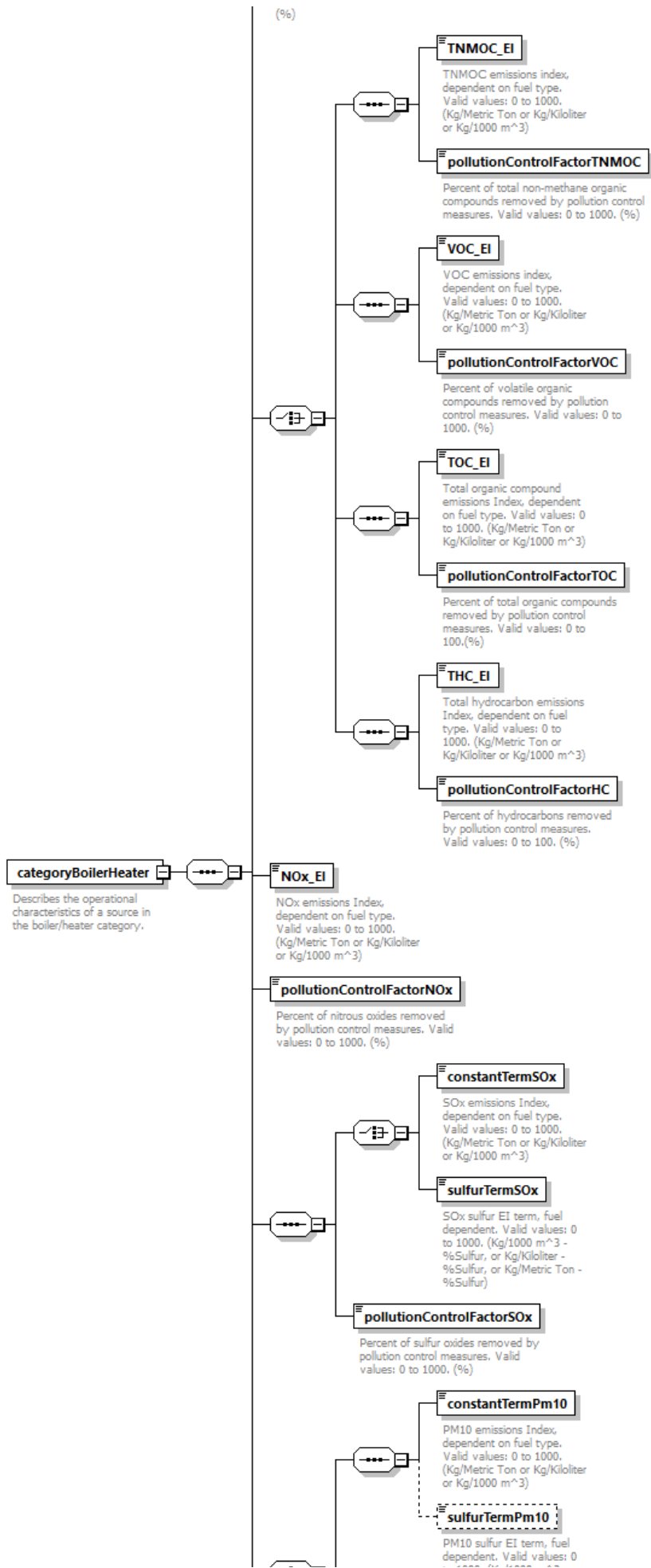
diagram	 <p>Time at which engine is operating at 85% (climbout) power. Valid values: 0 to 1000. (min)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Time at which engine is operating at 85% (climbout) power. Valid values: 0 to 1000. (min)

element **categoryAircraftEngine/timePercentPower100**

diagram	 <p>Time at which engine is operating at 100% (takeoff) power. Valid values: 0 to 1000. (min)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Time at which engine is operating at 100% (takeoff) power. Valid values: 0 to 1000. (min)

element **categoryBoilerHeater**

diagram	 <p>An integer value for the Boiler/Heater type represented. This value comes from the SUBCATEGORY_ID column of the STN_CATEGORY table in the AEDT FLEET database. Valid values: 1 to 37, 50 to 75, 80 to 93.</p>  <p>CO emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>  <p>Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000.</p>
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	<p>to 1000. (Kg/1000 m<sup>3</sup> - %Sulfur, or Kg/Kiloliter - %Sulfur, or Kg/Metric Ton - %Sulfur)</p> <p><b>ashTermPm10</b> PM10 ash term. Valid values: 0 to 1000.(Kg/Metric Ton - %Ash)</p> <p><b>fuelAshContent</b> Percent of fuel that is ash. Valid values: 0 to 1000. (%)</p> <p><b>pollutionControlFactorPM10</b> Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)</p> <p><b>pm25ToPm10Ratio</b> PM 2.5 to PM 10 ratio. Valid values: 0 to 1000. (dimensionless)</p> <p><b>fuelCalciumSulfurRatio</b> Ratio of calcium to sulfur within the fuel. Valid values: 0 to 1000. (dimensionless)</p> <p><b>fuelSulfurContent</b> Percent of fuel that is sulfur. Valid values 0 to 1000. (%)</p>
properties	content complex
children	<a href="#">boilerHeaterTypeCode CO EI</a> <a href="#">pollutionControlFactorCO TNMOC EI</a> <a href="#">pollutionControlFactorTNMOC VOC EI</a> <a href="#">pollutionControlFactorTOC THC EI</a> <a href="#">pollutionControlFactorHC NOx EI</a> <a href="#">pollutionControlFactorNOx constantTermSOx sulfurTermSOx</a> <a href="#">pollutionControlFactorSOx constantTermPm10 sulfurTermPm10 ashTermPm10 fuelAshContent</a> <a href="#">pollutionControlFactorPM10</a> <a href="#">pm25ToPm10Ratio</a> <a href="#">fuelCalciumSulfurRatio</a> <a href="#">fuelSulfurContent</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the boiler/heater category.

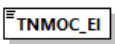
element **categoryBoilerHeater/CO\_EI**

diagram	<p><b>CO_EI</b> CO emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation CO emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryBoilerHeater/pollutionControlFactorCO**

diagram	<p><b>pollutionControlFactorCO</b> Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)

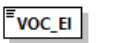
element **categoryBoilerHeater/TNMOC\_EI**

diagram	 <p>TNMOC emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation TNMOC emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryBoilerHeater/pollutionControlFactorTNMOC**

diagram	 <p>Percent of total non-methane organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of total non-methane organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryBoilerHeater/VOC\_EI**


diagram	 <p>VOC emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation VOC emissions index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )

element **categoryBoilerHeater/pollutionControlFactorVOC**

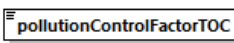
diagram	 <p>Percent of volatile organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of volatile organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)




element **categoryBoilerHeater/TOC\_EI**

diagram	 <p>Total organic compound emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation Total organic compound emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryBoilerHeater/pollutionControlFactorTOC**

diagram	 <p>Percent of total organic compounds removed by pollution control measures. Valid values: 0 to 100.(%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of total organic compounds removed by pollution control measures. Valid values: 0 to 100.(%)


element **categoryBoilerHeater/THC\_EI**

diagram	 <p>Total hydrocarbon emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation Total hydrocarbon emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryBoilerHeater/pollutionControlFactorHC**

diagram	 <p>Percent of hydrocarbons removed by pollution control measures. Valid values: 0 to 100. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of hydrocarbons removed by pollution control measures. Valid values: 0 to 100. (%)


element **categoryBoilerHeater/NOx\_EI**

diagram	 <p>NOx emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation NOx emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )

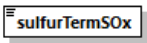
element **categoryBoilerHeater/pollutionControlFactorNOx**

diagram	 <p>Percent of nitrous oxides removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of nitrous oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryBoilerHeater/constantTermSOx**


diagram	 <p>SOx emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation SOx emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )

element **categoryBoilerHeater/sulfurTermSOx**


diagram	 <p>SOx sulfur EI term, fuel dependent. Valid values: 0 to 1000. (Kg/1000 m<sup>3</sup> - %Sulfur, or Kg/Kiloliter - %Sulfur, or Kg/Metric Ton - %Sulfur)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation

SOx sulfur EI term, fuel dependent. Valid values: 0 to 1000. (Kg/1000 m<sup>3</sup> - %Sulfur, or Kg/Kiloliter - %Sulfur, or Kg/Metric Ton - %Sulfur)

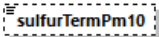
element **categoryBoilerHeater/pollutionControlFactorSOx**

diagram	 pollutionControlFactorSOx Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

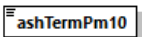
element **categoryBoilerHeater/constantTermPm10**

diagram	 constantTermPm10 PM10 emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 emissions Index, dependent on fuel type. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter or Kg/1000 m <sup>3</sup> )

element **categoryBoilerHeater/sulfurTermPm10**

diagram	 sulfurTermPm10 PM10 sulfur EI term, fuel dependent. Valid values: 0 to 1000. (Kg/1000 m <sup>3</sup> - %Sulfur, or Kg/Kiloliter - %Sulfur, or Kg/Metric Ton - %Sulfur)
type	<b>doubleInclusive1000</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 sulfur EI term, fuel dependent. Valid values: 0 to 1000. (Kg/1000 m <sup>3</sup> - %Sulfur, or Kg/Kiloliter - %Sulfur, or Kg/Metric Ton - %Sulfur)

element **categoryBoilerHeater/ashTermPm10**

diagram	 ashTermPm10 PM10 ash term. Valid values: 0 to 1000.(Kg/Metric Ton - %Ash)
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000

annotation	documentation PM10 ash term. Valid values: 0 to 1000.(Kg/Metric Ton - %Ash)
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element **categoryBoilerHeater/fuelAshContent**

diagram	
type	<b><u>doubleExclusive100</u></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Percent of fuel that is ash. Valid values: 0 to 1000. (%)

element **categoryBoilerHeater/pollutionControlFactorPM10**

diagram	
type	<b><u>doubleInclusive100</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryBoilerHeater/pm25ToPm10Ratio**

diagram	
type	<b><u>doubleInclusive1</u></b>
properties	content simple default 1
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation PM 2.5 to PM 10 ratio. Valid values: 0 to 1000. (dimensionless)

element **categoryBoilerHeater/fuelCalciumSulfurRatio**

diagram	
type	<b><u>doubleExclusive1000</u></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation

Ratio of calcium to sulfur within the fuel. Valid values: 0 to 1000. (dimensionless)

element **categoryBoilerHeater/fuelSulfurContent**

diagram	
type	<b>doubleExclusive100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Percent of fuel that is sulfur. Valid values 0 to 1000. (%)

element **categoryDeicingArea**

diagram	
properties	content complex
children	<a href="#">typeCode</a> <a href="#">VOC_EI</a> <a href="#">ethyleneGlycolDensity</a> <a href="#">propyleneGlycolDensity</a> <a href="#">solutionConcentrationPercent</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the deicing area category.

element **categoryDeicingArea/typeCode**

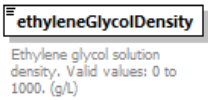
diagram	
type	<b>int1to4</b>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 4
annotation	documentation Describes this category.

element **categoryDeicingArea/VOC\_EI**

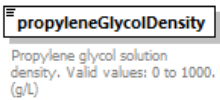
diagram	
type	<b>doubleInclusive1000</b>

properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation VOC emissions index, fuel type dependent. Valid values: 0 to 1000. (Kg/Metric Ton or Kg/Kiloliter)

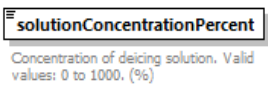
element **categoryDeicingArea/ethyleneGlycolDensity**

diagram	
type	<b><u>doubleExclusive2000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 2000
annotation	documentation Ethylene glycol solution density. Valid values: 0 to 1000. (g/L)

element **categoryDeicingArea/propyleneGlycolDensity**

diagram	
type	<b><u>doubleExclusive2000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 2000
annotation	documentation Propylene glycol solution density. Valid values: 0 to 1000. (g/L)

element **categoryDeicingArea/solutionConcentrationPercent**

diagram	
type	<b><u>doubleExclusive100</u></b>
properties	content simple default 50
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Concentration of deicing solution. Valid values: 0 to 1000. (%)

element **categoryFuelTank**

diagram	
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properties	content complex
children	<a href="#">typeCode</a> <a href="#">tankDiameter</a> <a href="#">horizontalTank</a> <a href="#">verticalTank</a> <a href="#">reidVaporPressure</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the fuel tank category.

element **categoryFuelTank/typeCode**

diagram	
type	<a href="#">int1to25</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 25
annotation	documentation Describes this category.

element **categoryFuelTank/tankDiameter**

diagram	
type	<a href="#">doubleExclusive1000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Diameter of tank. Valid values: 0 to 1000. (m)

element **categoryFuelTank/horizontalTank**

diagram	
properties	content complex
children	<a href="#">tankLength</a>
annotation	documentation Describes a horizontal tank.

element **categoryFuelTank/horizontalTank/tankLength**

diagram	
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	<div style="border: 1px solid black; padding: 2px; width: fit-content;"> <b>tankLength</b> </div> <p>Length of tank. Valid values: 0 to 1000. (m)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Length of tank. Valid values: 0 to 1000. (m)

element **categoryFuelTank/verticalTank**

diagram	<pre> classDiagram     class verticalTank {         Describes a vertical tank.     }     class maximumSolutionLevel {         Maximum height of solution inside the tank. Valid values: 0 to 1000. (m)     }     class tankHeight {         Height of tank. Valid values: 0 to 1000. (m)     }     class averageSolutionLevel {         A verage height of solution inside the tank. Valid values: 0 to 1000. (m)     }     class meanWindSpeed {         Average wind speed at the tank. Valid values: 0 to 1000. (m/s)     }     verticalTank &lt; -- maximumSolutionLevel     verticalTank &lt; -- tankHeight     verticalTank &lt; -- averageSolutionLevel     verticalTank &lt; -- meanWindSpeed         </pre>
properties	content complex
children	<b>maximumSolutionLevel tankHeight averageSolutionLevel meanWindSpeed</b>
annotation	documentation Describes a vertical tank.

element **categoryFuelTank/verticalTank/maximumSolutionLevel**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;"> <b>maximumSolutionLevel</b> </div> <p>Maximum height of solution inside the tank. Valid values: 0 to 1000. (m)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Maximum height of solution inside the tank. Valid values: 0 to 1000. (m)

element **categoryFuelTank/verticalTank/tankHeight**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;"> <b>tankHeight</b> </div> <p>Height of tank. Valid values: 0 to 1000. (m)</p>
type	<b>doubleExclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Height of tank. Valid values: 0 to 1000. (m)



element **categoryFuelTank/verticalTank/averageSolutionLevel**

diagram	
type	<a href="#">doubleExclusive1000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation Average height of solution inside the tank. Valid values: 0 to 1000. (m)

element **categoryFuelTank/verticalTank/meanWindSpeed**

diagram	
type	<a href="#">doubleExclusive100</a>
properties	minOcc 0 maxOcc 1 content simple default 5
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Average wind speed at the tank. Valid values: 0 to 1000. (m/s)

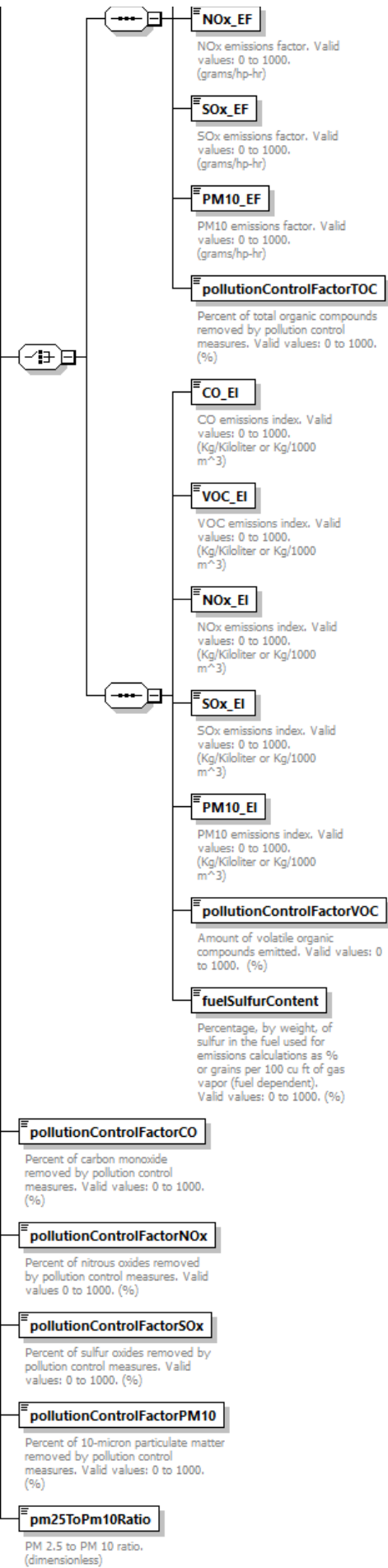
element **categoryFuelTank/reidVaporPressure**

diagram	
type	<a href="#">int6to13</a>
properties	minOcc 0 maxOcc 1 content simple default 10
facets	Kind Value Annotation minInclusive 6 maxInclusive 13
annotation	documentation Reid vapor pressure. Valid values: 0 to 1000. (PSI)

element **categoryGenerator**


diagram	
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**categoryGenerator**  
 Describes the operational characteristics of a source in the generator category.




children	<a href="#">typeCode</a> <a href="#">powerRatingHorsepower</a> <a href="#">CO_EF</a> <a href="#">TOC_EF</a> <a href="#">NOx_EF</a> <a href="#">SOx_EF</a> <a href="#">PM10_EF</a> <a href="#">pollutionControlFactorTOC_CO_EI</a> <a href="#">VOC_EI</a> <a href="#">NOx_EI</a> <a href="#">SOx_EI</a> <a href="#">PM10_EI</a> <a href="#">pollutionControlFactorVOC_fuelSulfurContent</a> <a href="#">pollutionControlFactorCO</a> <a href="#">pollutionControlFactorNOx</a> <a href="#">pollutionControlFactorSOx</a> <a href="#">pollutionControlFactorPM10</a> <a href="#">pm25ToPm10Ratio</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the generator category.


element **categoryGenerator/typeCode**

diagram	 Describes this category.
type	<a href="#">int1to8</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 8
annotation	documentation Describes this category.

element **categoryGenerator/powerRatingHorsepower**

diagram	 The rated power of the generator in horsepower. Valid values: 0 to 10000. (hp)
type	<a href="#">doubleInclusive10000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 10000
annotation	documentation The rated power of the generator in horsepower. Valid values: 0 to 10000. (hp)

element **categoryGenerator/CO\_EF**

diagram	 CO emissions factor. Valid values: 0 to 1000. (grams/hp-hr)
type	<a href="#">doubleInclusive1000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation CO emissions factor. Valid values: 0 to 1000. (grams/hp-hr)

element **categoryGenerator/TOC\_EF**

diagram	 TOC emissions factor. Valid values: 0 to 1000. (grams/hp-hr)
type	<a href="#">doubleInclusive1000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation

TOC emissions factor. Valid values: 0 to 1000. (grams/hp-hr)


element **categoryGenerator/NOx\_EF**

diagram	 NOx emissions factor. Valid values: 0 to 1000. (grams/hp-hr)
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation NOx emissions factor. Valid values: 0 to 1000. (grams/hp-hr)

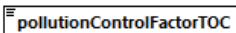
element **categoryGenerator/SOx\_EF**

diagram	 SOx emissions factor. Valid values: 0 to 1000. (grams/hp-hr)
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation SOx emissions factor. Valid values: 0 to 1000. (grams/hp-hr)


element **categoryGenerator/PM10\_EF**

diagram	 PM10 emissions factor. Valid values: 0 to 1000. (grams/hp-hr)
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 emissions factor. Valid values: 0 to 1000. (grams/hp-hr)


element **categoryGenerator/pollutionControlFactorTOC**

diagram	 Percent of total organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of total organic compounds removed by pollution control measures. Valid values: 0 to 1000. (%)


element **categoryGenerator/CO\_EI**

diagram	 <p>CO emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation CO emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryGenerator/VOC\_EI**

diagram	 <p>VOC emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation VOC emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryGenerator/NOx\_EI**

diagram	 <p>NOx emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation NOx emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryGenerator/SOx\_EI**

diagram	 <p>SOx emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation SOx emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryGenerator/PM10\_EI**

diagram	 <p>PM10 emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m<sup>3</sup>)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 emissions index. Valid values: 0 to 1000. (Kg/Kiloliter or Kg/1000 m <sup>3</sup> )


element **categoryGenerator/pollutionControlFactorVOC**

diagram	 <p>Amount of volatile organic compounds emitted. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Amount of volatile organic compounds emitted. Valid values: 0 to 1000. (%)

element **categoryGenerator/fuelSulfurContent**

diagram	 <p>Percentage, by weight, of sulfur in the fuel used for emissions calculations as % or grains per 100 cu ft of gas vapor (fuel dependent). Valid values: 0 to 1000. (%)</p>
type	<b>doubleExclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Percentage, by weight, of sulfur in the fuel used for emissions calculations as % or grains per 100 cu ft of gas vapor (fuel dependent). Valid values: 0 to 1000. (%)

element **categoryGenerator/pollutionControlFactorCO**

diagram	 <p>Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryGenerator/pollutionControlFactorNOx**

diagram	<p>Percent of nitrous oxides removed by pollution control measures. Valid values 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of nitrous oxides removed by pollution control measures. Valid values 0 to 1000. (%)

element **categoryGenerator/pollutionControlFactorSOx**

diagram	<p>Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryGenerator/pollutionControlFactorPM10**

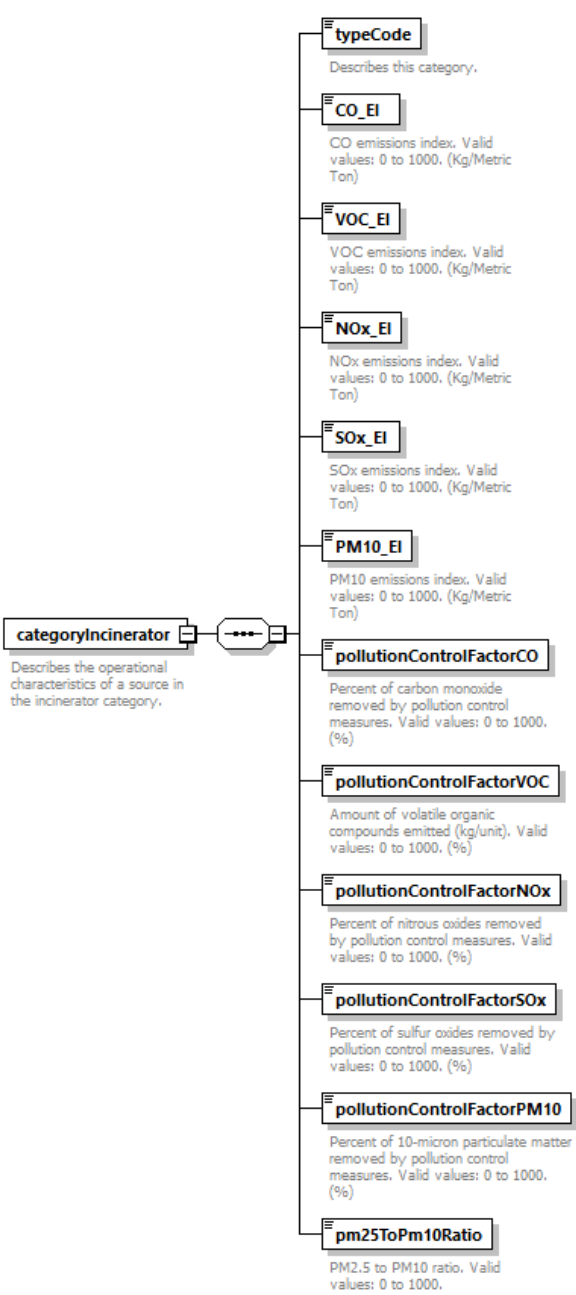
diagram	<p>Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryGenerator/pm25ToPm10Ratio**

diagram	<p>PM 2.5 to PM 10 ratio. (dimensionless)</p>
type	<b>doubleInclusive1</b>
properties	content simple default 1
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation PM 2.5 to PM 10 ratio. (dimensionless)

element **categoryIncinerator**

diagram	
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properties	content complex
children	<b>typeCode</b> <b>CO_EI</b> <b>VOC_EI</b> <b>NOx_EI</b> <b>SOx_EI</b> <b>PM10_EI</b> <b>pollutionControlFactorCO</b> <b>pollutionControlFactorVOC</b> <b>pollutionControlFactorNOx</b> <b>pollutionControlFactorSOx</b> <b>pollutionControlFactorPM10</b> <b>pm25ToPm10Ratio</b>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the incinerator category.

element **categoryIncinerator/typeCode**

diagram	<b>typeCode</b> Describes this category.
type	<a href="#">int1to2</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 2
annotation	documentation Describes this category.




element **categoryIncinerator/CO\_EI**

diagram	 <p>CO emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)</p>
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation CO emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)


element **categoryIncinerator/VOC\_EI**

diagram	 <p>VOC emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)</p>
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation VOC emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)

element **categoryIncinerator/NOx\_EI**


diagram	 <p>NOx emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)</p>
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation NOx emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)

element **categoryIncinerator/SOx\_EI**


diagram	 <p>SOx emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)</p>
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation SOx emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)

element **categoryIncinerator/PM10\_EI**

diagram	
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	 <p>PM10 emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 emissions index. Valid values: 0 to 1000. (Kg/Metric Ton)


element **categoryIncinerator/pollutionControlFactorCO**

diagram	 <p>Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryIncinerator/pollutionControlFactorVOC**


diagram	 <p>Amount of volatile organic compounds emitted (kg/unit). Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Amount of volatile organic compounds emitted (kg/unit). Valid values: 0 to 1000. (%)

element **categoryIncinerator/pollutionControlFactorNOx**


diagram	 <p>Percent of nitrous oxides removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of nitrous oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryIncinerator/pollutionControlFactorSOx**

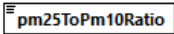
diagram	
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	 <p>Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryIncinerator/pollutionControlFactorPM10**

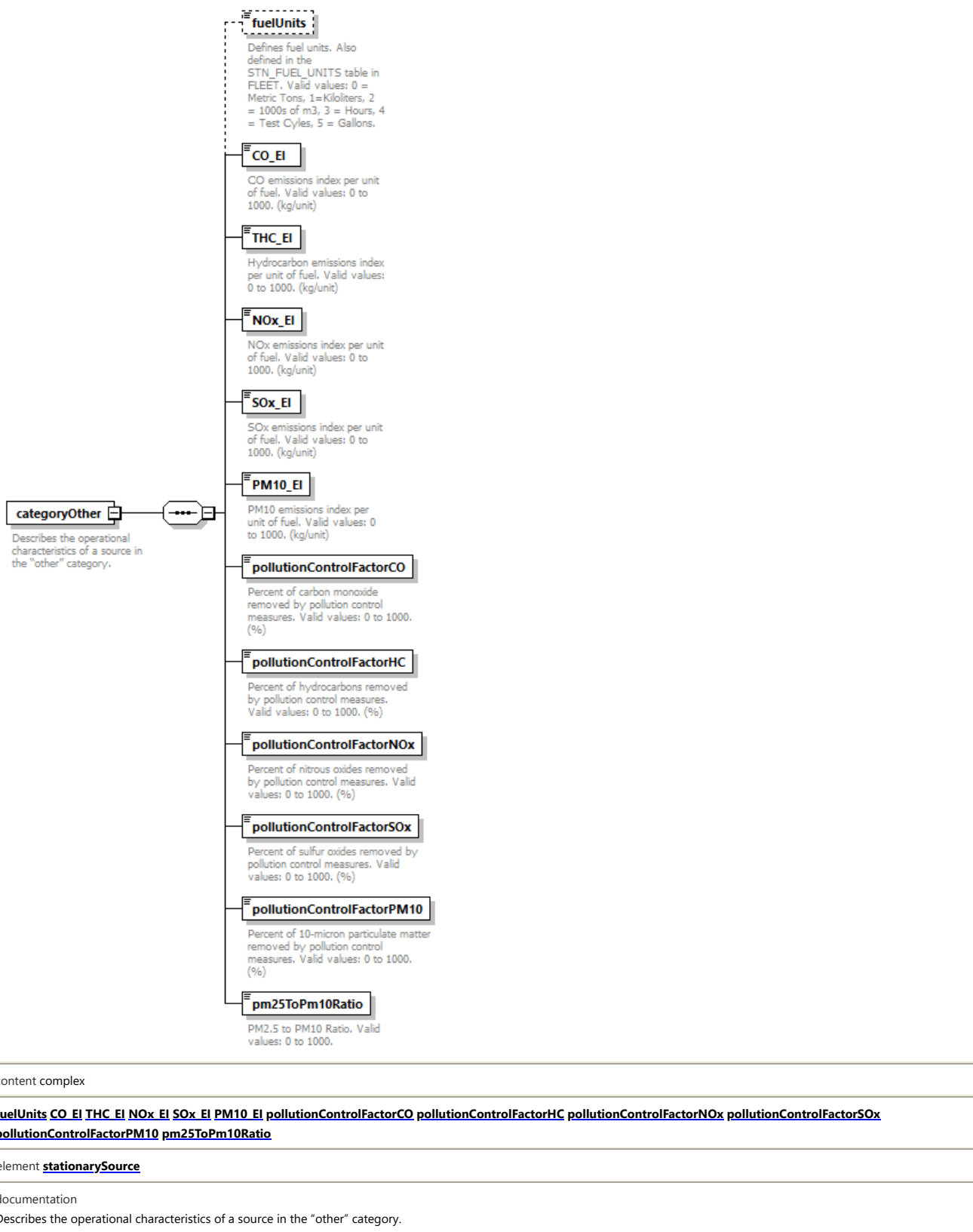
diagram	 <p>Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryIncinerator/pm25ToPm10Ratio**

diagram	 <p>PM2.5 to PM10 ratio. Valid values: 0 to 1000.</p>
type	<b>doubleInclusive1</b>
properties	content simple default 1
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation PM2.5 to PM10 ratio. Valid values: 0 to 1000.

element **categoryOther**

diagram	
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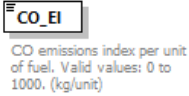


element **categoryOther/fuelUnits**

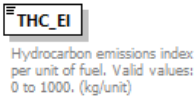
diagram	<p><b>fuelUnits</b> Defines fuel units. Also defined in the STN_FUEL_UNITS table in FLEET. Valid values: 0 = Metric Tons, 1=Kiloliters, 2 = 1000s of m3, 3 = Hours, 4 = Test Cyles, 5 = Gallons.</p>
type	<a href="#">int0to5</a>

properties	minOcc 0 maxOcc 1 content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 5
annotation	documentation Defines fuel units. Also defined in the STN_FUEL_UNITS table in FLEET. Valid values: 0 = Metric Tons, 1=Kiloliters, 2 = 1000s of m3, 3 = Hours, 4 = Test Cyles, 5 = Gallons.

element **categoryOther/CO\_EI**

diagram	
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation CO emissions index per unit of fuel. Valid values: 0 to 1000. (kg/unit)


element **categoryOther/THC\_EI**

diagram	
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation Hydrocarbon emissions index per unit of fuel. Valid values: 0 to 1000. (kg/unit)

element **categoryOther/NOx\_EI**

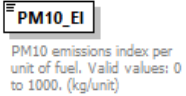
diagram	
type	<b><u>doubleInclusive1000</u></b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation NOx emissions index per unit of fuel. Valid values: 0 to 1000. (kg/unit)

element **categoryOther/SOx\_EI**

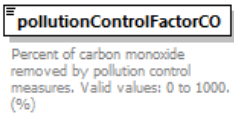
diagram	
type	<b><u>doubleInclusive1000</u></b>
properties	content simple

	default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation SOx emissions index per unit of fuel. Valid values: 0 to 1000. (kg/unit)

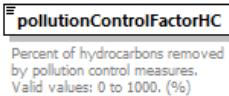
element **categoryOther/PM10\_EI**

diagram	
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation PM10 emissions index per unit of fuel. Valid values: 0 to 1000. (kg/unit)


element **categoryOther/pollutionControlFactorCO**

diagram	
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of carbon monoxide removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryOther/pollutionControlFactorHC**

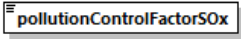
diagram	
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of hydrocarbons removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryOther/pollutionControlFactorNOx**


diagram	
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation

	minInclusive 0 maxInclusive 100
annotation	documentation Percent of nitrous oxides removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryOther/pollutionControlFactorSOx**

diagram	 <p>Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of sulfur oxides removed by pollution control measures. Valid values: 0 to 1000. (%)


element **categoryOther/pollutionControlFactorPM10**

diagram	 <p>Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percent of 10-micron particulate matter removed by pollution control measures. Valid values: 0 to 1000. (%)

element **categoryOther/pm25ToPm10Ratio**

diagram	 <p>PM2.5 to PM10 Ratio. Valid values: 0 to 1000.</p>
type	<b>doubleInclusive1</b>
properties	content simple default 1
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation PM2.5 to PM10 Ratio. Valid values: 0 to 1000.

element **categoryRecordCode**

diagram	 <p>An integer value for a category to use as the basis of a new stationary source operation. This value comes from the CATEGORY_REC_ID column in the STN_CATEGORY table in the AEDT FLEET database.</p>
properties	content complex
children	<b>recordCode</b>

used by	element <a href="#">stationarySource</a>
annotation	documentation An integer value for a category to use as the basis of a new stationary source operation. This value comes from the CATEGORY_REC_ID column in the STN_CATEGORY table in the AEDT FLEET database.

element **categorySandSaltPile**

diagram	<p>The diagram shows a central box labeled <b>categorySandSaltPile</b> with the description: "Describes the emissions characteristics of a source in the sand or salt pile category." This box is connected to a central hub, which then branches out to nine sub-element boxes, each with a description and valid values:</p> <ul style="list-style-type: none"> <li><b>typeCode</b>: Describes this category.</li> <li><b>surfaceWindSpeedFraction</b>: Surface wind speed fraction. Valid values: 0 to 1000, (unitless)</li> <li><b>surfaceRoughness</b>: The surface roughness of the pile. Valid values: 0 to 1000, (cm)</li> <li><b>frictionVelocity</b>: Friction velocity. Valid values: 0 to 1000, (m/s)</li> <li><b>fastestMileOfWind</b>: Fastest mile of wind. Valid values: 0 to 1000, (m/s)</li> <li><b>meanWindSpeed</b>: Average wind speed at sand or salt pile. Valid values: 0 to 1000, (m/s)</li> <li><b>moistureContent</b>: Percentage of sand or salt pile that is moisture. Valid values: 0 to 1000, (%)</li> <li><b>massDisturbedPerDisturbance</b>: The mass disturbed per disturbance. Valid values: 0 to 1000, (Metric Tons)</li> <li><b>erodedSurfaceArea</b>: Eroded surface area of pile. Valid values: 0 to 1000, (meters<sup>2</sup>)</li> </ul>
properties	content complex
children	<a href="#">typeCode</a> <a href="#">surfaceWindSpeedFraction</a> <a href="#">surfaceRoughness</a> <a href="#">frictionVelocity</a> <a href="#">fastestMileOfWind</a> <a href="#">meanWindSpeed</a> <a href="#">moistureContent</a> <a href="#">massDisturbedPerDisturbance</a> <a href="#">erodedSurfaceArea</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the emissions characteristics of a source in the sand or salt pile category.

element **categorySandSaltPile/typeCode**

diagram	<p>The diagram shows a box labeled <b>typeCode</b> with the description: "Describes this category."</p>
type	<a href="#">int1to5</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 5
annotation	documentation Describes this category.


element **categorySandSaltPile/surfaceWindSpeedFraction**

diagram	<p>The diagram shows a box labeled <b>surfaceWindSpeedFraction</b> with the description: "Surface wind speed fraction. Valid values: 0 to 1000, (unitless)"</p>
type	<a href="#">doubleInclusive1</a>

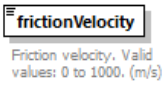


properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation Surface wind speed fraction. Valid values: 0 to 1000. (unitless)


element **categorySandSaltPile/surfaceRoughness**

diagram	
type	<b>doubleExclusiveRange100</b>
properties	content simple default 0.01
facets	Kind Value Annotation minExclusive 0 maxExclusive 100
annotation	documentation The surface roughness of the pile. Valid values: 0 to 1000. (cm)

element **categorySandSaltPile/frictionVelocity**

diagram	
type	<b>doubleExclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Friction velocity. Valid values: 0 to 1000. (m/s)

element **categorySandSaltPile/fastestMileOfWind**

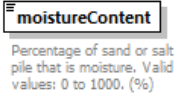
diagram	
type	<b>doubleExclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Fastest mile of wind. Valid values: 0 to 1000. (m/s)

element **categorySandSaltPile/meanWindSpeed**

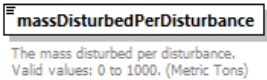
diagram	
type	<b>doubleExclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0

	maxExclusive 100
annotation	documentation Average wind speed at sand or salt pile. Valid values: 0 to 1000. (m/s)

element **categorySandSaltPile/moistureContent**

diagram	
type	<a href="#">doubleExclusiveRange100</a>
properties	content simple default 0.01
facets	Kind Value Annotation minExclusive 0 maxExclusive 100
annotation	documentation Percentage of sand or salt pile that is moisture. Valid values: 0 to 1000. (%)

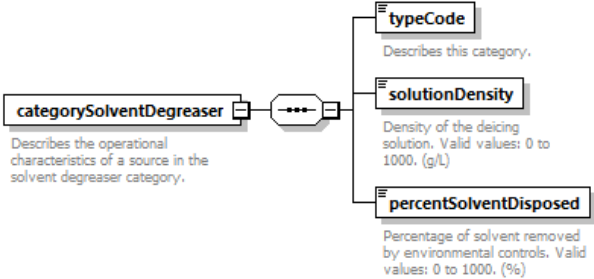
element **categorySandSaltPile/massDisturbedPerDisturbance**

diagram	
type	<a href="#">doubleExclusive1000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation The mass disturbed per disturbance. Valid values: 0 to 1000. (Metric Tons)

element **categorySandSaltPile/erodedSurfaceArea**

diagram	
type	<a href="#">doubleExclusive10000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 10000
annotation	documentation Eroded surface area of pile. Valid values: 0 to 1000. (meters <sup>2</sup> )

element **categorySolventDegreaser**

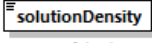
diagram	
properties	content complex
children	<a href="#">typeCode</a> <a href="#">solutionDensity</a> <a href="#">percentSolventDisposed</a>

used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the solvent degreaser category.


element **categorySolventDegreaser/typeCode**

diagram	 <p>Describes this category.</p>
type	<a href="#">int1to13</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 13
annotation	documentation Describes this category.

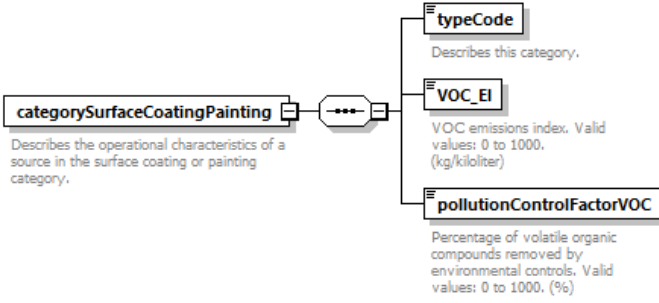
element **categorySolventDegreaser/solutionDensity**

diagram	 <p>Density of the deicing solution. Valid values: 0 to 1000. (g/L)</p>
type	<a href="#">doubleExclusive2000</a>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxExclusive 2000
annotation	documentation Density of the deicing solution. Valid values: 0 to 1000. (g/L)

element **categorySolventDegreaser/percentSolventDisposed**

diagram	 <p>Percentage of solvent removed by environmental controls. Valid values: 0 to 1000. (%)</p>
type	<b>xs:double</b>
properties	content simple default 0
annotation	documentation Percentage of solvent removed by environmental controls. Valid values: 0 to 1000. (%)


element **categorySurfaceCoatingPainting**

diagram	 <p>Describes the operational characteristics of a source in the surface coating or painting category.</p>
properties	content complex
children	<a href="#">typeCode</a> <a href="#">VOC_EI</a> <a href="#">pollutionControlFactorVOC</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Describes the operational characteristics of a source in the surface coating or painting category.


element **categorySurfaceCoatingPainting/typeCode**

diagram	 <p>Describes this category.</p>
type	<b>int1to8</b>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 8
annotation	documentation Describes this category.

element **categorySurfaceCoatingPainting/VOC\_EI**

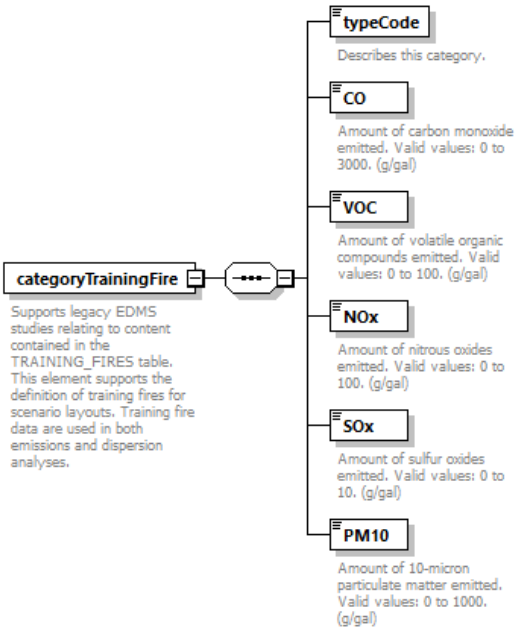
diagram	 <p>VOC emissions index. Valid values: 0 to 1000. (kg/kiloliter)</p>
type	<b>doubleInclusive1000</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation VOC emissions index. Valid values: 0 to 1000. (kg/kiloliter)

element **categorySurfaceCoatingPainting/pollutionControlFactorVOC**

diagram	 <p>Percentage of volatile organic compounds removed by environmental controls. Valid values: 0 to 1000. (%)</p>
type	<b>doubleInclusive100</b>
properties	content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percentage of volatile organic compounds removed by environmental controls. Valid values: 0 to 1000. (%)

element **categoryTrainingFire**

diagram	
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	 <p><b>categoryTrainingFire</b></p> <p>Supports legacy EDMS studies relating to content contained in the TRAINING_FIRES table. This element supports the definition of training fires for scenario layouts. Training fire data are used in both emissions and dispersion analyses.</p> <p><b>typeCode</b> Describes this category.</p> <p><b>CO</b> Amount of carbon monoxide emitted. Valid values: 0 to 3000. (g/gal)</p> <p><b>VOC</b> Amount of volatile organic compounds emitted. Valid values: 0 to 100. (g/gal)</p> <p><b>NOx</b> Amount of nitrous oxides emitted. Valid values: 0 to 100. (g/gal)</p> <p><b>SOx</b> Amount of sulfur oxides emitted. Valid values: 0 to 10. (g/gal)</p> <p><b>PM10</b> Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (g/gal)</p>
properties	content complex
children	<a href="#">typeCode</a> <a href="#">CO</a> <a href="#">VOC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM10</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the TRAINING_FIRES table. This element supports the definition of training fires for scenario layouts. Training fire data are used in both emissions and dispersion analyses.

element **categoryTrainingFire/typeCode**

diagram	
type	<a href="#">int1to5</a>
properties	content simple
facets	Kind Value Annotation minInclusive 1 maxInclusive 5
annotation	documentation Describes this category.

element **categoryTrainingFire/CO**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of carbon monoxide emitted. Valid values: 0 to 3000. (g/gal)

element **categoryTrainingFire/VOC**


diagram	
type	<b>xs:double</b>
properties	content simple

annotation	documentation Amount of volatile organic compounds emitted. Valid values: 0 to 100. (g/gal)
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
element **categoryTrainingFire/NOx**

diagram	 <p>Amount of nitrous oxides emitted. Valid values: 0 to 100. (g/gal)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of nitrous oxides emitted. Valid values: 0 to 100. (g/gal)

element **categoryTrainingFire/SOx**

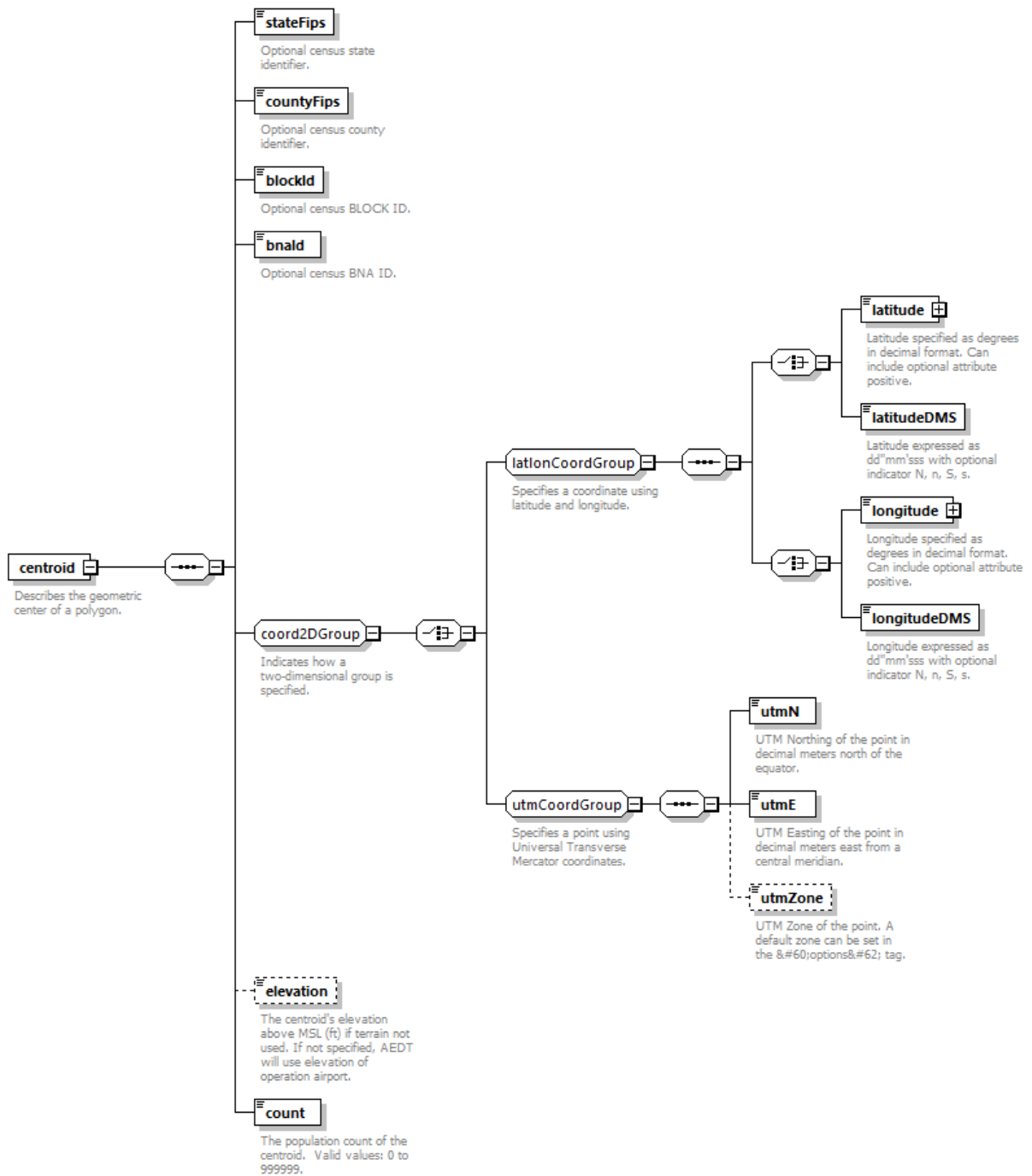
diagram	 <p>Amount of sulfur oxides emitted. Valid values: 0 to 10. (g/gal)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of sulfur oxides emitted. Valid values: 0 to 10. (g/gal)

element **categoryTrainingFire/PM10**

diagram	 <p>Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (g/gal)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (g/gal)

element **centroid**

diagram	
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properties	content complex
children	<b>stateFips countyFips blockId bnald latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone elevation count</b>
used by	group <a href="#">receptorGroup</a>
annotation	documentation Describes the geometric center of a polygon.

element **centroid/stateFips**

diagram	<b>stateFips</b> Optional census state identifier.
type	<b>xs:int</b>
properties	content simple
annotation	documentation Optional census state identifier.

element **centroid/countyFips**

diagram	 <p>Optional census county identifier.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Optional census county identifier.


element **centroid/blockId**

diagram	 <p>Optional census BLOCK ID.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Optional census BLOCK ID.


element **centroid/bnald**

diagram	 <p>Optional census BNA ID.</p>
type	<b>string6</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 6
annotation	documentation Optional census BNA ID.

element **centroid/elevation**

diagram	 <p>The centroid's elevation above MSL (ft) if terrain not used. If not specified, AEDT will use elevation of operation airport.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The centroid's elevation above MSL (ft) if terrain not used. If not specified, AEDT will use elevation of operation airport.

element **centroid/count**

diagram	 <p>The population count of the centroid. Valid values: 0 to 999999.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation The population count of the centroid. Valid values: 0 to 999999.

element **climate**

diagram	
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	<p><b>climate</b> Characterizes the climate during the study.</p> <p><b>identifier</b> Identifier of the climate condition.</p> <p><b>temperature</b> Temperature in the climate condition. (°F)</p> <p><b>pressure</b> Atmospheric pressure in the climate condition. (in Hg)</p> <p><b>humidity</b> Humidity in the climate condition. (%)</p> <p><b>headWind</b> Velocity of headwind. (kts)</p> <p><b>seaLevelPressure</b> Atmospheric pressure at sea level. (in Hg)</p> <p><b>dewPoint</b> Dew point in the climate condition. (°F)</p> <p><b>windDirection</b> Wind direction. Valid values: 0-360. (degrees)</p> <p><b>visibility</b> Visibility in the climate condition. (mi)</p>
properties	content complex
children	<a href="#">identifier</a> <a href="#">temperature</a> <a href="#">pressure</a> <a href="#">humidity</a> <a href="#">headWind</a> <a href="#">seaLevelPressure</a> <a href="#">dewPoint</a> <a href="#">windDirection</a> <a href="#">visibility</a>
used by	element <a href="#">study</a>
annotation	documentation Characterizes the climate during the study.

#### element **climate/identifier**

diagram	<p><b>identifier</b> Identifier of the climate condition.</p>
type	<b>string8</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Identifier of the climate condition.

#### element **climate/temperature**

diagram	<p><b>temperature</b> Temperature in the climate condition. (°F)</p>
type	<b>xs:float</b>
properties	content simple
annotation	documentation Temperature in the climate condition. (°F)

#### element **climate/pressure**

diagram	<p><b>pressure</b> Atmospheric pressure in the climate condition. (in Hg)</p>
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type	<b>xs:float</b>
properties	content simple
annotation	documentation Atmospheric pressure in the climate condition. (in Hg)

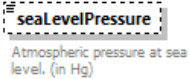
#### element **climate/humidity**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Humidity in the climate condition. (%)

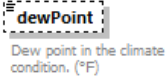
#### element **climate/headWind**

diagram	
type	<b>xs:float</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Velocity of headwind. (kts)

#### element **climate/seaLevelPressure**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Atmospheric pressure at sea level. (in Hg)

#### element **climate/dewPoint**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Dew point in the climate condition. (°F)

#### element **climate/windDirection**

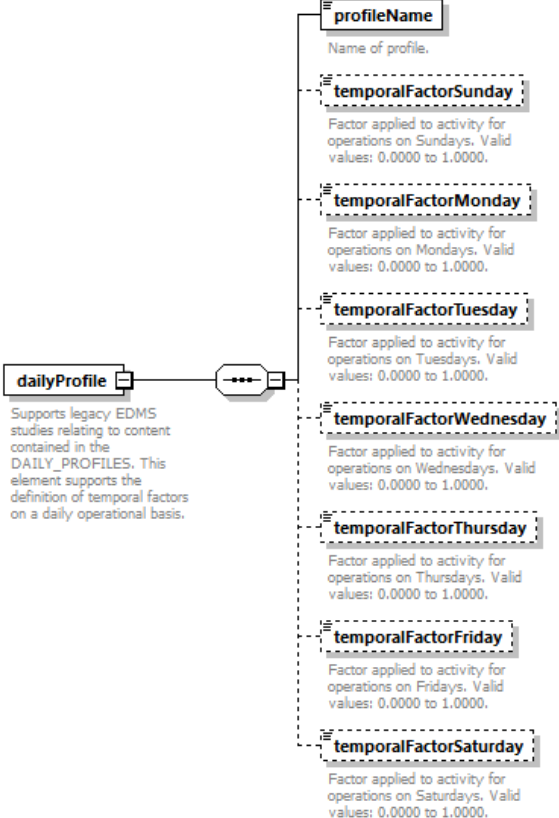
diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Wind direction. Valid values: 0-360. (degrees)


element **climate/visibility**

diagram	 <p><b>visibility</b> Visibility in the climate condition. (mi)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Visibility in the climate condition. (mi)

element **dailyProfile**

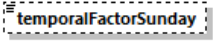
diagram	 <p><b>dailyProfile</b> Supports legacy EDMS studies relating to content contained in the DAILY_PROFILES. This element supports the definition of temporal factors on a daily operational basis.</p>
properties	content complex
children	<b>profileName</b> <b>temporalFactorSunday</b> <b>temporalFactorMonday</b> <b>temporalFactorTuesday</b> <b>temporalFactorWednesday</b> <b>temporalFactorThursday</b> <b>temporalFactorFriday</b> <b>temporalFactorSaturday</b>
used by	element <b>dailyProfileSet</b>
annotation	documentation Supports legacy EDMS studies relating to content contained in the DAILY_PROFILES. This element supports the definition of temporal factors on a daily operational basis.

element **dailyProfile/profileName**

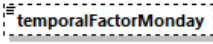
diagram	 <p><b>profileName</b> Name of profile.</p>
type	<b>string100</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation

Name of profile.

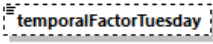
element **dailyProfile/temporalFactorSunday**

diagram	 <p><b>temporalFactorSunday</b> Factor applied to activity for operations on Sundays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Sundays. Valid values: 0.0000 to 1.0000.

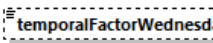
element **dailyProfile/temporalFactorMonday**

diagram	 <p><b>temporalFactorMonday</b> Factor applied to activity for operations on Mondays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Mondays. Valid values: 0.0000 to 1.0000.

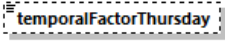
element **dailyProfile/temporalFactorTuesday**

diagram	 <p><b>temporalFactorTuesday</b> Factor applied to activity for operations on Tuesdays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Tuesdays. Valid values: 0.0000 to 1.0000.

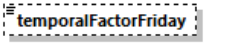
element **dailyProfile/temporalFactorWednesday**

diagram	 <p><b>temporalFactorWednesday</b> Factor applied to activity for operations on Wednesdays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Wednesdays. Valid values: 0.0000 to 1.0000.

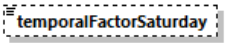
element **dailyProfile/temporalFactorThursday**

diagram	 <p>Factor applied to activity for operations on Thursdays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Thursdays. Valid values: 0.0000 to 1.0000.

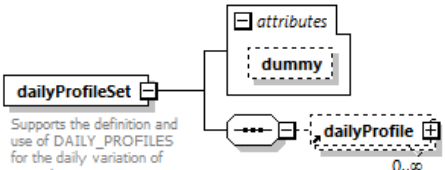
element **dailyProfile/temporalFactorFriday**

diagram	 <p>Factor applied to activity for operations on Fridays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Fridays. Valid values: 0.0000 to 1.0000.

element **dailyProfile/temporalFactorSaturday**

diagram	 <p>Factor applied to activity for operations on Saturdays. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations on Saturdays. Valid values: 0.0000 to 1.0000.

element **dailyProfileSet**

diagram	 <p>Supports the definition and use of DAILY_PROFILES for the daily variation of operations.</p> <p>Supports legacy EDMS studies relating to content contained in the DAILY_PROFILES. This element supports the definition of temporal factors on a daily operational basis.</p>												
properties	content complex												
children	<b>dailyProfile</b>												
used by	element <b>operationalProfileSet</b> complexType <b>airportLayoutType</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											

annotation	documentation Supports the definition and use of DAILY_PROFILES for the daily variation of operations.
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attribute **dailyProfileSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **dispersionWeight**

diagram	<p>Dispersion weights associated with the subtracks for this backbone. Subtracks are numbered in increasing order from the backbone outward. The allowable number of subtracks for a backbone are 1, 3, 5, 7 and 9. Valid dispersion weight values are greater than one and less than or equal to 1. The sum of the dispersion weights for this backbone must equal 1.</p>
properties	content complex
children	<a href="#">dispersionWeight1</a> <a href="#">dispersionWeight3</a> <a href="#">dispersionWeight5</a> <a href="#">dispersionWeight7</a> <a href="#">dispersionWeight9</a>
used by	element <a href="#">backbone</a>
annotation	documentation Dispersion weights associated with the subtracks for this backbone. Subtracks are numbered in increasing order from the backbone outward. The allowable number of subtracks for a backbone are 1, 3, 5, 7 and 9. Valid dispersion weight values are greater than one and less than or equal to 1. The sum of the dispersion weights for this backbone must equal 1.

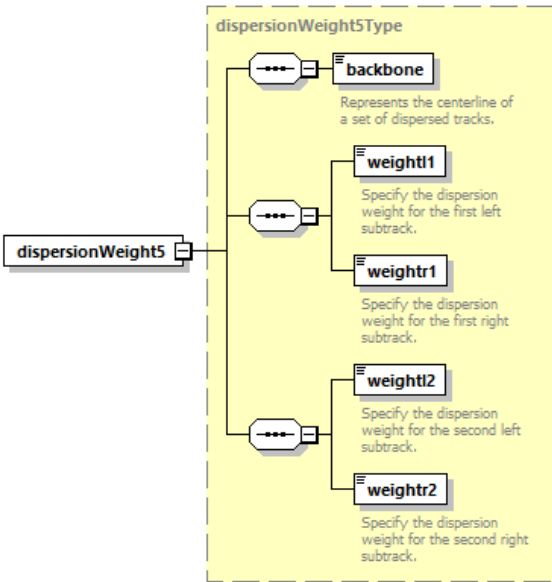
element **dispersionWeight/dispersionWeight1**

diagram	
type	<a href="#">dispersionWeight1Type</a>
properties	content complex
children	<a href="#">backbone</a>

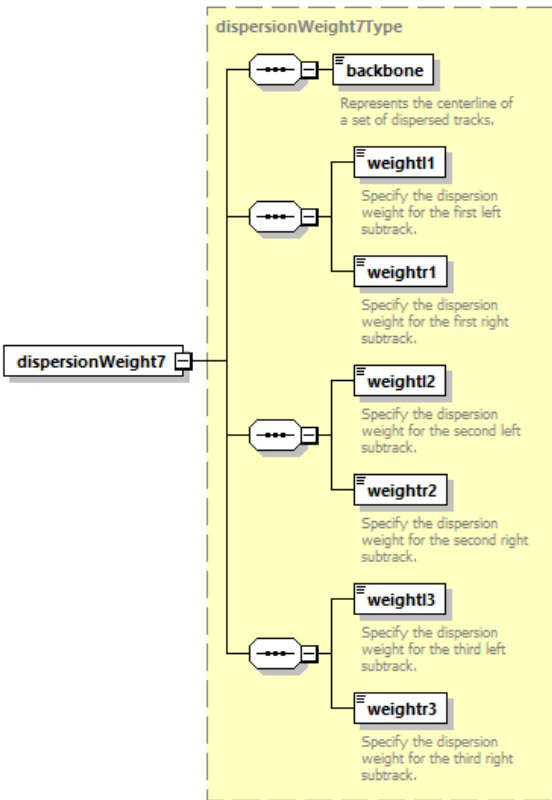
element **dispersionWeight/dispersionWeight3**

diagram	
type	<a href="#">dispersionWeight3Type</a>
properties	content complex
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weight1</a>

element **dispersionWeight/dispersionWeight5**

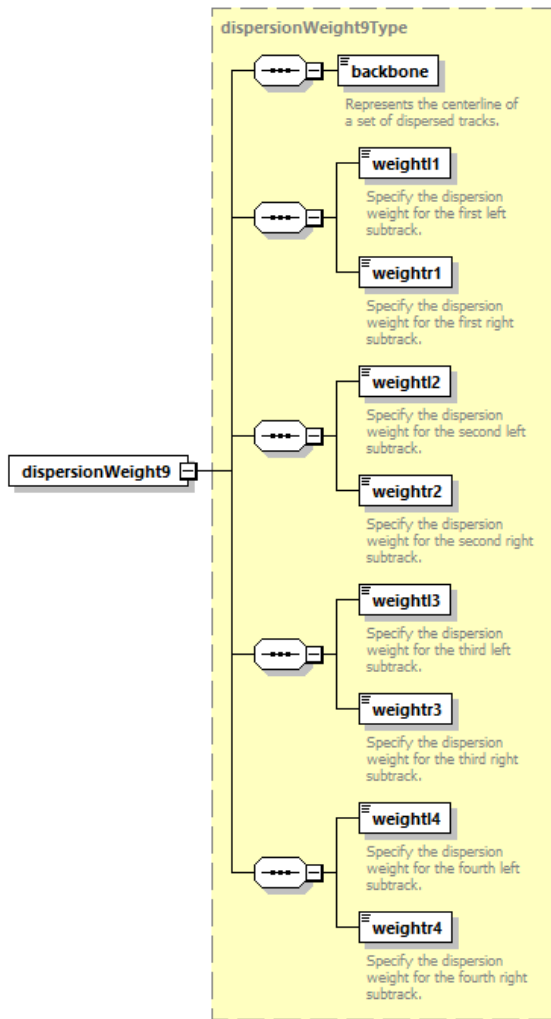
<p>diagram</p>	 <p>The diagram shows a tree structure for <b>dispersionWeight5Type</b>. The root node is <b>dispersionWeight5</b>. It branches into three main nodes: <b>backbone</b>, <b>weight1</b>, and <b>weight2</b>. Each of these nodes further branches into two sub-nodes: <b>weight1</b> and <b>weight2</b>. The <b>backbone</b> node is described as representing the centerline of a set of dispersed tracks. The <b>weight1</b> nodes specify dispersion weights for the first left and first right subtracks. The <b>weight2</b> nodes specify dispersion weights for the second left and second right subtracks.</p>
<p>type</p>	<p><b>dispersionWeight5Type</b></p>
<p>properties</p>	<p>content complex</p>
<p>children</p>	<p><b>backbone weight1 weightr1 weightl2 weightr2</b></p>

element **dispersionWeight/dispersionWeight7**

<p>diagram</p>	 <p>The diagram shows a tree structure for <b>dispersionWeight7Type</b>. The root node is <b>dispersionWeight7</b>. It branches into four main nodes: <b>backbone</b>, <b>weight1</b>, <b>weight2</b>, and <b>weight3</b>. Each of these nodes further branches into two sub-nodes: <b>weight1</b> and <b>weight2</b> for the first level, and <b>weight3</b> for the second level. The <b>backbone</b> node represents the centerline of a set of dispersed tracks. The <b>weight1</b> nodes specify dispersion weights for the first left and first right subtracks. The <b>weight2</b> nodes specify dispersion weights for the second left and second right subtracks. The <b>weight3</b> nodes specify dispersion weights for the third left and third right subtracks.</p>
<p>type</p>	<p><b>dispersionWeight7Type</b></p>
<p>properties</p>	<p>content complex</p>
<p>children</p>	<p><b>backbone weightl1 weightr1 weightl2 weightr2 weightl3 weightr3</b></p>

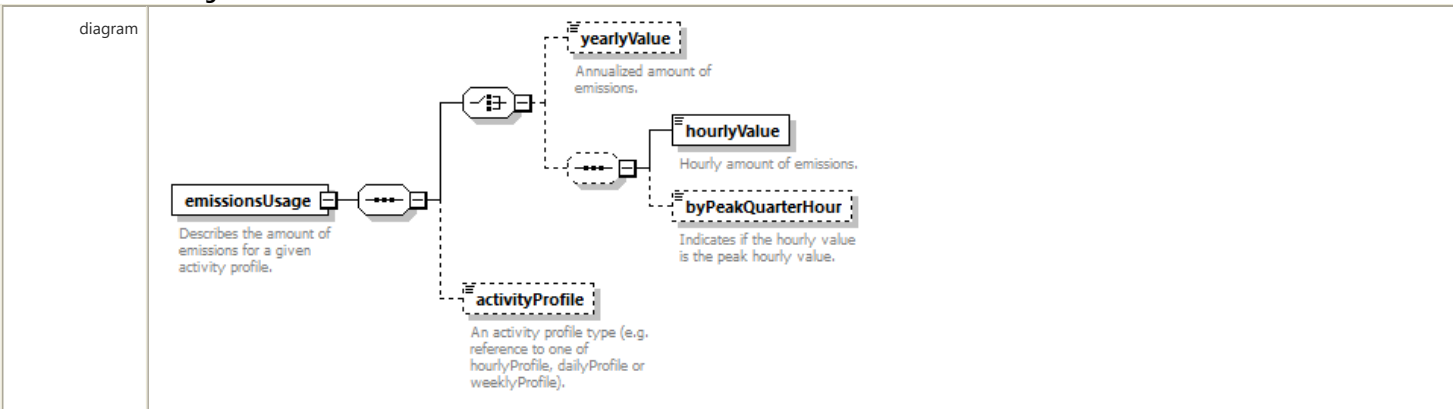
element **dispersionWeight/dispersionWeight9**

<p>diagram</p>	<p>(Diagram content is missing)</p>
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type	<a href="#">dispersionWeight9Type</a>
properties	content complex
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weightr1</a> <a href="#">weight2</a> <a href="#">weightr2</a> <a href="#">weight3</a> <a href="#">weightr3</a> <a href="#">weight4</a> <a href="#">weightr4</a>

element **emissionsUsage**



properties	content complex
children	<a href="#">yearlyValue</a> <a href="#">hourlyValue</a> <a href="#">byPeakQuarterHour</a> <a href="#">activityProfile</a>
used by	elements <a href="#">parkingFacilityOperation</a> <a href="#">roadwayOperation</a> <a href="#">stationarySourceOperation</a>
annotation	documentation Describes the amount of emissions for a given activity profile.

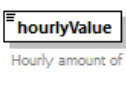
element **emissionsUsage/yearlyValue**

diagram	
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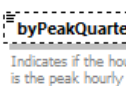


	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Annualized amount of emissions.

element **emissionsUsage/hourlyValue**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Hourly amount of emissions.

element **emissionsUsage/byPeakQuarterHour**

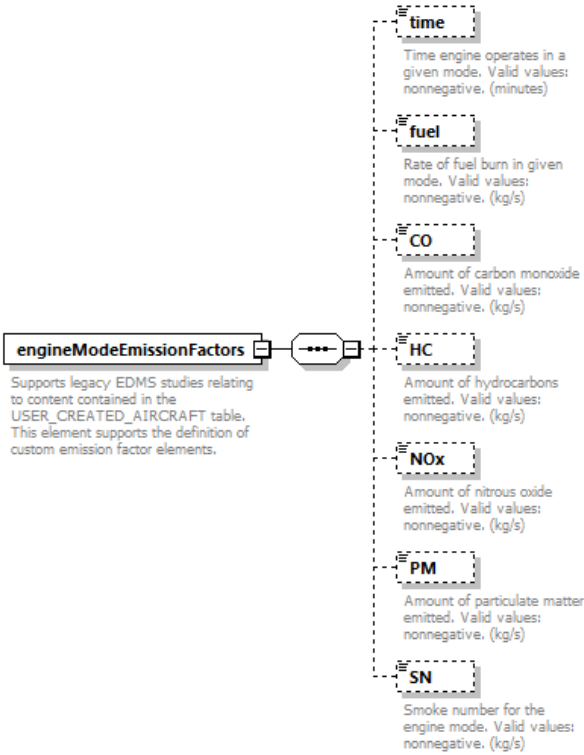
diagram	
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Indicates if the hourly value is the peak hourly value.

element **emissionsUsage/activityProfile**

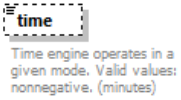
diagram	
type	<b>string40</b>
properties	minOcc 0 maxOcc 1 content simple
used by	element <b>activityProfileSet</b>
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation An activity profile type (e.g. reference to one of hourlyProfile, dailyProfile or weeklyProfile).

element **engineModeEmissionFactors**

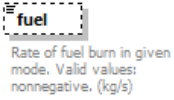
diagram	
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	 <p><b>engineModeEmissionFactors</b></p> <p>Supports legacy EDMS studies relating to content contained in the USER_CREATED_AIRCRAFT table. This element supports the definition of custom emission factor elements.</p> <ul style="list-style-type: none"> <li><b>time</b>: Time engine operates in a given mode. Valid values: nonnegative, (minutes)</li> <li><b>fuel</b>: Rate of fuel burn in given mode. Valid values: nonnegative, (kg/s)</li> <li><b>CO</b>: Amount of carbon monoxide emitted. Valid values: nonnegative, (kg/s)</li> <li><b>HC</b>: Amount of hydrocarbons emitted. Valid values: nonnegative, (kg/s)</li> <li><b>NOx</b>: Amount of nitrous oxide emitted. Valid values: nonnegative, (kg/s)</li> <li><b>PM</b>: Amount of particulate matter emitted. Valid values: nonnegative, (kg/s)</li> <li><b>SN</b>: Smoke number for the engine mode. Valid values: nonnegative, (kg/s)</li> </ul>
properties	content complex
children	<a href="#">time</a> <a href="#">fuel</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">PM</a> <a href="#">SN</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the USER_CREATED_AIRCRAFT table. This element supports the definition of custom emission factor elements.

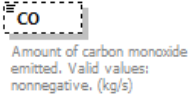
element **engineModeEmissionFactors/time**

diagram	 <p>Time engine operates in a given mode. Valid values: nonnegative, (minutes)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Time engine operates in a given mode. Valid values: nonnegative, (minutes)

element **engineModeEmissionFactors/fuel**

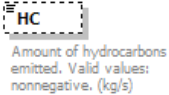
diagram	 <p>Rate of fuel burn in given mode. Valid values: nonnegative, (kg/s)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Rate of fuel burn in given mode. Valid values: nonnegative, (kg/s)

element **engineModeEmissionFactors/CO**

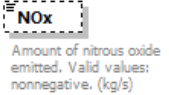
diagram	 <p>Amount of carbon monoxide emitted. Valid values: nonnegative, (kg/s)</p>
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type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of carbon monoxide emitted. Valid values: nonnegative. (kg/s)

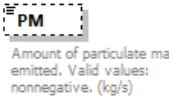
element **engineModeEmissionFactors/HC**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of hydrocarbons emitted. Valid values: nonnegative. (kg/s)

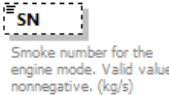
element **engineModeEmissionFactors/NOx**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of nitrous oxide emitted. Valid values: nonnegative. (kg/s)

element **engineModeEmissionFactors/PM**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of particulate matter emitted. Valid values: nonnegative. (kg/s)

element **engineModeEmissionFactors/SN**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Smoke number for the engine mode. Valid values: nonnegative. (kg/s)

element **gate**

diagram	<p>Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modeling, which includes all dispersion analyses.</p> <p><b>name</b> Identifying name of gate.</p> <p><b>elevation</b> Gate's elevation above mean sea level in meters. Valid values: -500 to 5000. (m)</p> <p><b>releaseHeight</b> Height above ground level at which emissions are released into the atmosphere. Valid values: Variable, by airport. (m)</p> <p><b>sigmaY</b> Horizontal dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)</p> <p><b>sigmaZ</b> Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)</p> <p><b>oneOrThreeCoords2DGroupSet</b> Type of coordinate specifying the area.</p> <p><b>pointCoord</b> Choice of a single point coordinate.</p> <p><b>polygonCoords</b> Choice of a 2D polygon.</p>
properties	content complex
children	<a href="#">name</a> <a href="#">elevation</a> <a href="#">releaseHeight</a> <a href="#">sigmaY</a> <a href="#">sigmaZ</a> <a href="#">pointCoord</a> <a href="#">polygonCoords</a>
used by	element <a href="#">gateSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modeling, which includes all dispersion analyses.

element **gate/name**

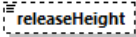
diagram	<p>Identifying name of gate.</p>
type	<a href="#">string40</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name of gate.

element **gate/elevation**


diagram	<p>Gate's elevation above mean sea level in meters. Valid values: -500 to 5000. (m)</p>
type	<a href="#">xs:double</a>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Gate's elevation above mean sea level in meters. Valid values: -500 to 5000. (m)


element **gate/releaseHeight**

diagram	 <p>releaseHeight</p> <p>Height above ground level at which emissions are released into the atmosphere. Valid values: Variable, by airport. (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Height above ground level at which emissions are released into the atmosphere. Valid values: Variable, by airport. (m)

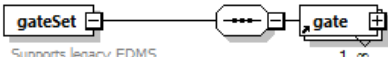
element **gate/sigmaY**

diagram	 <p>sigmaY</p> <p>Horizontal dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Horizontal dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)

element **gate/sigmaZ**

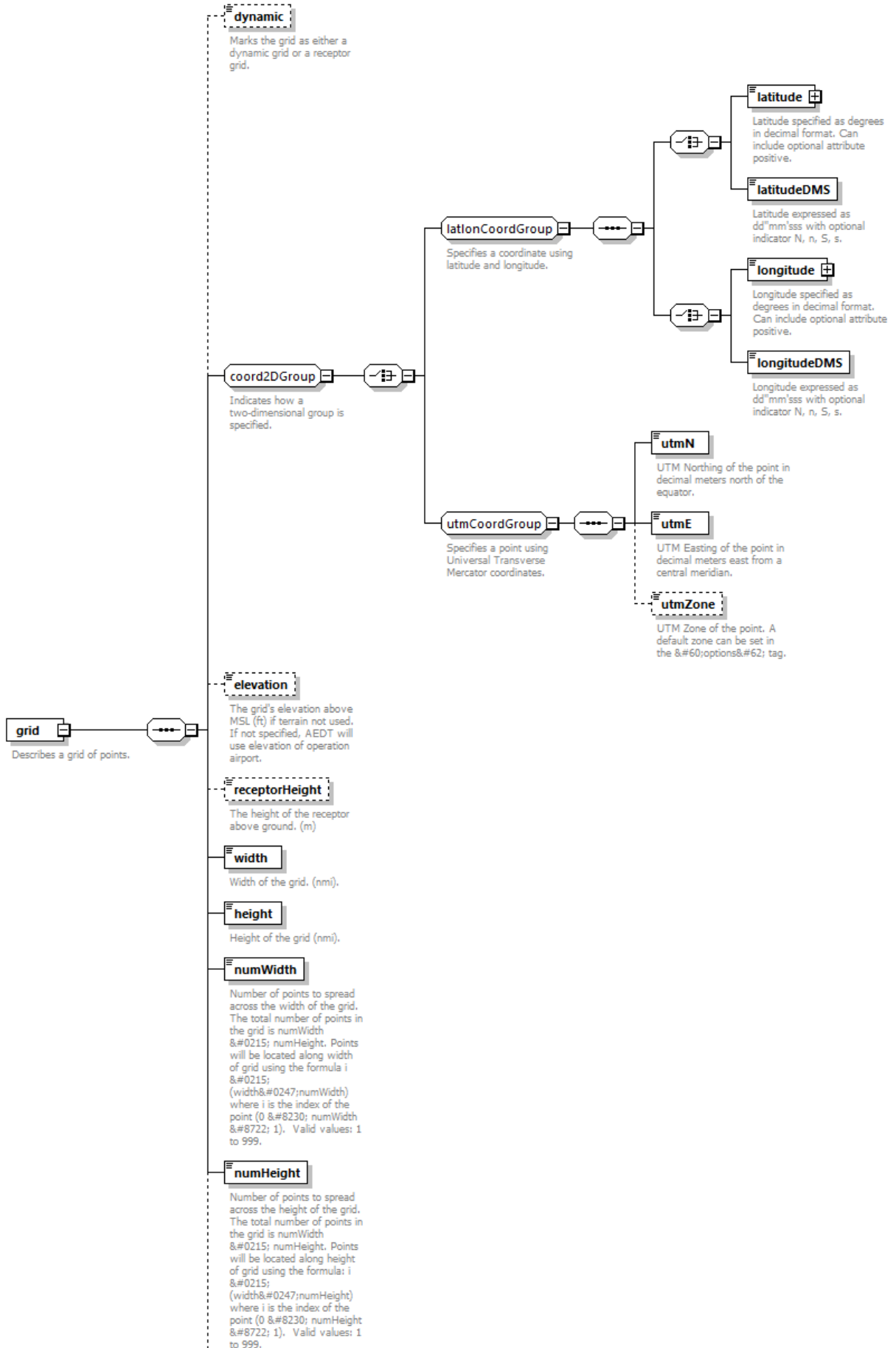
diagram	 <p>sigmaZ</p> <p>Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: Variable, by airport. (m)

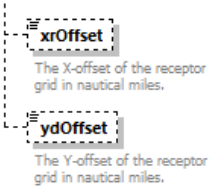
element **gateSet**

diagram	 <p>gateSet</p> <p>Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modelling, which includes all dispersion analyses.</p> <p>1..∞</p> <p>gate</p> <p>Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modelling, which includes all dispersion analyses.</p>
properties	content complex
children	<b>gate</b>
used by	complexType <b>airportLayoutType</b>
annotation	documentation Supports legacy EDMS studies relating to content contained in the GATES table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE,

element **grid**

diagram

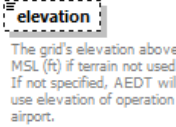


	
properties	content complex
children	<a href="#">dynamic</a> <a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">elevation</a> <a href="#">receptorHeight</a> <a href="#">width</a> <a href="#">height</a> <a href="#">numWidth</a> <a href="#">numHeight</a> <a href="#">xrOffset</a> <a href="#">ydOffset</a>
used by	group <a href="#">receptorGroup</a>
annotation	documentation Describes a grid of points.

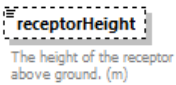
#### element **grid/dynamic**

diagram	
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Marks the grid as either a dynamic grid or a receptor grid.

#### element **grid/elevation**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The grid's elevation above MSL (ft) if terrain not used. If not specified, AEDT will use elevation of operation airport.

#### element **grid/receptorHeight**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The height of the receptor above ground. (m)

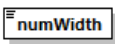
#### element **grid/width**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Width of the grid. (nmi).

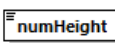
element **grid/height**

diagram	 <p>Height of the grid (nmi).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Height of the grid (nmi).

element **grid/numWidth**

diagram	 <p>Number of points to spread across the width of the grid. The total number of points in the grid is numWidth &amp;#0215; numHeight. Points will be located along width of grid using the formula <math>i \times \text{numHeight} + (\text{width} - 1) \times \text{numWidth}</math> where <math>i</math> is the index of the point (0 &amp;#8230; numWidth &amp;#8722; 1). Valid values: 1 to 999.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Number of points to spread across the width of the grid. The total number of points in the grid is numWidth &#0215; numHeight. Points will be located along width of grid using the formula $i \times \text{numHeight} + (\text{width} - 1) \times \text{numWidth}$ where $i$ is the index of the point (0 &#8230; numWidth &#8722; 1). Valid values: 1 to 999.


element **grid/numHeight**

diagram	 <p>Number of points to spread across the height of the grid. The total number of points in the grid is numWidth &amp;#0215; numHeight. Points will be located along height of grid using the formula: <math>i \times \text{numWidth} + (\text{height} - 1)</math> where <math>i</math> is the index of the point (0 &amp;#8230; numHeight &amp;#8722; 1). Valid values: 1 to 999.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Number of points to spread across the height of the grid. The total number of points in the grid is numWidth &#0215; numHeight. Points will be located along height of grid using the formula: $i \times \text{numWidth} + (\text{height} - 1)$ where $i$ is the index of the point (0 &#8230; numHeight &#8722; 1). Valid values: 1 to 999.

element **grid/xrOffset**

diagram	 <p>The X-offset of the receptor grid in nautical miles.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation The X-offset of the receptor grid in nautical miles.

element **grid/ydOffset**

diagram	 <p>The Y-offset of the receptor grid in nautical miles.</p>
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type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation The Y-offset of the receptor grid in nautical miles.

element **groundSupportEquipmentGateAssignment**

diagram	
properties	content complex
children	<b>gate</b> <b>fractionAssigned</b>
used by	element <b>groundSupportEquipmentGateAssignmentSet</b>
annotation	documentation Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.

element **groundSupportEquipmentGateAssignment/gate**

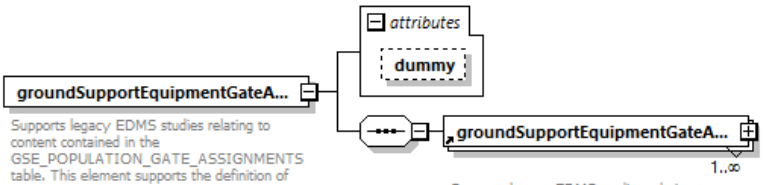
diagram	
type	<b>string20</b>
properties	content simple
used by	element <b>gateSet</b>
facets	Kind Value Annotation minLength 0 maxLength 20
annotation	documentation Gate to which GSE is assigned.

element **groundSupportEquipmentGateAssignment/fractionAssigned**

diagram	
type	<b>doubleInclusive1</b>
properties	content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation Fraction of GSE assigned to this gate. Must sum to 1.0 for all gate assignments for the GSE. Valid values: 0.0 to 1.0.

element **groundSupportEquipmentGateAssignmentSet**

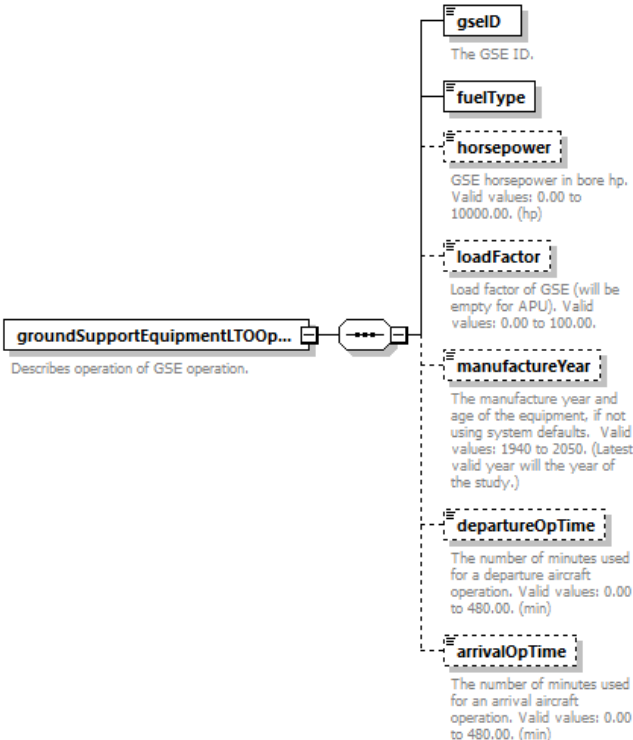
diagram	
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	 <p><b>groundSupportEquipmentGateAssignmentSet</b> Supports legacy EDMS studies relating to content contained in the GSE_POPULATION_GATE_ASSIGNMENTS table. This element supports the definition of gate to ground support equipment assignments.</p> <p><b>groundSupportEquipmentGateAssignment</b> Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.</p>												
properties	content complex												
children	<b>groundSupportEquipmentGateAssignment</b>												
used by	element <b>groundSupportEquipmentPopulationOperation</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the GSE_POPULATION_GATE_ASSIGNMENTS table. This element supports the definition of gate to ground support equipment assignments.												

attribute **groundSupportEquipmentGateAssignmentSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **groundSupportEquipmentLTOOperation**


diagram	 <p><b>groundSupportEquipmentLTOOperation</b> Describes operation of GSE operation.</p> <p><b>gseID</b> The GSE ID.</p> <p><b>fuelType</b></p> <p><b>horsepower</b> GSE horsepower in bore hp. Valid values: 0.00 to 10000.00. (hp)</p> <p><b>loadFactor</b> Load factor of GSE (will be empty for APU). Valid values: 0.00 to 100.00.</p> <p><b>manufactureYear</b> The manufacture year and age of the equipment, if not using system defaults. Valid values: 1940 to 2050. (Latest valid year will be the year of the study.)</p> <p><b>departureOpTime</b> The number of minutes used for a departure aircraft operation. Valid values: 0.00 to 480.00. (min)</p> <p><b>arrivalOpTime</b> The number of minutes used for an arrival aircraft operation. Valid values: 0.00 to 480.00. (min)</p>
properties	content complex
children	<b>gseID fuelType horsepower loadFactor manufactureYear departureOpTime arrivalOpTime</b>
used by	element <b>groundSupportEquipmentLTOOperationSet</b>
annotation	documentation Describes operation of GSE operation.

element **groundSupportEquipmentLTOOperation/gseID**

diagram	 <p><b>gseID</b> The GSE ID.</p>
type	<b>xs:int</b>

properties	content simple
annotation	documentation The GSE ID.

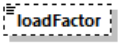
element **groundSupportEquipmentLTOOperation/fuelType**

diagram	
type	<a href="#">fuelType</a>
properties	content simple
facets	Kind Value Annotation pattern G Gasoline D Diesel C Compressed Natural Gas L Liquefied Petroleum Gas E Electric

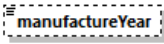
element **groundSupportEquipmentLTOOperation/horsepower**

diagram	 GSE horsepower in bore hp. Valid values: 0.00 to 10000.00. (hp)
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation GSE horsepower in bore hp. Valid values: 0.00 to 10000.00. (hp)

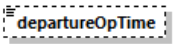
element **groundSupportEquipmentLTOOperation/loadFactor**

diagram	 Load factor of GSE (will be empty for APU). Valid values: 0.00 to 100.00.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Load factor of GSE (will be empty for APU). Valid values: 0.00 to 100.00.

element **groundSupportEquipmentLTOOperation/manufactureYear**


diagram	 The manufacture year and age of the equipment, if not using system defaults. Valid values: 1940 to 2050. (Latest valid year will the year of the study.)
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The manufacture year and age of the equipment, if not using system defaults. Valid values: 1940 to 2050. (Latest valid year will the year of the study.)

element **groundSupportEquipmentLTOOperation/departureOpTime**

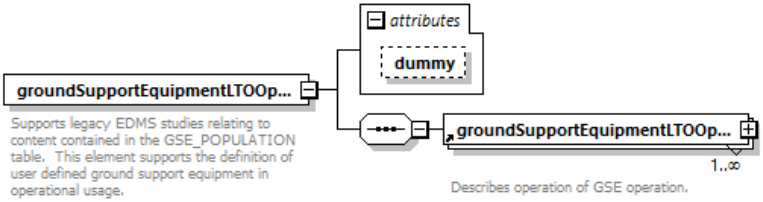
diagram	 The number of minutes used for a departure aircraft operation. Valid values: 0.00 to 480.00. (min)
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1

	content simple
annotation	documentation The number of minutes used for a departure aircraft operation. Valid values: 0.00 to 480.00. (min)

element **groundSupportEquipmentLTOOperation/arrivalOpTime**

diagram	 <p>The number of minutes used for an arrival aircraft operation. Valid values: 0.00 to 480.00. (min)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The number of minutes used for an arrival aircraft operation. Valid values: 0.00 to 480.00. (min)

element **groundSupportEquipmentLTOOperationSet**

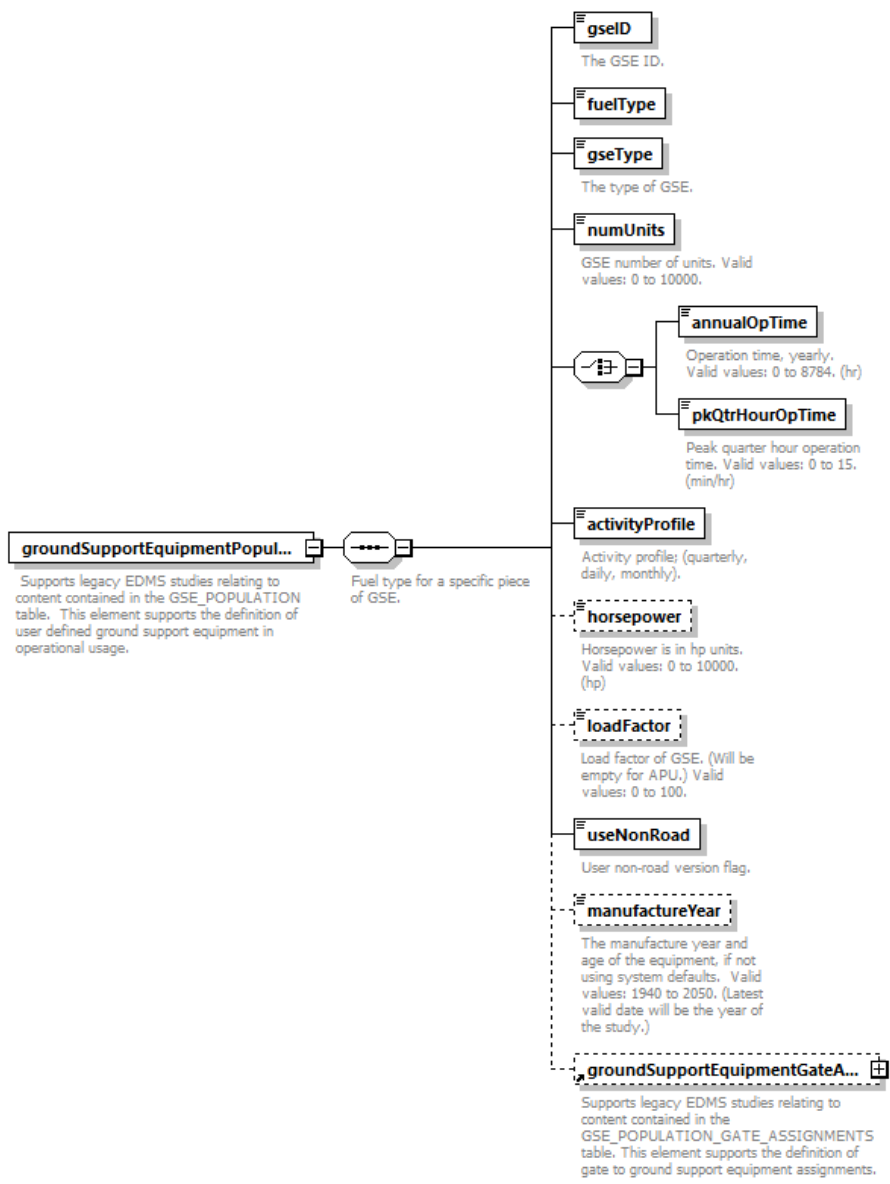
diagram	 <p>Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.</p> <p>Describes operation of GSE operation.</p>												
properties	content complex												
children	<a href="#">groundSupportEquipmentLTOOperation</a>												
used by	complexType <a href="#">aircraftType</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.												

attribute **groundSupportEquipmentLTOOperationSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **groundSupportEquipmentPopulationOperation**

diagram	
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properties	content complex
children	<a href="#">gseID</a> <a href="#">fuelType</a> <a href="#">gseType</a> <a href="#">numUnits</a> <a href="#">annualOpTime</a> <a href="#">pkQtrHourOpTime</a> <a href="#">activityProfile</a> <a href="#">horsepower</a> <a href="#">loadFactor</a> <a href="#">useNonRoad</a> <a href="#">manufactureYear</a> <a href="#">groundSupportEquipmentGateAssignmentSet</a>
used by	element <a href="#">groundSupportEquipmentPopulationOperationSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.

element [groundSupportEquipmentPopulationOperation/gseID](#)


diagram	
type	<b>xs:int</b>
properties	content simple
annotation	documentation The GSE ID.

element [groundSupportEquipmentPopulationOperation/fuelType](#)

diagram	
type	<a href="#">fuelType</a>

properties	content simple	
facets	Kind Value	Annotation
	pattern G(Gasoline)D(Diesel)C(Compressed Natural Gas)L(Liquefied Petroleum Gas)E(Electric)	

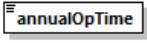
element **groundSupportEquipmentPopulationOperation/gseType**

diagram	 <p>The type of GSE.</p>	
type	<b>xs:string</b>	
properties	content simple	
annotation	documentation The type of GSE.	

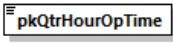
element **groundSupportEquipmentPopulationOperation/numUnits**

diagram	 <p>GSE number of units. Valid values: 0 to 10000.</p>	
type	<b>xs:double</b>	
properties	content simple	
annotation	documentation GSE number of units. Valid values: 0 to 10000.	


element **groundSupportEquipmentPopulationOperation/annualOpTime**

diagram	 <p>Operation time, yearly. Valid values: 0 to 8784. (hr)</p>	
type	<b>xs:double</b>	
properties	content simple	
annotation	documentation Operation time, yearly. Valid values: 0 to 8784. (hr)	

element **groundSupportEquipmentPopulationOperation/pkQtrHourOpTime**

diagram	 <p>Peak quarter hour operation time. Valid values: 0 to 15. (min/hr)</p>	
type	<b>xs:double</b>	
properties	content simple	
annotation	documentation Peak quarter hour operation time. Valid values: 0 to 15. (min/hr)	

element **groundSupportEquipmentPopulationOperation/activityProfile**

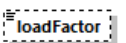
diagram	 <p>Activity profile; (quarterly, daily, monthly).</p>	
type	<b>string40</b>	
properties	content simple	
used by	element <b>activityProfileSet</b>	
facets	Kind Value Annotation	
	minLength 0	
	maxLength 40	
annotation	documentation Activity profile; (quarterly, daily, monthly).	

element **groundSupportEquipmentPopulationOperation/horsepower**

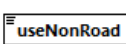
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diagram	 <p><b>horsepower</b></p> <p>Horsepower is in hp units. Valid values: 0 to 10000. (hp)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Horsepower is in hp units. Valid values: 0 to 10000. (hp)

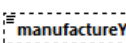
element **groundSupportEquipmentPopulationOperation/loadFactor**

diagram	 <p><b>loadFactor</b></p> <p>Load factor of GSE. (Will be empty for APU.) Valid values: 0 to 100.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Load factor of GSE. (Will be empty for APU.) Valid values: 0 to 100.

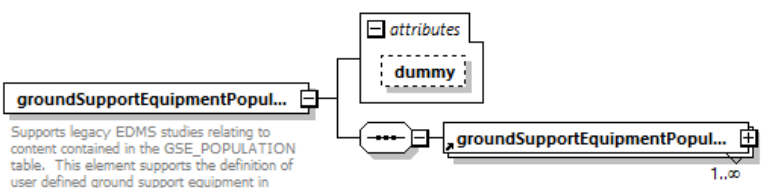
element **groundSupportEquipmentPopulationOperation/useNonRoad**

diagram	 <p><b>useNonRoad</b></p> <p>User non-road version flag.</p>
type	<b>xs:boolean</b>
properties	content simple
annotation	documentation User non-road version flag.

element **groundSupportEquipmentPopulationOperation/manufactureYear**

diagram	 <p><b>manufactureYear</b></p> <p>The manufacture year and age of the equipment, if not using system defaults. Valid values: 1940 to 2050. (Latest valid date will be the year of the study.)</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The manufacture year and age of the equipment, if not using system defaults. Valid values: 1940 to 2050. (Latest valid date will be the year of the study.)

element **groundSupportEquipmentPopulationOperationSet**

diagram	 <p><b>groundSupportEquipmentPopul...</b></p> <p>Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.</p> <p><b>attributes</b></p> <p><b>dummy</b></p> <p><b>groundSupportEquipmentPopul...</b></p> <p>Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.</p> <p>1..∞</p>
properties	content complex
children	<b>groundSupportEquipmentPopulationOperation</b>
used by	group <b>airportActivityGroup</b>

attributes	Name	Type	Use	Default	Fixed	Annotation
	<u>dummy</u>	<b>xs:int</b>	optional			
annotation	documentation Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.					

attribute **groundSupportEquipmentPopulationOperationSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **monthlyProfile**

diagram	<p><b>monthlyProfile</b> Supports legacy EDMS studies relating to content contained in the MONTHLY_PROFILES. This element supports the definition of temporal factors on a monthly operational basis.</p> <p><b>profileName</b> Name of profile.</p> <p><b>temporalFactorJanuary</b> Factor applied to activity for operations during January. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorFebruary</b> Factor applied to activity for operations during February. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorMarch</b> Factor applied to activity for operations during March. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorApril</b> Factor applied to activity for operations during April. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorMay</b> Factor applied to activity for operations during May. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorJune</b> Factor applied to activity for operations during June. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorJuly</b> Factor applied to activity for operations during July. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorAugust</b> Factor applied to activity for operations during August. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorSeptember</b> Factor applied to activity for operations during September. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorOctober</b> Factor applied to activity for operations during October. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorNovember</b> Factor applied to activity for operations during November. Valid values: 0.0000 to 1.0000.</p> <p><b>temporalFactorDecember</b> Factor applied to activity for operations during December. Valid values: 0.0000 to 1.0000.</p>
properties	content complex
children	<b>profileName</b> <b>temporalFactorJanuary</b> <b>temporalFactorFebruary</b> <b>temporalFactorMarch</b> <b>temporalFactorApril</b> <b>temporalFactorMay</b> <b>temporalFactorJune</b> <b>temporalFactorJuly</b> <b>temporalFactorAugust</b> <b>temporalFactorSeptember</b> <b>temporalFactorOctober</b> <b>temporalFactorNovember</b> <b>temporalFactorDecember</b>

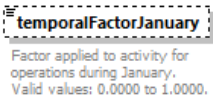


used by	element <a href="#">monthlyProfileSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the MONTHLY_PROFILES. This element supports the definition of temporal factors on a monthly operational basis.

element **monthlyProfile/profileName**

diagram	
type	<a href="#">string100</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Name of profile.

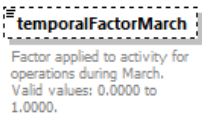
element **monthlyProfile/temporalFactorJanuary**

diagram	
type	<a href="#">doubleMin0</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during January. Valid values: 0.0000 to 1.0000.


element **monthlyProfile/temporalFactorFebruary**

diagram	
type	<a href="#">doubleMin0</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during February. Valid values: 0.0000 to 1.0000.


element **monthlyProfile/temporalFactorMarch**

diagram	
type	<a href="#">doubleMin0</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during March. Valid values: 0.0000 to 1.0000.


element **monthlyProfile/temporalFactorApril**

diagram	
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during April. Valid values: 0.0000 to 1.0000.


element **monthlyProfile/temporalFactorMay**

diagram	
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during May. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorJune**

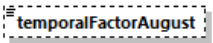
diagram	
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during June. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorJuly**

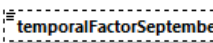
diagram	
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during July. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorAugust**

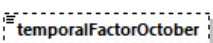
diagram	
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diagram	 <p>Factor applied to activity for operations during August. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during August. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorSeptember**

diagram	 <p>Factor applied to activity for operations during September. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during September. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorOctober**

diagram	 <p>Factor applied to activity for operations during October. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during October. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorNovember**

diagram	 <p>Factor applied to activity for operations during November. Valid values: 0.0000 to 1.0000.</p>
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during November. Valid values: 0.0000 to 1.0000.

element **monthlyProfile/temporalFactorDecember**

diagram	
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	<div style="border: 1px dashed black; padding: 2px; display: inline-block;"> <b>temporalFactorDecember</b> </div> Factor applied to activity for operations during December. Valid values: 0.0000 to 1.0000.
type	<b>doubleMin0</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0
annotation	documentation Factor applied to activity for operations during December. Valid values: 0.0000 to 1.0000.

element **monthlyProfileSet**

diagram	<p>monthlyProfileSet</p> <p>Supports the definition and use of MONTHLY_PROFILES for the monthly variation of operations.</p> <p>attributes</p> <p>dummy</p> <p>monthlyProfile</p> <p>0..∞</p> <p>Supports legacy EDMS studies relating to content contained in the MONTHLY_PROFILES. This element supports the definition of temporal factors on a monthly operational basis.</p>												
properties	content complex												
children	<b>monthlyProfile</b>												
used by	element <b>operationalProfileSet</b> complexType <b>airportLayoutType</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Supports the definition and use of MONTHLY_PROFILES for the monthly variation of operations.												

attribute **monthlyProfileSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **operation**

diagram	<p>id</p> <p>User specified identifier for the operation. One purpose served by this field is to allow the user to tie the AEDT AirOperations back to some original data source by setting the id field to an identifying identifier from the original data source. Another purpose is to set each ID to a project-specific value for each AirOperation. The ID field is used in several AEDT lists and reports that print out the AirOperations. In addition, the Impact Evaluation dialog uses the ID as its main method of distinguishing AirOperations when allowing the user to pick and choose operations to be moved to alternative flight tracks. If, however, the user has no outside data sources that need to be tied to the AEDT AirOperations, or if each AirOperation is identical in the sense that no specific AirOperation is more valuable than another or that there will be no intent to distinguish one AirOperation over another, then the suggested approach is to use</p>
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suggested approach is to just set the UserID field to unique number or set of characters. This will allow the user to distinguish the AirOperations if the need ever arises. Nevertheless, one can leave all the id fields empty or non-unique set of ids; however, in doing so, the user will be forced to use other identifying fields of the AirOperation if they should ever want to distinguish between AirOperations.

**aircraftType** 

Type of aircraft in the flight.

**cruiseAltitude**

Override aircraft cruise altitude for this operation. (ft)

**numOperations**

Number of operations comprising this operation.

**opType**

**carrier**

Carrier flying the flight. Not fully supported in AEDT.

**flightNumber**

Flight number. Not fully supported in AEDT.

**tailNumber**


Flight's tail number. Not fully supported in AEDT.

**userType**

User-defined aircraft type. Cannot be an aircraftType. Not fully supported in AEDT.

**userParam**

User-defined parameter associated with the operation. Not fully supported in AEDT.

**departureAirport** 

Departure airport's ICAO code. Required if the operation is used with a <code>&lt;flight&gt;</code> or <code>&lt;operation&gt;</code> element. Also required if used with a <code>&lt;trackOpSet&gt;</code> modeling departures, circuits, runups, or touch-and-goes.

**departureRunway**


Airport's departure runway ID. Required if the operation is used with a <code>&lt;flight&gt;</code> or a <code>&lt;trackOpSet&gt;</code> modeling departures, circuits, runups, or touch-and-goes.

**departureGate**

Airport's departure gate. Not fully supported in AEDT.

**departureApuTime**

Number of minutes the auxiliary power unit is attached to a departing aircraft. (min)

**arrivalAirport** 

Arrival airport's ICAO code. Required if the operation is used with a <code>&lt;flight&gt;</code> or <code>&lt;operation&gt;</code> element. Also required if used with a <code>&lt;trackOpSet&gt;</code> modeling arrivals, circuits, runups, or touch-and-goes.

**arrivalRunway**

Airport's arrival runway ID. Required if the operation is

## operation

Describes an aircraft flight operation.

used with a `<trackOpSet>` or a `<trackOpSet>`; modeling arrivals, circuits, runups, or touch-and-goes.

### arrivalGate

Airport's arrival gate. Not fully supported in AEDT.

### arrivalApuTime

Number of minutes the auxiliary power unit is attached to an arrival aircraft. (min)

### offTime

Wheels-off time. Required for any departure or runup, circuit, runup, or touch-and-go operation.

### onTime

Wheels on time. Required for any arrival operation.

### enrouteStartTime

Time aircraft reaches the first en route node. Required for en route or overflight flights. Not fully supported in AEDT.

### outTime

Time aircraft pushed back from the gate for a departure. When present,  $\text{taxiOutDuration} = (\text{offTime} - \text{outTime})$ . Not fully supported in AEDT.

### taxiOutDuration

Number of seconds during taxi-out. Required for emissions modeling, optional for noise modeling. Not fully supported in AEDT. (s)

### inTime

Time aircraft arrives at arrival gate. When present,  $\text{taxiInDuration} = (\text{onTime} - \text{inTime})$ .

### taxiInDuration

Number of seconds during taxi-in. Required for emissions modeling, optional for noise modeling. (s)

### activityProfile

References an existing hourly, daily, or monthly profile.

### saeProfile

Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when the override is unambiguously arrival or departure.

### saeProfiles

Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when it is necessary to specify both the arrival and departure profiles.

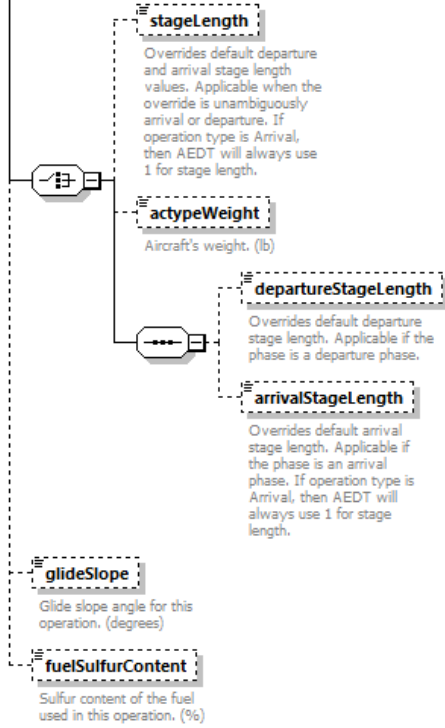
### badaProfile

Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when the override is unambiguously arrival or departure.

### badaProfiles

Overrides default profile

assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when it is necessary to specify both the arrival and departure profiles.



properties	content complex
children	<b><a href="#">id</a></b> <b><a href="#">aircraftType</a></b> <b><a href="#">cruiseAltitude</a></b> <b><a href="#">numOperations</a></b> <b><a href="#">opType</a></b> <b><a href="#">carrier</a></b> <b><a href="#">flightNumber</a></b> <b><a href="#">tailNumber</a></b> <b><a href="#">userType</a></b> <b><a href="#">userParam</a></b> <b><a href="#">departureAirport</a></b> <b><a href="#">departureRunway</a></b> <b><a href="#">departureGate</a></b> <b><a href="#">departureApuTime</a></b> <b><a href="#">arrivalAirport</a></b> <b><a href="#">arrivalRunway</a></b> <b><a href="#">arrivalGate</a></b> <b><a href="#">arrivalApuTime</a></b> <b><a href="#">offTime</a></b> <b><a href="#">onTime</a></b> <b><a href="#">enrouteStartTime</a></b> <b><a href="#">outTime</a></b> <b><a href="#">taxiOutDuration</a></b> <b><a href="#">inTime</a></b> <b><a href="#">taxiInDuration</a></b> <b><a href="#">activityProfile</a></b> <b><a href="#">saeProfile</a></b> <b><a href="#">saeProfiles</a></b> <b><a href="#">badaProfile</a></b> <b><a href="#">badaProfiles</a></b> <b><a href="#">stageLength</a></b> <b><a href="#">actypeWeight</a></b> <b><a href="#">departureStageLength</a></b> <b><a href="#">arrivalStageLength</a></b> <b><a href="#">glideSlope</a></b> <b><a href="#">fuelSulfurContent</a></b>
used by	elements <b><a href="#">AsifXml</a></b> <b><a href="#">case</a></b> <b><a href="#">operations</a></b>
annotation	documentation Describes an aircraft flight operation.

element **operation/id**

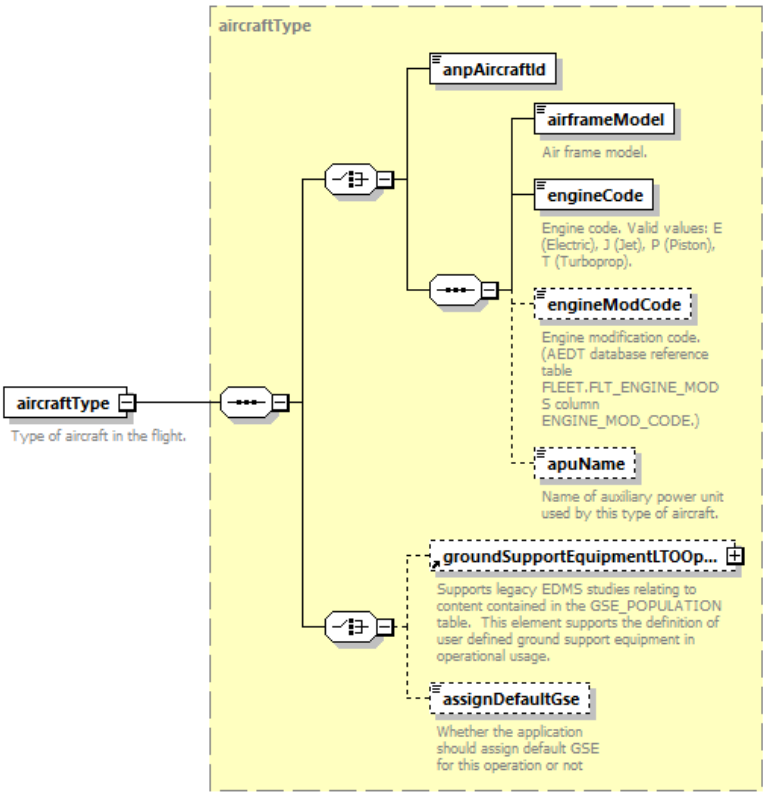
diagram	
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	<div style="border: 1px solid black; padding: 2px;">id</div> <p>User specified identifier for the operation. One purpose served by this field is to allow the user to tie the AEDT AirOperations back to some original data source by setting the id field to an identifying identifier from the original data source. Another purpose is to set each ID to a project-specific value for each AirOperation. The ID field is used in several AEDT lists and reports that print out the AirOperations. In addition, the Impact Evaluation dialog uses the ID as its main method of distinguishing AirOperations when allowing the user to pick and choose operations to be moved to alternative flight tracks. If, however, the user has no outside data sources that need to be tied to the AEDT AirOperations, or if each AirOperation is identical in the sense that no specific AirOperation is more valuable than another or that there will be no intent to distinguish one AirOperation over another, then the suggested approach is to just set the UserID field to unique number or set of characters. This will allow the user to distinguish the AirOperations if the need ever arises. Nevertheless, one can leave all the id fields empty or non-unique set of ids; however, in doing so, the user will be forced to use other identifying fields of the AirOperation if they should ever want to distinguish between AirOperations.</p>
type	<b>string16</b>
properties	content simple
facets	Kind        Value Annotation minLength 0 maxLength 16
annotation	documentation User specified identifier for the operation. One purpose served by this field is to allow the user to tie the AEDT AirOperations back to some original data source by setting the id field to an identifying identifier from the original data source. Another purpose is to set each ID to a project-specific value for each AirOperation. The ID field is used in several AEDT lists and reports that print out the AirOperations. In addition, the Impact Evaluation dialog uses the ID as its main method of distinguishing AirOperations when allowing the user to pick and choose operations to be moved to alternative flight tracks. If, however, the user has no outside data sources that need to be tied to the AEDT AirOperations, or if each AirOperation is identical in the sense that no specific AirOperation is more valuable than another or that there will be no intent to distinguish one AirOperation over another, then the suggested approach is to just set the UserID field to unique number or set of characters. This will allow the user to distinguish the AirOperations if the need ever arises. Nevertheless, one can leave all the id fields empty or non-unique set of ids; however, in doing so, the user will be forced to use other identifying fields of the AirOperation if they should ever want to distinguish between AirOperations.


element **operation/aircraftType**

diagram	
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type	<b>aircraftType</b>
properties	content complex
children	<a href="#">anpAircraftId</a> <a href="#">airframeModel</a> <a href="#">engineCode</a> <a href="#">engineModCode</a> <a href="#">apuName</a> <a href="#">groundSupportEquipmentLTOOperationSet</a> <a href="#">assignDefaultGse</a>
annotation	documentation Type of aircraft in the flight.

#### element **operation/cruiseAltitude**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Override aircraft cruise altitude for this operation. (ft)

#### element **operation/numOperations**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Number of operations comprising this operation.

#### element **operation/opType**

diagram	
type	<b>opType</b>
properties	minOcc 0 maxOcc 1

	content simple	
facets	Kind Value pattern A Arrival D Departure V Overflight F Circuit T TouchAndGo R Runup W RunwayToRunway L LTO LandingTakoff X Taxi	Annotation

element **operation/carrier**

diagram	 Carrier flying the flight. Not fully supported in AEDT.
type	<b>string4</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 4
annotation	documentation Carrier flying the flight. Not fully supported in AEDT.

element **operation/flightNumber**

diagram	 Flight number. Not fully supported in AEDT.
type	<b>string16</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation Flight number. Not fully supported in AEDT.

element **operation/tailNumber**

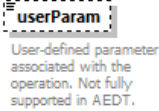
diagram	 Flight's tail number. Not fully supported in AEDT.
type	<b>string8</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Flight's tail number. Not fully supported in AEDT.

element **operation/userType**

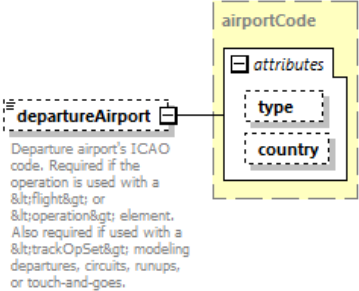
diagram	 User-defined aircraft type. Cannot be an aircraftType. Not fully supported in AEDT.
type	<b>string12</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 12

annotation	documentation User-defined aircraft type. Cannot be an aircraftType. Not fully supported in AEDT.
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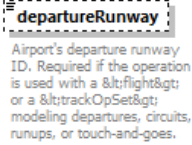
element **operation/userParam**

diagram	
type	<b>string16</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation User-defined parameter associated with the operation. Not fully supported in AEDT.


element **operation/departureAirport**

diagram																			
type	<b>airportCode</b>																		
properties	minOcc 0 maxOcc 1 content complex																		
facets	Kind Value Annotation minLength 0 maxLength 4																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><b>airportCodeType</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> <tr> <td><a href="#">country</a></td> <td><b>string3</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<b>airportCodeType</b>	optional	ANY			<a href="#">country</a>	<b>string3</b>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">type</a>	<b>airportCodeType</b>	optional	ANY																
<a href="#">country</a>	<b>string3</b>	optional	ANY																
annotation	documentation Departure airport's ICAO code. Required if the operation is used with a &lt;flight&gt; or &lt;operation&gt; element. Also required if used with a &lt;trackOpSet&gt; modeling departures, circuits, runups, or touch-and-goes.																		

element **operation/departureRunway**

diagram	
type	<b>string8</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Airport's departure runway ID. Required if the operation is used with a &lt;flight&gt; or a &lt;trackOpSet&gt; modeling departures, circuits, runups, or touch-and-goes.

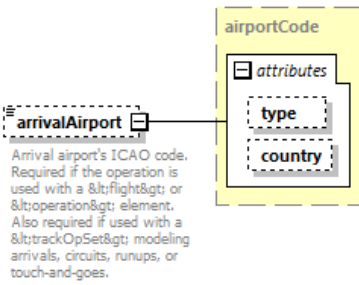
element **operation/departureGate**

diagram	 <p>departureGate</p> <p>Airport's departure gate. Not fully supported in AEDT.</p>
type	<b>string40</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Airport's departure gate. Not fully supported in AEDT.

element **operation/departureApuTime**

diagram	 <p>departureApuTime</p> <p>Number of minutes the auxiliary power unit is attached to a departing aircraft. (min)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of minutes the auxiliary power unit is attached to a departing aircraft. (min)

element **operation/arrivalAirport**


diagram	 <p>arrivalAirport</p> <p>Arrival airport's ICAO code. Required if the operation is used with a &lt;flight&gt; or &lt;operation&gt; element. Also required if used with a &lt;trackOpSet&gt; modeling arrivals, circuits, runups, or touch-and-goes.</p>																		
type	<b>airportCode</b>																		
properties	minOcc 0 maxOcc 1 content complex																		
facets	Kind Value Annotation minLength 0 maxLength 4																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>type</td> <td><b>airportCodeType</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> <tr> <td>country</td> <td><b>string3</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	type	<b>airportCodeType</b>	optional	ANY			country	<b>string3</b>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation														
type	<b>airportCodeType</b>	optional	ANY																
country	<b>string3</b>	optional	ANY																
annotation	documentation Arrival airport's ICAO code. Required if the operation is used with a <flight> or <operation> element. Also required if used with a <trackOpSet> modeling arrivals, circuits, runups, or touch-and-goes.																		

element **operation/arrivalRunway**

diagram	 <p>arrivalRunway</p> <p>Airport's arrival runway ID. Required if the operation is used with a &lt;flight&gt; or a &lt;trackOpSet&gt; modeling arrivals, circuits, runups, or touch-and-goes.</p>
type	<b>string8</b>

properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Airport's arrival runway ID. Required if the operation is used with a <flight> or a <trackOpSet>; modeling arrivals, circuits, runups, or touch-and-goes.

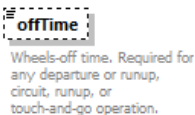
element **operation/arrivalGate**

diagram	
type	<b>string40</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Airport's arrival gate. Not fully supported in AEDT.

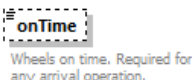
element **operation/arrivalApuTime**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of minutes the auxiliary power unit is attached to an arrival aircraft. (min)


element **operation/offTime**

diagram	
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Wheels-off time. Required for any departure or runup, circuit, runup, or touch-and-go operation.


element **operation/onTime**

diagram	
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Wheels on time. Required for any arrival operation.


element **operation/enrouteStartTime**

diagram	 <p>Time aircraft reaches the first en route node. Required for en route or overflight flights. Not fully supported in AEDT.</p>
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Time aircraft reaches the first en route node. Required for en route or overflight flights. Not fully supported in AEDT


element **operation/outTime**

diagram	 <p>Time aircraft pushed back from the gate for a departure. When present, taxiOutDuration = (offTime &amp;#8722; outTime). Not fully supported in AEDT.</p>
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Time aircraft pushed back from the gate for a departure. When present, taxiOutDuration = (offTime &#8722; outTime). Not fully supported in AEDT.

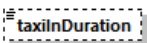
element **operation/taxiOutDuration**

diagram	 <p>Number of seconds during taxi-out. Required for emissions modeling, optional for noise modeling. Not fully supported in AEDT. (s)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of seconds during taxi-out. Required for emissions modeling, optional for noise modeling. Not fully supported in AEDT. (s)

element **operation/inTime**


diagram	 <p>Time aircraft arrives at arrival gate. When present, taxiInDuration = (onTime - inTime).</p>
type	<b>xs:dateTime</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Time aircraft arrives at arrival gate. When present, taxiInDuration = (onTime - inTime).

element **operation/taxiInDuration**

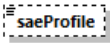
diagram	 <p>Number of seconds during taxi-in. Required for emissions modeling, optional for noise modeling. (s)</p>
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of seconds during taxi-in. Required for emissions modeling, optional for noise modeling. (s)

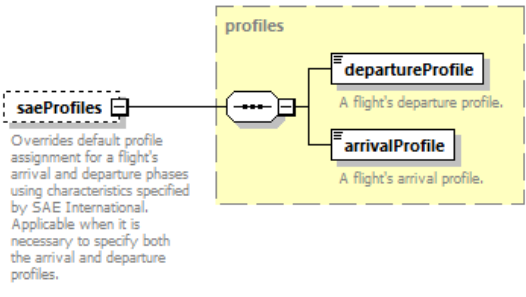
element **operation/activityProfile**

diagram	 <p><b>activityProfile</b> References an existing hourly, daily, or monthly profile.</p>
type	<b>string100</b>
properties	minOcc 0 maxOcc 1 content simple
used by	element <b>activityProfileSet</b>
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation References an existing hourly, daily, or monthly profile.


element **operation/saeProfile**

diagram	 <p><b>saeProfile</b> Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when the override is unambiguously arrival or departure.</p>
type	<b>profileType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when the override is unambiguously arrival or departure.

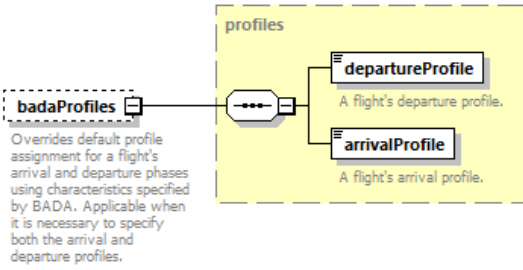
element **operation/saeProfiles**

diagram	 <p><b>saeProfiles</b> Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when it is necessary to specify both the arrival and departure profiles.</p> <p>The diagram shows a dashed box labeled 'saeProfiles' connected to a larger dashed box labeled 'profiles'. Inside the 'profiles' box, there are two sub-elements: 'departureProfile' (A flight's departure profile.) and 'arrivalProfile' (A flight's arrival profile.).</p>
type	<b>profiles</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>departureProfile arrivalProfile</b>
annotation	documentation Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by SAE International. Applicable when it is necessary to specify both the arrival and departure profiles.


element **operation/badaProfile**

diagram	 <p>Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when the override is unambiguously arrival or departure.</p>
type	<b>profileType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when the override is unambiguously arrival or departure.

element **operation/badaProfiles**

diagram	 <p>Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when it is necessary to specify both the arrival and departure profiles.</p>
type	<b>profiles</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>departureProfile</b> <b>arrivalProfile</b>
annotation	documentation Overrides default profile assignment for a flight's arrival and departure phases using characteristics specified by BADA. Applicable when it is necessary to specify both the arrival and departure profiles.

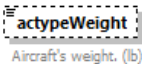
element **operation/stageLength**

diagram	 <p>Overrides default departure and arrival stage length values. Applicable when the override is unambiguously arrival or departure. If operation type is Arrival, then AEDT will always use 1 for stage length.</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Overrides default departure and arrival stage length values. Applicable when the override is unambiguously arrival or departure. If operation type is Arrival, then AEDT will always use 1 for stage length.


element **operation/actypeWeight**

diagram	
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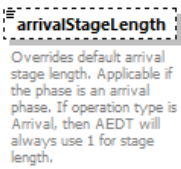


	 <p><b>actypeWeight</b> Aircraft's weight. (lb)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Aircraft's weight. (lb)

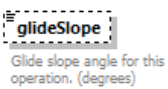
element **operation/departureStageLength**

diagram	 <p><b>departureStageLength</b> Overrides default departure stage length. Applicable if the phase is a departure phase.</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Overrides default departure stage length. Applicable if the phase is a departure phase.

element **operation/arrivalStageLength**

diagram	 <p><b>arrivalStageLength</b> Overrides default arrival stage length. Applicable if the phase is an arrival phase. If operation type is Arrival, then AEDT will always use 1 for stage length.</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Overrides default arrival stage length. Applicable if the phase is an arrival phase. If operation type is Arrival, then AEDT will always use 1 for stage length.

element **operation/glideSlope**

diagram	 <p><b>glideSlope</b> Glide slope angle for this operation. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Glide slope angle for this operation. (degrees)

element **operation/fuelSulfurContent**

diagram	 <p><b>fuelSulfurContent</b> Sulfur content of the fuel used in this operation. (%)</p>
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Sulfur content of the fuel used in this operation. (%)

element **operationalProfileSet**

diagram	<p><b>quarterHourlyProfileSet</b> Supports the definition and use of QUARTER_HOURLY_PROFILE S for the quarter hourly variation of operations.</p> <p><b>dailyProfileSet</b> Supports the definition and use of DAILY_PROFILES for the daily variation of operations.</p> <p><b>monthlyProfileSet</b> Supports the definition and use of MONTHLY_PROFILES for the monthly variation of operations.</p> <p><b>activityProfileSet</b> Supports the definition and use of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES variation of operations.</p>
properties	content complex
children	<a href="#">quarterHourlyProfileSet</a> <a href="#">dailyProfileSet</a> <a href="#">monthlyProfileSet</a> <a href="#">activityProfileSet</a>
used by	element <a href="#">AsifXml</a>

element **operations**

diagram	<p>operations Contains a list of aircraft flight operations.</p> <p>attributes dummy</p> <p>operation Describes an aircraft flight operation. 1..∞</p>												
properties	content complex												
children	<a href="#">operation</a>												
used by	element <a href="#">trackOpSet</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Contains a list of aircraft flight operations.												

attribute **operations/@dummy**


type	<b>xs:int</b>
properties	use optional

element **options**

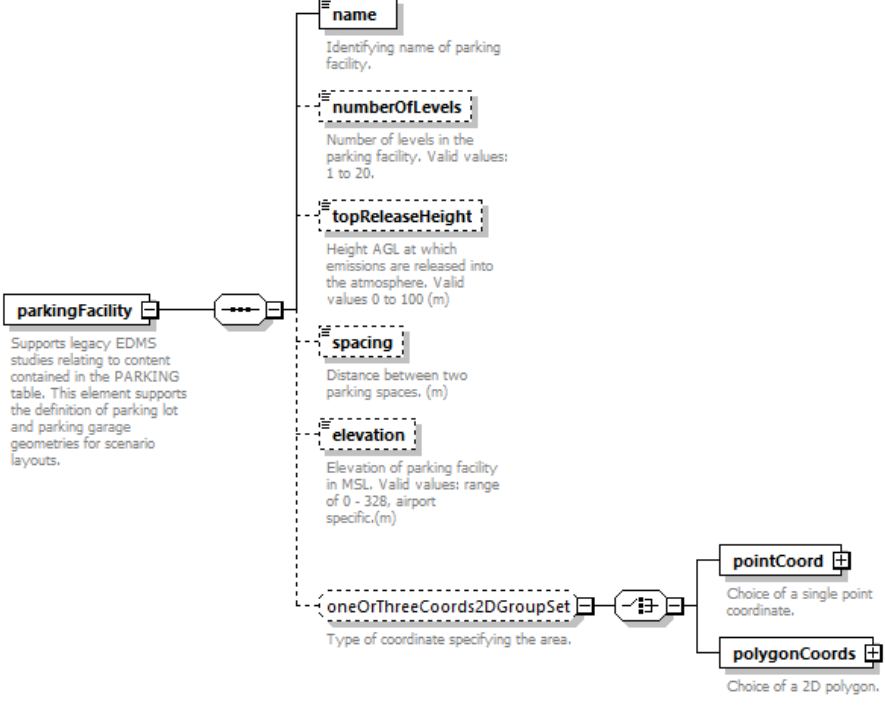
diagram	<p>options Contains default option values applied to the study.</p> <p>utmZoneDefault Default UTM zone number.</p>
properties	content complex
children	<a href="#">utmZoneDefault</a>

used by	element <a href="#">AsifXml</a>
annotation	documentation Contains default option values applied to the study.


element **options/utmZoneDefault**

diagram	 <p><b>utmZoneDefault</b> Default UTM zone number.</p>
type	<b>xs:int</b>
properties	content simple default -1
annotation	documentation Default UTM zone number.

element **parkingFacility**

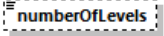
diagram	 <p><b>parkingFacility</b> Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage geometries for scenario layouts.</p> <p><b>name</b> Identifying name of parking facility.</p> <p><b>numberOfLevels</b> Number of levels in the parking facility. Valid values: 1 to 20.</p> <p><b>topReleaseHeight</b> Height AGL at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</p> <p><b>spacing</b> Distance between two parking spaces. (m)</p> <p><b>elevation</b> Elevation of parking facility in MSL. Valid values: range of 0 - 328, airport specific.(m)</p> <p><b>oneOrThreeCoords2DGroupSet</b> Type of coordinate specifying the area.</p> <p><b>pointCoord</b> Choice of a single point coordinate.</p> <p><b>polygonCoords</b> Choice of a 2D polygon.</p>
properties	content complex
children	<a href="#">name</a> <a href="#">numberOfLevels</a> <a href="#">topReleaseHeight</a> <a href="#">spacing</a> <a href="#">elevation</a> <a href="#">pointCoord</a> <a href="#">polygonCoords</a>
used by	element <a href="#">parkingFacilitySet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage geometries for scenario layouts.

element **parkingFacility/name**

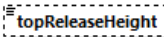
diagram	 <p><b>name</b> Identifying name of parking facility.</p>
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name of parking facility.

element **parkingFacility/numberOfLevels**


diagram	
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diagram	 <p><b>numberOfLevels</b> Number of levels in the parking facility. Valid values: 1 to 20.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Number of levels in the parking facility. Valid values: 1 to 20.


element **parkingFacility/topReleaseHeight**

diagram	 <p><b>topReleaseHeight</b> Height AGL at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Height AGL at which emissions are released into the atmosphere. Valid values 0 to 100 (m)

element **parkingFacility/spacing**

diagram	 <p><b>spacing</b> Distance between two parking spaces. (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Distance between two parking spaces. (m)

element **parkingFacility/elevation**

diagram	 <p><b>elevation</b> Elevation of parking facility in MSL. Valid values: range of 0 - 328, airport specific.(m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Elevation of parking facility in MSL. Valid values: range of 0 - 328, airport specific.(m)

element **parkingFacilityOperation**

diagram	
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properties	content complex
children	<a href="#">refName</a> <a href="#">useAnnualFigures</a> <a href="#">vehicleType</a> <a href="#">fuelType</a> <a href="#">emissionsUsage</a> <a href="#">averageSpeed</a> <a href="#">averageDistanceTraveled</a> <a href="#">averageIdleTime</a> <a href="#">vehicleEmissionFactors</a>
used by	element <a href="#">parkingFacilityOperationSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.

element **parkingFacilityOperation/refName**

diagram	
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name of parking facility.


element **parkingFacilityOperation/useAnnualFigures**

diagram	 <p>Indicates if the quantities in the element are annualized.</p>
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Indicates if the quantities in the element are annualized.

element **parkingFacilityOperation/vehicleType**

diagram	 <p>Type of vehicle involved in the operation. Valid values:  0 = Default Fleet Mix, 1 = Passenger Cars, 2 = Light Trucks 1, 3 = Light Trucks 2, 4 = Light Trucks 3, 5 = Light Trucks 4, 6 = Class 2b Heavy Trucks, 7 = Class 3 Heavy Trucks, 8 = Class 4 Heavy Trucks, 9 = Class 5 Heavy Trucks, 10 = Class 6 Heavy Trucks, 11 = Class 7 Heavy Trucks, 12 = Class 8a Heavy Trucks, 13 = Class 8b Heavy Trucks, 14 = School Buses, 15 = Transit and Urban Buses, 16 = Motorcycle.</p>
type	<b>groundVehicleType</b>
properties	content simple
facets	Kind Value Annotation pattern 0 Default Fleet Mix 1 Passenger Cars 2 Light Trucks 1 3 Light Trucks 2 4 Light Trucks 3 5 Light Trucks 4 6 Class 2b Heavy Trucks 7 Class 3 Heavy Trucks 8 Class 4 Heavy Trucks 9 Class 5 Heavy Trucks 10 Class 6 Heavy Trucks 11 Class 7 Heavy Trucks 12 Class 8a Heavy Trucks 13 Class 8b Heavy Trucks 14 School Buses 15 Transit and Urban Buses 16 Motorcycle
annotation	documentation Type of vehicle involved in the operation. Valid values: 0 = Default Fleet Mix, 1 = Passenger Cars, 2 = Light Trucks 1, 3 = Light Trucks 2, 4 = Light Trucks 3, 5 = Light Trucks 4, 6 = Class 2b Heavy Trucks, 7 = Class 3 Heavy Trucks, 8 = Class 4 Heavy Trucks, 9 = Class 5 Heavy Trucks, 10 = Class 6 Heavy Trucks, 11 = Class 7 Heavy Trucks, 12 = Class 8a Heavy Trucks, 13 = Class 8b Heavy Trucks, 14 = School Buses, 15 = Transit and Urban Buses, 16 = Motorcycle.

element **parkingFacilityOperation/fuelType**

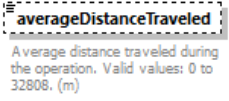
diagram	 <p>Type of fuel involved in the operation.</p>
type	<b>fuelType</b>
properties	minOcc 0 maxOcc 1 content simple default G
facets	Kind Value Annotation pattern G Gasoline D Diesel C Compressed Natural Gas L Liquefied Petroleum Gas E Electric
annotation	documentation Type of fuel involved in the operation.

element **parkingFacilityOperation/averageSpeed**

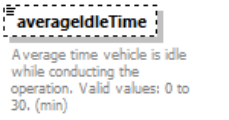
diagram	 <p>Average speed during the operation. Valid values: 2.5 to 40. (mph)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1

	content simple default 10
annotation	documentation Average speed during the operation. Valid values: 2.5 to 40. (mph)

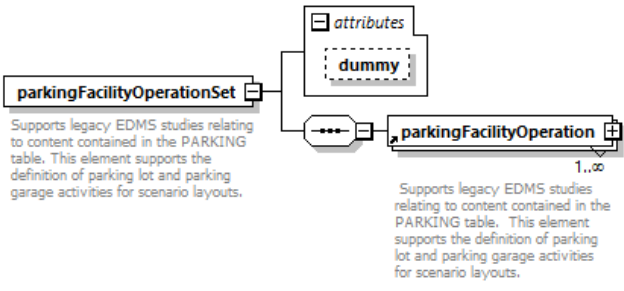
element **parkingFacilityOperation/averageDistanceTraveled**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average distance traveled during the operation. Valid values: 0 to 32808. (m)

element **parkingFacilityOperation/averageIdleTime**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average time vehicle is idle while conducting the operation. Valid values: 0 to 30. (min)

element **parkingFacilityOperationSet**

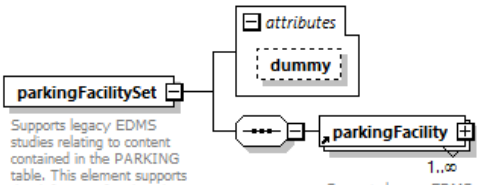
diagram													
properties	content complex												
children	<b>parkingFacilityOperation</b>												
used by	group <b>airportActivityGroup</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.												

attribute **parkingFacilityOperationSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **parkingFacilitySet**

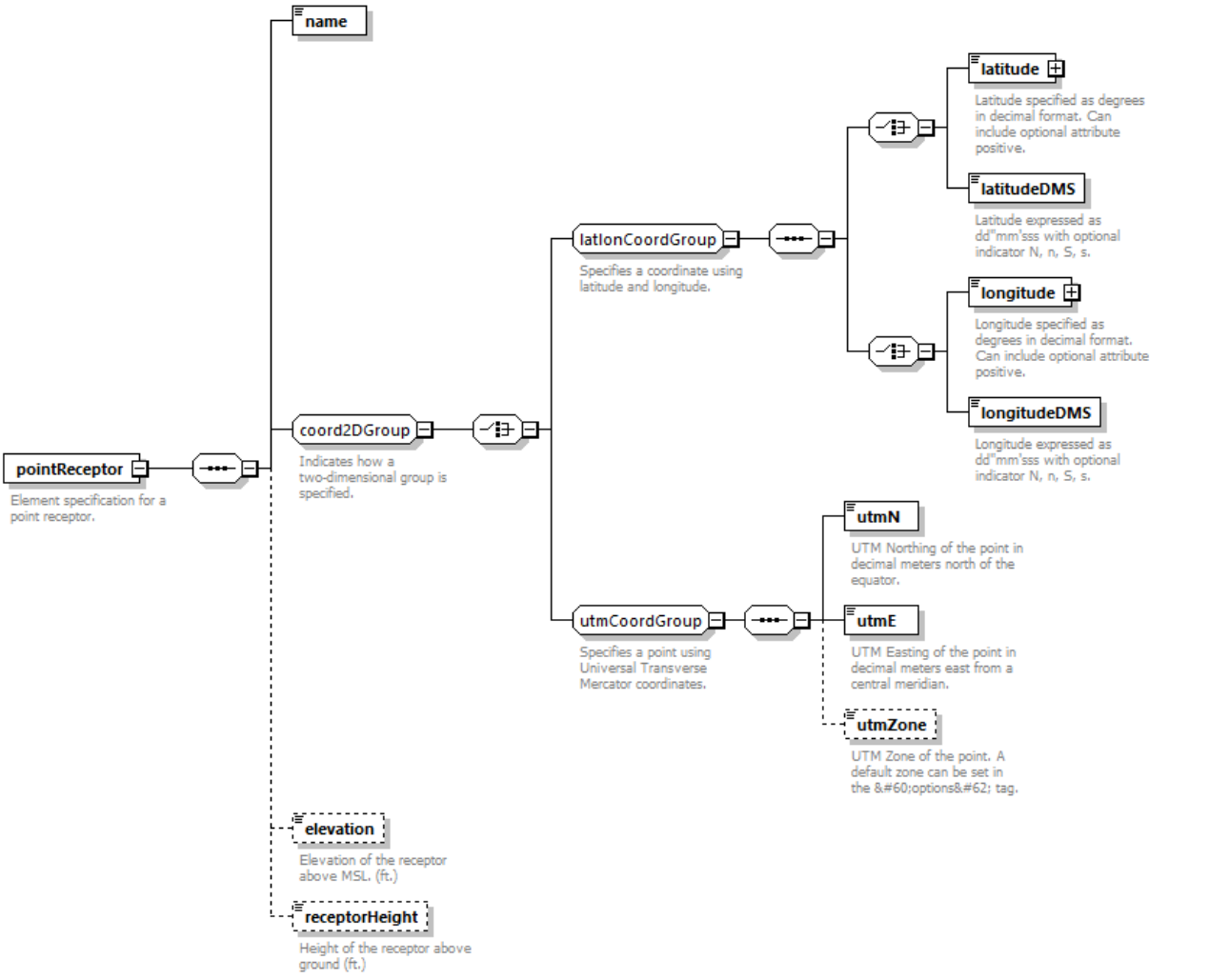
diagram	
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	 <p><b>parkingFacilitySet</b> Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.</p> <p><b>attributes</b> <b>dummy</b></p> <p><b>parkingFacility</b> 1..∞ Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage geometries for scenario layouts.</p>												
properties	content complex												
children	<b>parkingFacility</b>												
used by	complexType <b>airportLayoutType</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.												

attribute **parkingFacilitySet/@dummy**

type	<b>xs:int</b>
properties	use optional


element **pointReceptor**

diagram	 <p><b>pointReceptor</b> Element specification for a point receptor.</p> <p><b>name</b></p> <p><b>coord2DGroup</b> Indicates how a two-dimensional group is specified.</p> <p><b>latlonCoordGroup</b> Specifies a coordinate using latitude and longitude.</p> <p><b>utmCoordGroup</b> Specifies a point using Universal Transverse Mercator coordinates.</p> <p><b>latitude</b> Latitude specified as degrees in decimal format. Can include optional attribute positive.</p> <p><b>latitudeDMS</b> Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.</p> <p><b>longitude</b> Longitude specified as degrees in decimal format. Can include optional attribute positive.</p> <p><b>longitudeDMS</b> Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.</p> <p><b>utmN</b> UTM Northing of the point in decimal meters north of the equator.</p> <p><b>utmE</b> UTM Easting of the point in decimal meters east from a central meridian.</p> <p><b>utmZone</b> UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</p> <p><b>elevation</b> Elevation of the receptor above MSL. (ft.)</p> <p><b>receptorHeight</b> Height of the receptor above ground. (ft.)</p>
properties	content complex

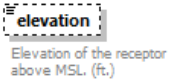


children	<a href="#">name</a> <a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">elevation</a> <a href="#">receptorHeight</a>
used by	group <a href="#">receptorGroup</a>
annotation	documentation Element specification for a point receptor.


element **pointReceptor/name**

diagram	
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255

element **pointReceptor/elevation**

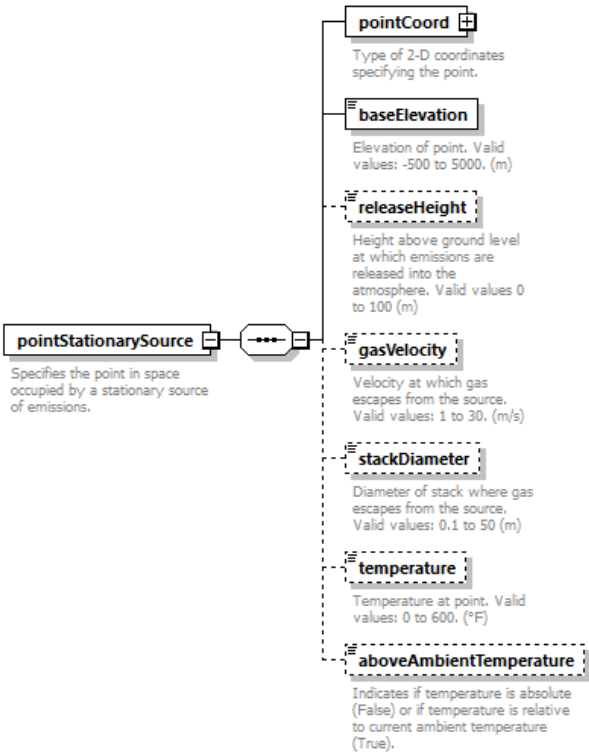
diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Elevation of the receptor above MSL. (ft.)

element **pointReceptor/receptorHeight**

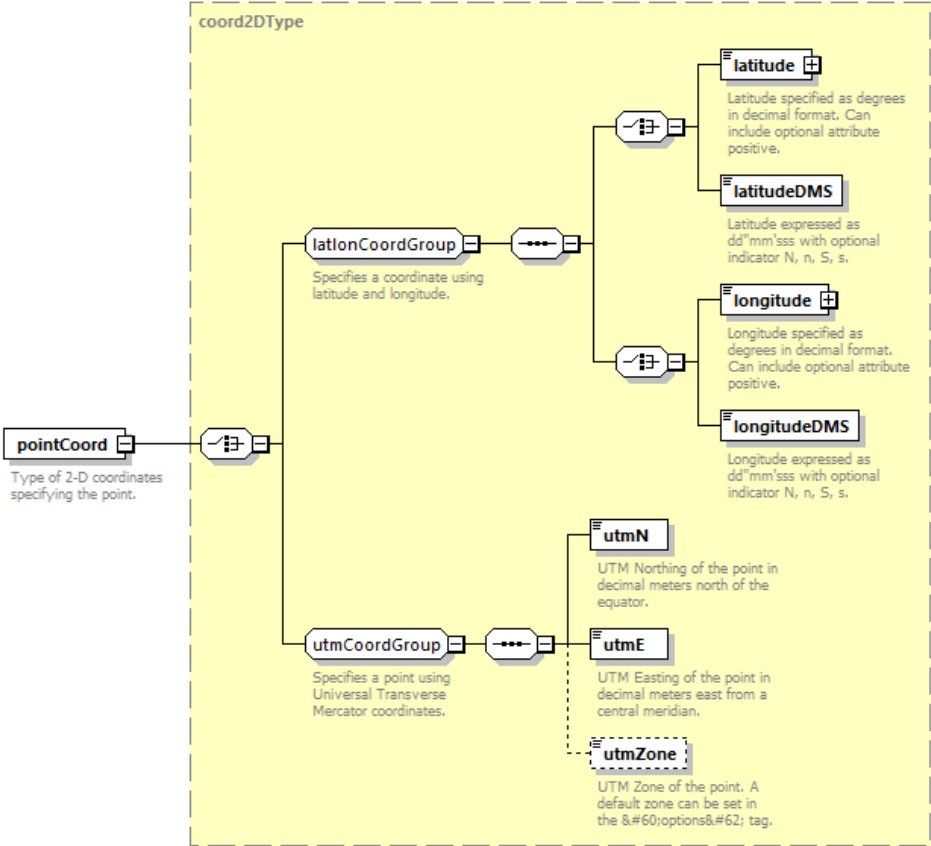
diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Height of the receptor above ground (ft.)

element **pointStationarySource**

diagram	
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	 <p><b>pointStationarySource</b> Specifies the point in space occupied by a stationary source of emissions.</p> <ul style="list-style-type: none"> <li><b>pointCoord</b> Type of 2-D coordinates specifying the point.</li> <li><b>baseElevation</b> Elevation of point. Valid values: -500 to 5000. (m)</li> <li><b>releaseHeight</b> Height above ground level at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</li> <li><b>gasVelocity</b> Velocity at which gas escapes from the source. Valid values: 1 to 30. (m/s)</li> <li><b>stackDiameter</b> Diameter of stack where gas escapes from the source. Valid values: 0.1 to 50 (m)</li> <li><b>temperature</b> Temperature at point. Valid values: 0 to 600. (°F)</li> <li><b>aboveAmbientTemperature</b> Indicates if temperature is absolute (False) or if temperature is relative to current ambient temperature (True).</li> </ul>
properties	content complex
children	<a href="#">pointCoord</a> <a href="#">baseElevation</a> <a href="#">releaseHeight</a> <a href="#">gasVelocity</a> <a href="#">stackDiameter</a> <a href="#">temperature</a> <a href="#">aboveAmbientTemperature</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Specifies the point in space occupied by a stationary source of emissions.

element **pointStationarySource/pointCoord**

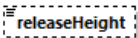
diagram	 <p><b>pointCoord</b> Type of 2-D coordinates specifying the point.</p> <ul style="list-style-type: none"> <li><b>latlonCoordGroup</b> Specifies a coordinate using latitude and longitude. <ul style="list-style-type: none"> <li><b>latitude</b> Latitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>latitudeDMS</b> Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> <li><b>longitude</b> Longitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>longitudeDMS</b> Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> </ul> </li> <li><b>utmCoordGroup</b> Specifies a point using Universal Transverse Mercator coordinates. <ul style="list-style-type: none"> <li><b>utmN</b> UTM Northing of the point in decimal meters north of the equator.</li> <li><b>utmE</b> UTM Easting of the point in decimal meters east from a central meridian.</li> <li><b>utmZone</b> UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</li> </ul> </li> </ul>
type	<a href="#">coord2DType</a>

properties	content complex
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
annotation	documentation Type of 2-D coordinates specifying the point.


#### element [pointStationarySource/baseElevation](#)

diagram	 <p>Elevation of point. Valid values: -500 to 5000. (m)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Elevation of point. Valid values: -500 to 5000. (m)

#### element [pointStationarySource/releaseHeight](#)

diagram	 <p>Height above ground level at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</p>
type	<b>doubleInclusive100</b>
properties	minOcc 0 maxOcc 1 content simple default 0
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Height above ground level at which emissions are released into the atmosphere. Valid values 0 to 100 (m)

#### element [pointStationarySource/gasVelocity](#)

diagram	 <p>Velocity at which gas escapes from the source. Valid values: 1 to 30. (m/s)</p>
type	<b>doubleInclusiveRange1to30</b>
properties	minOcc 0 maxOcc 1 content simple default 1
facets	Kind Value Annotation minInclusive 1 maxInclusive 30
annotation	documentation Velocity at which gas escapes from the source. Valid values: 1 to 30. (m/s)

#### element [pointStationarySource/stackDiameter](#)


diagram	 <p>Diameter of stack where gas escapes from the source. Valid values: 0.1 to 50 (m)</p>
type	<b>doubleExclusive0Inclusive10</b>
properties	minOcc 0 maxOcc 1 content simple default 0.1
facets	Kind Value Annotation

	maxInclusive 10 minExclusive 0
annotation	documentation Diameter of stack where gas escapes from the source. Valid values: 0.1 to 50 (m)

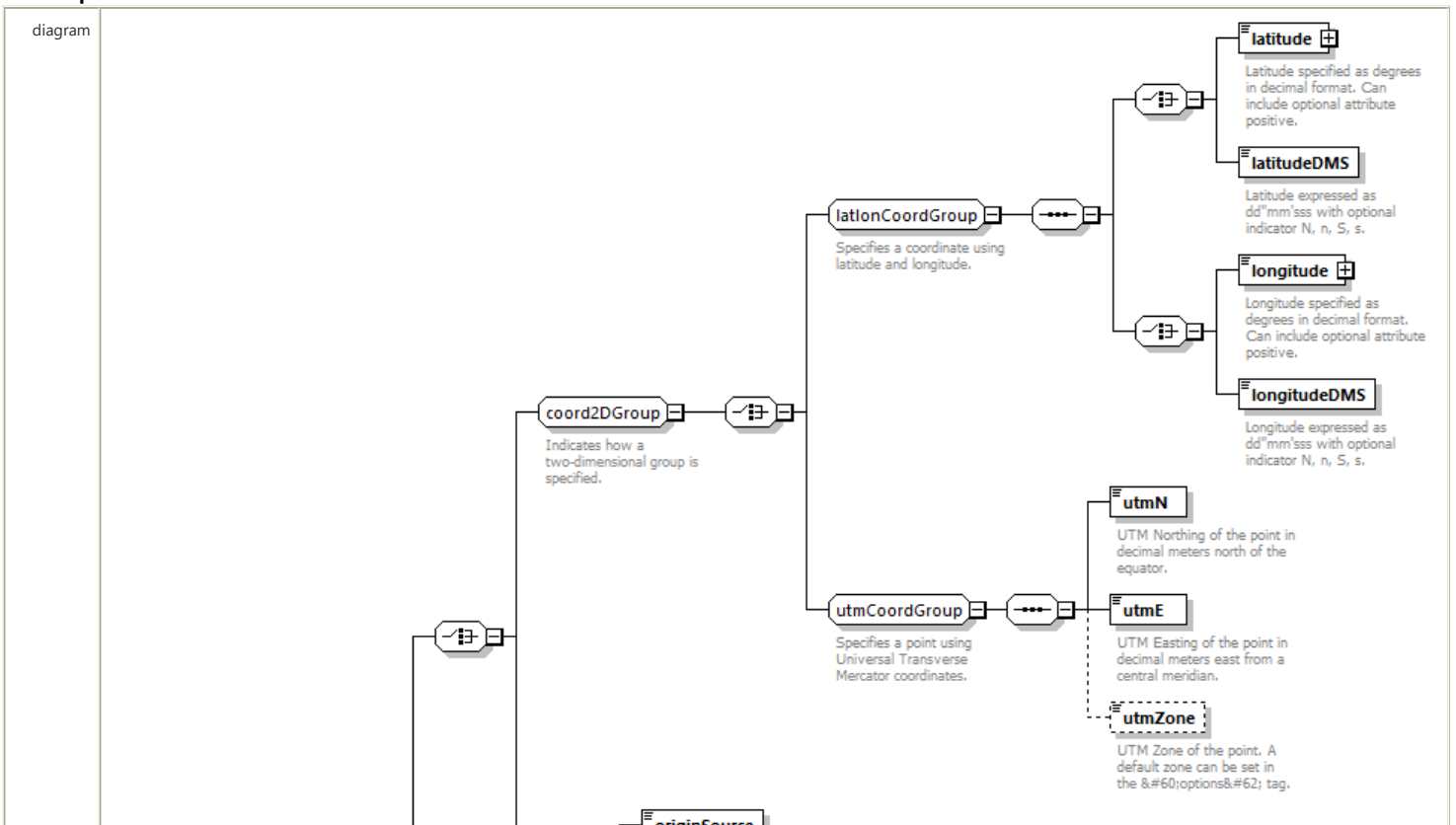
element **pointStationarySource/temperature**

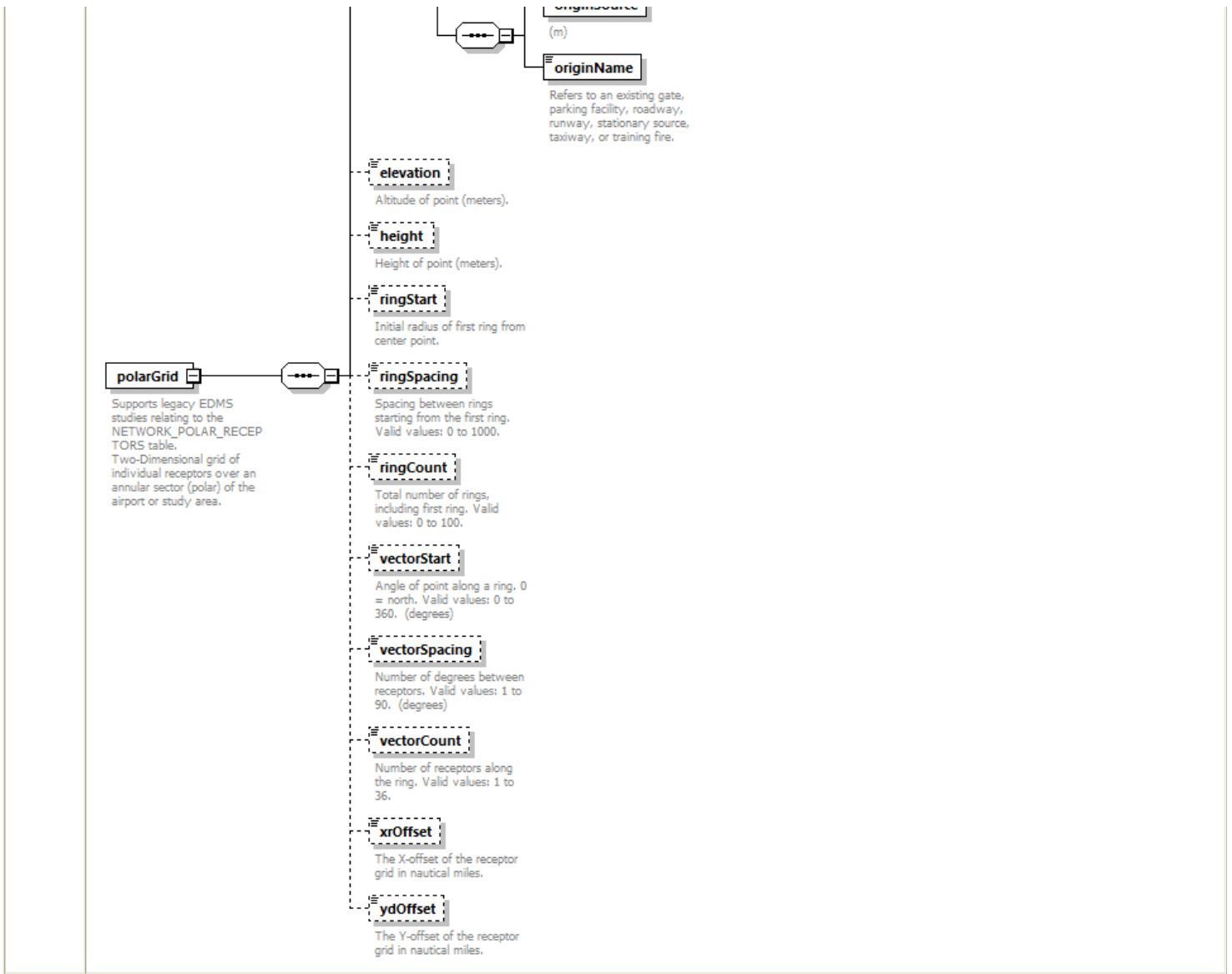
diagram	 <p>Temperature at point. Valid values: 0 to 600. (°F)</p>
type	<b>doubleInclusiveRange0to600</b>
properties	minOcc 0 maxOcc 1 content simple default 32
facets	Kind Value Annotation minInclusive 0 maxInclusive 600
annotation	documentation Temperature at point. Valid values: 0 to 600. (°F)

element **pointStationarySource/aboveAmbientTemperature**

diagram	 <p>Indicates if temperature is absolute (False) or if temperature is relative to current ambient temperature (True).</p>
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Indicates if temperature is absolute (False) or if temperature is relative to current ambient temperature (True).

element **polarGrid**





properties	content complex
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">originSource</a> <a href="#">originName</a> <a href="#">elevation</a> <a href="#">height</a> <a href="#">ringStart</a> <a href="#">ringSpacing</a> <a href="#">ringCount</a> <a href="#">vectorStart</a> <a href="#">vectorSpacing</a> <a href="#">vectorCount</a> <a href="#">xrOffset</a> <a href="#">ydOffset</a>
used by	group <a href="#">receptorGroup</a>
annotation	documentation Supports legacy EDMS studies relating to the NETWORK_POLAR_RECEPTORS table. Two-Dimensional grid of individual receptors over an annular sector (polar) of the airport or study area.

element **polarGrid/originSource**

diagram	<b>originSource</b> (m)
type	<a href="#">originSourceType</a>
properties	content simple
facets	Kind Value Annotation pattern Gate Parking Facility Roadway Runway Stationary Source Taxiway Training Fire
annotation	documentation (m)

element **polarGrid/originName**


diagram	
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	 <p>Refers to an existing gate, parking facility, roadway, runway, stationary source, taxiway, or training fire.</p>
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Refers to an existing gate, parking facility, roadway, runway, stationary source, taxiway, or training fire.

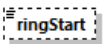
#### element **polarGrid/elevation**

diagram	 <p>Altitude of point (meters).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Altitude of point (meters).

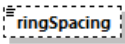
#### element **polarGrid/height**

diagram	 <p>Height of point (meters).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Height of point (meters).

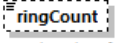
#### element **polarGrid/ringStart**

diagram	 <p>Initial radius of first ring from center point.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Initial radius of first ring from center point.

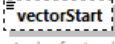
#### element **polarGrid/ringSpacing**

diagram	 <p>Spacing between rings starting from the first ring. Valid values: 0 to 1000.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Spacing between rings starting from the first ring. Valid values: 0 to 1000.

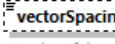
element **polarGrid/ringCount**

diagram	 <p>Total number of rings, including first ring. Valid values: 0 to 100.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Total number of rings, including first ring. Valid values: 0 to 100.

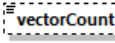
element **polarGrid/vectorStart**

diagram	 <p>Angle of point along a ring. 0 = north. Valid values: 0 to 360. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Angle of point along a ring. 0 = north. Valid values: 0 to 360. (degrees)

element **polarGrid/vectorSpacing**

diagram	 <p>Number of degrees between receptors. Valid values: 1 to 90. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Number of degrees between receptors. Valid values: 1 to 90. (degrees)

element **polarGrid/vectorCount**

diagram	 <p>Number of receptors along the ring. Valid values: 1 to 36.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple default 1
annotation	documentation Number of receptors along the ring. Valid values: 1 to 36.

element **polarGrid/xrOffset**

diagram	 <p>The X-offset of the receptor grid in nautical miles.</p>
type	<b>xs:double</b>
properties	minOcc 0

	maxOcc 1 content simple default 0
annotation	documentation The X-offset of the receptor grid in nautical miles.

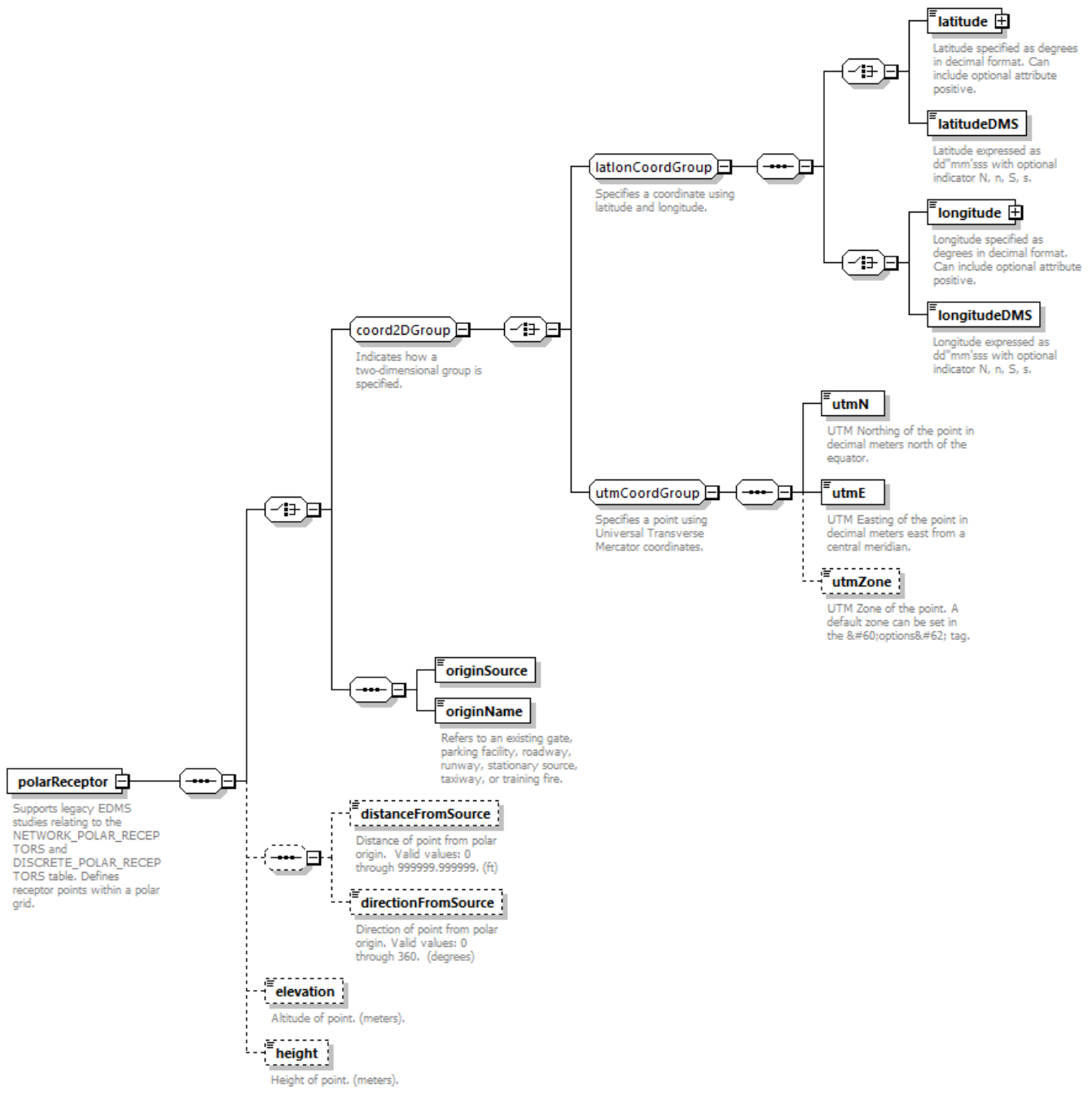
element **polarGrid/ydOffset**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation The Y-offset of the receptor grid in nautical miles.

element **polarReceptor**

diagram	
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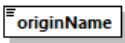
properties	content complex
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">originSource</a> <a href="#">originName</a> <a href="#">distanceFromSource</a> <a href="#">directionFromSource</a> <a href="#">elevation</a> <a href="#">height</a>
used by	group <a href="#">receptorGroup</a>
annotation	documentation Supports legacy EDM5 studies relating to the NETWORK_POLAR_RECEPTORS and DISCRETE_POLAR_RECEPTORS table. Defines receptor points within a polar grid.

element **polarReceptor/originSource**

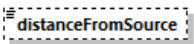
diagram	
type	<a href="#">originSourceType</a>
properties	content simple
facets	Kind Value Annotation pattern Gate Parking Facility Roadway Runway Stionary Source Taxiway Training Fire

element **polarReceptor/originName**


diagram	
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	 <p><b>originName</b></p> <p>Refers to an existing gate, parking facility, roadway, runway, stationary source, taxiway, or training fire.</p>
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Refers to an existing gate, parking facility, roadway, runway, stationary source, taxiway, or training fire.

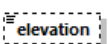
element **polarReceptor/distanceFromSource**

diagram	 <p><b>distanceFromSource</b></p> <p>Distance of point from polar origin. Valid values: 0 through 999999.999999. (ft)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Distance of point from polar origin. Valid values: 0 through 999999.999999. (ft)


element **polarReceptor/directionFromSource**

diagram	 <p><b>directionFromSource</b></p> <p>Direction of point from polar origin. Valid values: 0 through 360. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Direction of point from polar origin. Valid values: 0 through 360. (degrees)

element **polarReceptor/elevation**

diagram	 <p><b>elevation</b></p> <p>Altitude of point. (meters).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Altitude of point. (meters).

element **polarReceptor/height**

diagram	 <p><b>height</b></p> <p>Height of point. (meters).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Height of point. (meters).

element **quarterHourlyProfile**

diagram	<p><b>quarterHourlyProfile</b></p> <p>Supports legacy EDMS studies relating to content contained in the QUARTER_HOURLY_PROFILES. This element supports the definition of temporal factors on a quarter-hourly operational basis.</p> <p><b>profileName</b> Name of profile.</p> <p><b>temporalFactor</b> 0..∞ Factor applied to activity for operations during the indicated quarter hour. Valid values: 0.0000 to 1.0000.</p>
properties	content complex
children	<a href="#">profileName</a> <a href="#">temporalFactor</a>
used by	element <a href="#">quarterHourlyProfileSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the QUARTER_HOURLY_PROFILES. This element supports the definition of temporal factors on a quarter-hourly operational basis.

element **quarterHourlyProfile/profileName**

diagram	<p><b>profileName</b> Name of profile.</p>
type	<a href="#">string100</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Name of profile.

element **quarterHourlyProfile/temporalFactor**

diagram	<p><b>temporalFactor</b> 0..∞ Factor applied to activity for operations during the indicated quarter hour. Valid values: 0.0000 to 1.0000.</p> <p><b>attributes</b></p> <p><b>startHour</b> The starting hour as an integer between 0 and 23.</p> <p><b>startMinutes</b> The starting quarter-hourly minute value as either 0, 15, 30, or 45.</p>																		
type	extension of <a href="#">doubleMin0</a>																		
properties	minOcc 0 maxOcc unbounded content complex																		
facets	Kind Value Annotation minInclusive 0																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">startHour</a></td> <td><a href="#">int0to23</a></td> <td>required</td> <td></td> <td></td> <td>documentation The starting hour as an integer between 0 and 23.</td> </tr> <tr> <td><a href="#">startMinutes</a></td> <td><a href="#">quarterHourMinutes</a></td> <td>required</td> <td></td> <td></td> <td>documentation The starting quarter-hourly minute value as either 0, 15, 30, or 45.</td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">startHour</a>	<a href="#">int0to23</a>	required			documentation The starting hour as an integer between 0 and 23.	<a href="#">startMinutes</a>	<a href="#">quarterHourMinutes</a>	required			documentation The starting quarter-hourly minute value as either 0, 15, 30, or 45.
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">startHour</a>	<a href="#">int0to23</a>	required			documentation The starting hour as an integer between 0 and 23.														
<a href="#">startMinutes</a>	<a href="#">quarterHourMinutes</a>	required			documentation The starting quarter-hourly minute value as either 0, 15, 30, or 45.														
annotation	documentation Factor applied to activity for operations during the indicated quarter hour. Valid values: 0.0000 to 1.0000.																		

attribute **quarterHourlyProfile/temporalFactor/@startHour**

type	<a href="#">int0to23</a>
properties	use required
facets	Kind Value Annotation

	minInclusive 0 maxInclusive 23
annotation	documentation The starting hour as an integer between 0 and 23.

attribute **quarterHourlyProfile/temporalFactor/@startMinutes**

type	<a href="#">quarterHourMinutes</a>
properties	use required
facets	Kind Value Annotation enumeration 0 enumeration 15 enumeration 30 enumeration 45
annotation	documentation The starting quarter-hourly minute value as either 0, 15, 30, or 45.

element **quarterHourlyProfileSet**

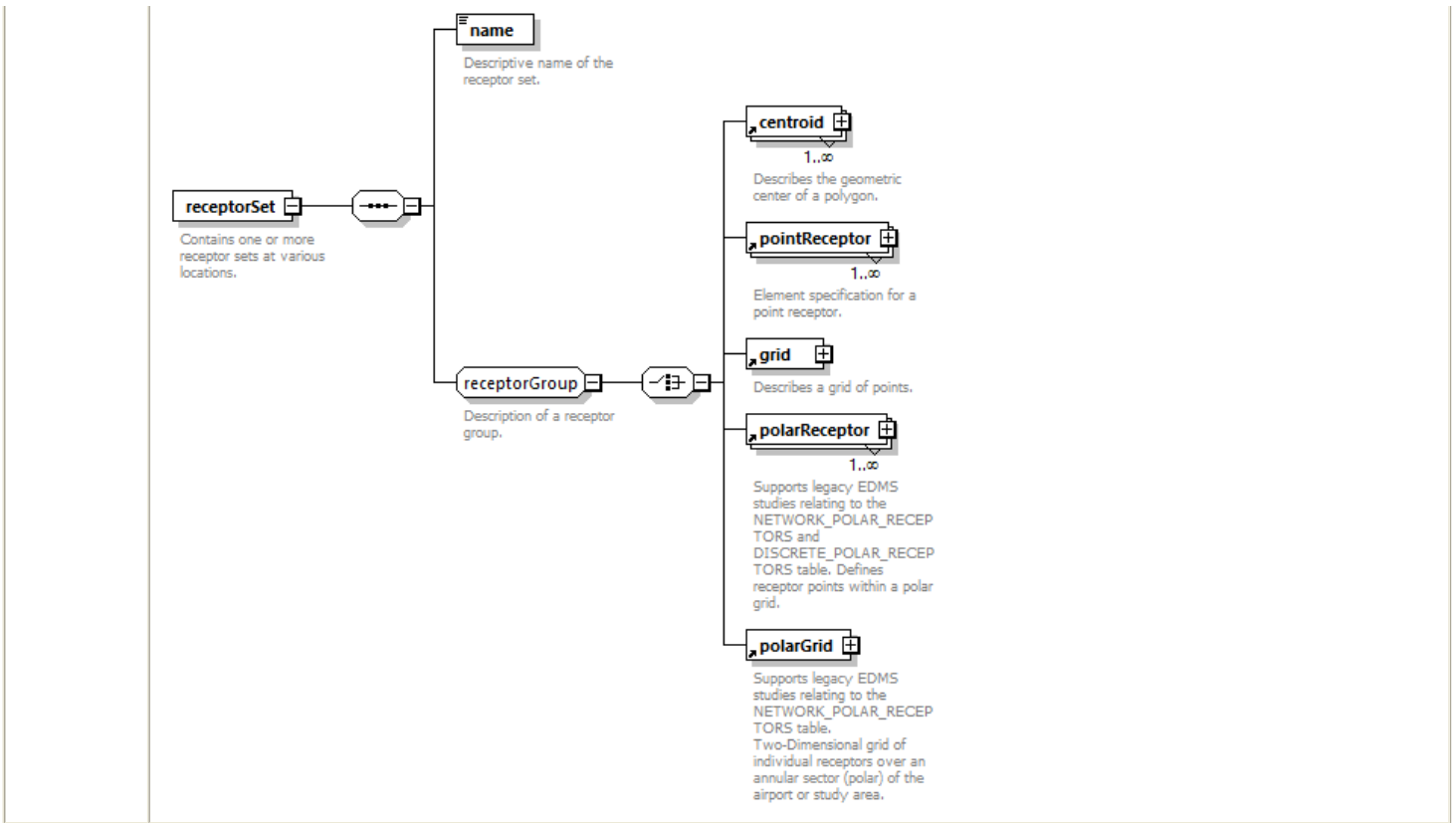
diagram	<p>Supports the definition and use of QUARTER_HOURLY_PROFILE S for the quarter hourly variation of operations.</p> <p>Supports legacy EDMS studies relating to content contained in the QUARTER_HOURLY_PROFILES. This element supports the definition of temporal factors on a quarter-hourly operational basis.</p>												
properties	content complex												
children	<a href="#">quarterHourlyProfile</a>												
used by	element <a href="#">operationalProfileSet</a> complexType <a href="#">airportLayoutType</a>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Supports the definition and use of QUARTER_HOURLY_PROFILES for the quarter hourly variation of operations.												

attribute **quarterHourlyProfileSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **receptorSet**

diagram	
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properties	content complex
children	<a href="#">name</a> <a href="#">centroid</a> <a href="#">pointReceptor</a> <a href="#">grid</a> <a href="#">polarReceptor</a> <a href="#">polarGrid</a>
used by	elements <a href="#">AsifXml</a> <a href="#">study</a>
annotation	documentation Contains one or more receptor sets at various locations.

element **receptorSet/name**

diagram	
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Descriptive name of the receptor set.

element **recordCode**

diagram	
type	union of (restriction of <b>xs:int</b> , restriction of <b>xs:int</b> )
properties	content simple
used by	element <a href="#">categoryRecordCode</a>
annotation	documentation An integer value for a category to use as the basis of a new stationary source operation. This value comes from the CATEGORY_REC_ID column in the STN_CATEGORY table in the

element **roadway**

diagram	<p>The diagram shows a central 'roadway' element box connected to three child elements: 'name', 'width', and 'coordinates'. 'name' is a solid box, 'width' is a dashed box, and 'coordinates' is a dashed box with a plus sign. A line with a circle and three dots connects 'roadway' to the children.</p> <p><b>roadway</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle geometry on roadways for scenario layouts.</p> <p><b>name</b> Identifying name for the roadway.</p> <p><b>width</b> Roadway's width. Valid values: 1 to 99. (m)</p> <p><b>coordinates</b> Set of three-dimensional coordinates describing the roadway.</p>
properties	content complex
children	<a href="#">name</a> <a href="#">width</a> <a href="#">coordinates</a>
used by	element <a href="#">roadwaySet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle geometry on roadways for scenario layouts.

element **roadway/name**

diagram	<p>The diagram shows a single 'name' element box with a description: 'Identifying name for the roadway.'</p>
type	<a href="#">string40</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name for the roadway.

element **roadway/width**

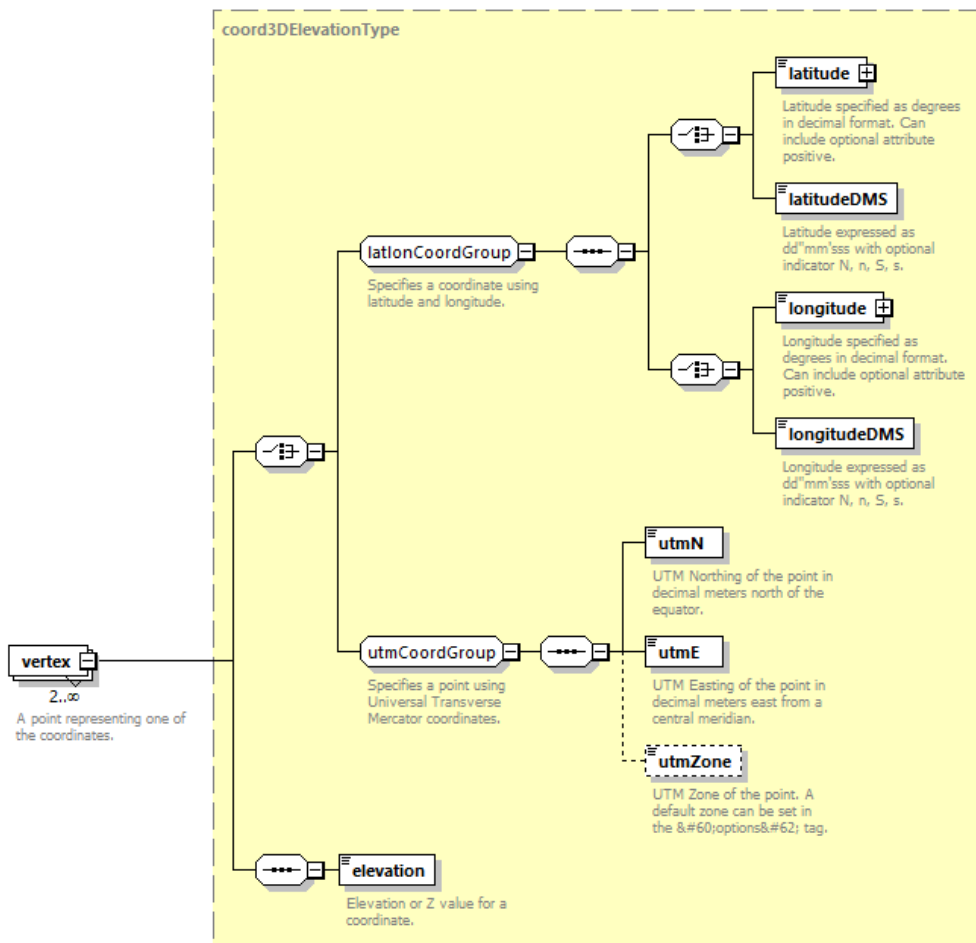
diagram	<p>The diagram shows a single 'width' element box with a description: 'Roadway's width. Valid values: 1 to 99. (m)'</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Roadway's width. Valid values: 1 to 99. (m)

element **roadway/coordinates**

diagram	<p>The diagram shows a 'coordinates' element box connected to a 'vertex' element box. 'coordinates' is a dashed box with a plus sign, and 'vertex' is a solid box. A line with a circle and three dots connects 'coordinates' to 'vertex'. The cardinality '2..∞' is shown between them.</p> <p><b>coordinates</b> Set of three-dimensional coordinates describing the roadway.</p> <p><b>vertex</b> A point representing one of the coordinates.</p>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">vertex</a>
annotation	documentation Set of three-dimensional coordinates describing the roadway.

element **roadway/coordinates/vertex**

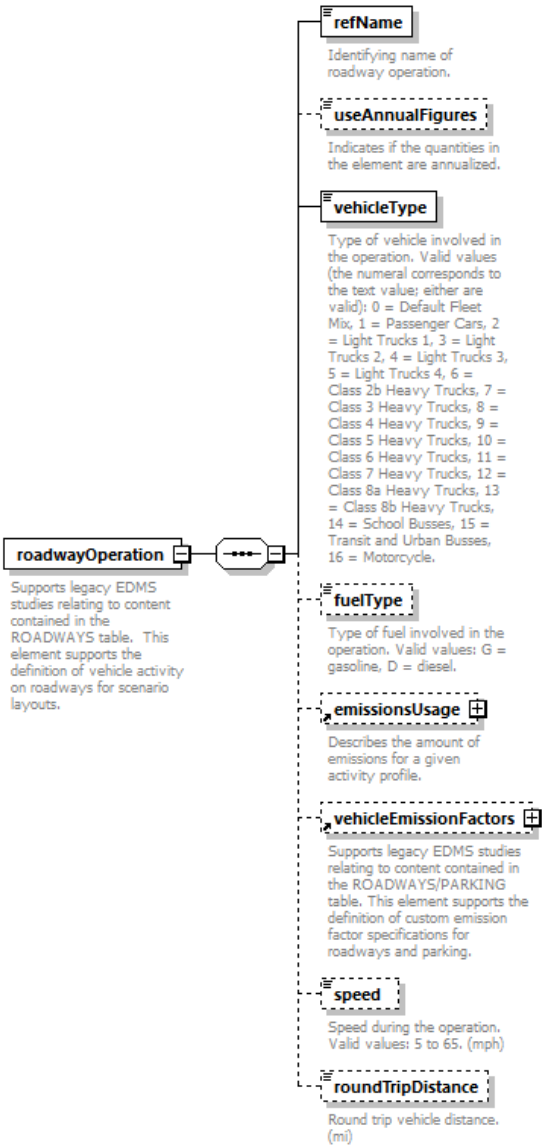
diagram	
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type	<b>coord3DElevationType</b>
properties	minOcc 2 maxOcc unbounded content complex
children	<b>latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone elevation</b>
annotation	documentation A point representing one of the coordinates.

element **roadwayOperation**

diagram	
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	 <p><b>roadwayOperation</b></p> <p>Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.</p> <ul style="list-style-type: none"> <li><b>refName</b>: Identifying name of roadway operation.</li> <li><b>useAnnualFigures</b>: Indicates if the quantities in the element are annualized.</li> <li><b>vehicleType</b>: Type of vehicle involved in the operation. Valid values (the numeral corresponds to the text value; either are valid): 0 = Default Fleet Mix, 1 = Passenger Cars, 2 = Light Trucks 1, 3 = Light Trucks 2, 4 = Light Trucks 3, 5 = Light Trucks 4, 6 = Class 2b Heavy Trucks, 7 = Class 3 Heavy Trucks, 8 = Class 4 Heavy Trucks, 9 = Class 5 Heavy Trucks, 10 = Class 6 Heavy Trucks, 11 = Class 7 Heavy Trucks, 12 = Class 8a Heavy Trucks, 13 = Class 8b Heavy Trucks, 14 = School Buses, 15 = Transit and Urban Buses, 16 = Motorcycle.</li> <li><b>fuelType</b>: Type of fuel involved in the operation. Valid values: G = gasoline, D = diesel.</li> <li><b>emissionsUsage</b>: Describes the amount of emissions for a given activity profile.</li> <li><b>vehicleEmissionFactors</b>: Supports legacy EDMS studies relating to content contained in the ROADWAYS/PARKING table. This element supports the definition of custom emission factor specifications for roadways and parking.</li> <li><b>speed</b>: Speed during the operation. Valid values: 5 to 65. (mph)</li> <li><b>roundTripDistance</b>: Round trip vehicle distance. (mi)</li> </ul>
properties	content complex
children	<a href="#">refName</a> <a href="#">useAnnualFigures</a> <a href="#">vehicleType</a> <a href="#">fuelType</a> <a href="#">emissionsUsage</a> <a href="#">vehicleEmissionFactors</a> <a href="#">speed</a> <a href="#">roundTripDistance</a>
used by	element <a href="#">roadwayOperationSet</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.

element **roadwayOperation/refName**

diagram	 <p><b>refName</b></p> <p>Identifying name of roadway operation.</p>
type	<a href="#">string40</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name of roadway operation.

element **roadwayOperation/useAnnualFigures**

diagram	 <p><b>useAnnualFigures</b></p> <p>Indicates if the quantities in the element are annualized.</p>
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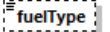


type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Indicates if the quantities in the element are annualized.


element **roadwayOperation/vehicleType**

diagram	 <p>vehicleType</p> <p>Type of vehicle involved in the operation. Valid values (the numeral corresponds to the text value; either are valid): 0 = Default Fleet Mix, 1 = Passenger Cars, 2 = Light Trucks 1, 3 = Light Trucks 2, 4 = Light Trucks 3, 5 = Light Trucks 4, 6 = Class 2b Heavy Trucks, 7 = Class 3 Heavy Trucks, 8 = Class 4 Heavy Trucks, 9 = Class 5 Heavy Trucks, 10 = Class 6 Heavy Trucks, 11 = Class 7 Heavy Trucks, 12 = Class 8a Heavy Trucks, 13 = Class 8b Heavy Trucks, 14 = School Buses, 15 = Transit and Urban Buses, 16 = Motorcycle.</p>
type	<b>groundVehicleType</b>
properties	content simple
facets	Kind Value Annotation pattern 0 Default Fleet Mix 1 Passenger Cars 2 Light Trucks 1 3 Light Trucks 2 4 Light Trucks 3 5 Light Trucks 4 6 Class 2b Heavy Trucks 7 Class 3 Heavy Trucks 8 Class 4 Heavy Trucks 9 Class 5 Heavy Trucks 10 Class 6 Heavy Trucks 11 Class 7 Heavy Trucks 12 Class 8a Heavy Trucks 13 Class 8b Heavy Trucks 14 School Buses 15 Transit and Urban Buses 16 Motorcycle
annotation	documentation Type of vehicle involved in the operation. Valid values (the numeral corresponds to the text value; either are valid): 0 = Default Fleet Mix, 1 = Passenger Cars, 2 = Light Trucks 1, 3 = Light Trucks 2, 4 = Light Trucks 3, 5 = Light Trucks 4, 6 = Class 2b Heavy Trucks, 7 = Class 3 Heavy Trucks, 8 = Class 4 Heavy Trucks, 9 = Class 5 Heavy Trucks, 10 = Class 6 Heavy Trucks, 11 = Class 7 Heavy Trucks, 12 = Class 8a Heavy Trucks, 13 = Class 8b Heavy Trucks, 14 = School Buses, 15 = Transit and Urban Buses, 16 = Motorcycle.

element **roadwayOperation/fuelType**

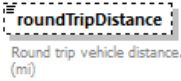
diagram	 <p>fuelType</p> <p>Type of fuel involved in the operation. Valid values: G = gasoline, D = diesel.</p>
type	<b>fuelType</b>
properties	minOcc 0 maxOcc 1 content simple default G
facets	Kind Value Annotation pattern G Gasoline D Diesel C Compressed Natural Gas L Liquefied Petroleum Gas E Electric
annotation	documentation Type of fuel involved in the operation. Valid values: G = gasoline, D = diesel.

element **roadwayOperation/speed**

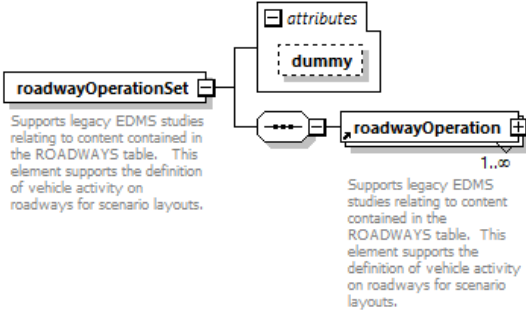
diagram	 <p>speed</p> <p>Speed during the operation. Valid values: 5 to 65. (mph)</p>
type	<b>int5to65</b>
properties	minOcc 0 maxOcc 1 content simple default 35
facets	Kind Value Annotation minInclusive 5 maxInclusive 65

annotation	documentation Speed during the operation. Valid values: 5 to 65. (mph)
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element **roadwayOperation/roundTripDistance**

diagram	 <p><b>roundTripDistance</b> Round trip vehicle distance. (mi)</p>
type	<b>doubleInclusive4000</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 4000
annotation	documentation Round trip vehicle distance. (mi)

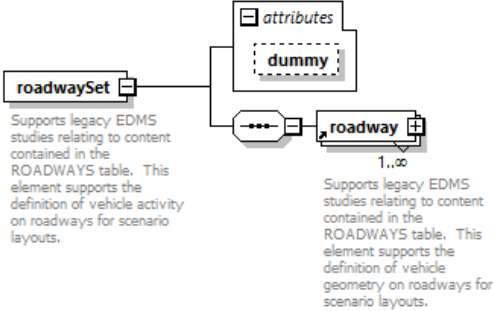
element **roadwayOperationSet**

diagram	 <p><b>roadwayOperationSet</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.</p> <p><b>attributes</b> <b>dummy</b></p> <p><b>roadwayOperation</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts. 1..∞</p>												
properties	content complex												
children	<b>roadwayOperation</b>												
used by	group <b>airportActivityGroup</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.												

attribute **roadwayOperationSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **roadwaySet**

diagram	 <p><b>roadwaySet</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.</p> <p><b>attributes</b> <b>dummy</b></p> <p><b>roadway</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle geometry on roadways for scenario layouts. 1..∞</p>												
properties	content complex												
children	<b>roadway</b>												
used by	complexType <b>airportLayoutType</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>					
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>													

	<a href="#">dummy</a> , <b>xs:int</b> optional
annotation	documentation Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.

attribute **roadwaySet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **runway**

diagram	<pre> classDiagram     class runway {         length         width         runwayEnd 1..2     }     </pre> <p>runway Describes dimensions of a runway.</p> <p>length Length of runway. Valid values: nonnegative. (ft)</p> <p>width Width of runway. Valid values: nonnegative. (ft)</p> <p>runwayEnd 1..2 Characterizes the runway's endpoint.</p>
properties	content complex
children	<a href="#">length</a> <a href="#">width</a> <a href="#">runwayEnd</a>
used by	element <a href="#">runwaySet</a>
annotation	documentation Describes dimensions of a runway.

element **runway/length**

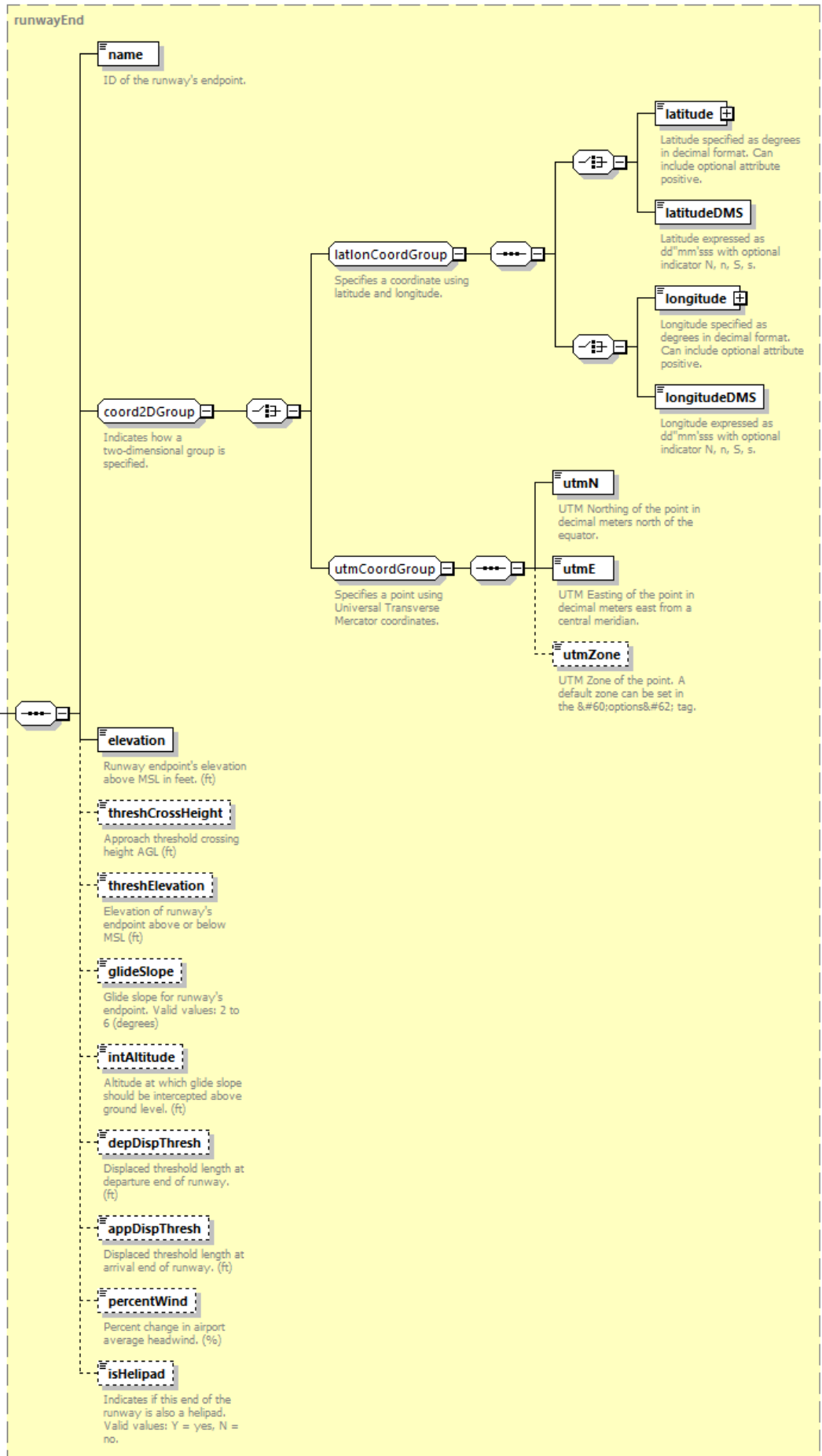
diagram	<pre> classDiagram     class length {     }     </pre> <p>length Length of runway. Valid values: nonnegative. (ft)</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Length of runway. Valid values: nonnegative. (ft)

element **runway/width**

diagram	<pre> classDiagram     class width {     }     </pre> <p>width Width of runway. Valid values: nonnegative. (ft)</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Width of runway. Valid values: nonnegative. (ft)

element **runway/runwayEnd**

diagram	
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**runwayEnd**  
1..2  
Characterizes the runway's endpoint.

**name**  
ID of the runway's endpoint.

**coord2DGroup**  
Indicates how a two-dimensional group is specified.

**latlonCoordGroup**  
Specifies a coordinate using latitude and longitude.

**latitude**  
Latitude specified as degrees in decimal format. Can include optional attribute positive.

**latitudeDMS**  
Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.

**longitude**  
Longitude specified as degrees in decimal format. Can include optional attribute positive.

**longitudeDMS**  
Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.

**utmCoordGroup**  
Specifies a point using Universal Transverse Mercator coordinates.

**utmN**  
UTM Northing of the point in decimal meters north of the equator.

**utmE**  
UTM Easting of the point in decimal meters east from a central meridian.

**utmZone**  
UTM Zone of the point. A default zone can be set in the &#60;options&#62; tag.

**elevation**  
Runway endpoint's elevation above MSL in feet. (ft)

**threshCrossHeight**  
Approach threshold crossing height AGL (ft)

**threshElevation**  
Elevation of runway's endpoint above or below MSL (ft)

**glideSlope**  
Glide slope for runway's endpoint. Valid values: 2 to 6 (degrees)

**intAltitude**  
Altitude at which glide slope should be intercepted above ground level. (ft)

**depDispThresh**  
Displaced threshold length at departure end of runway. (ft)

**appDispThresh**  
Displaced threshold length at arrival end of runway. (ft)

**percentWind**  
Percent change in airport average headwind. (%)

**isHelipad**  
Indicates if this end of the runway is also a helipad. Valid values: Y = yes, N = no.

type	<b>runwayEnd</b>
properties	minOcc 1

	maxOcc 2 content complex
children	<a href="#">name</a> <a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">elevation</a> <a href="#">threshCrossHeight</a> <a href="#">threshElevation</a> <a href="#">glideSlope</a> <a href="#">intAltitude</a> <a href="#">depDispThresh</a> <a href="#">appDispThresh</a> <a href="#">percentWind</a> <a href="#">isHelipad</a>
annotation	documentation Characterizes the runway's endpoint.

#### element **runwayAssignment**

diagram	
properties	content complex
children	<a href="#">aircraftSize</a> <a href="#">runway</a> <a href="#">arrivalPercentage</a> <a href="#">departurePercentage</a> <a href="#">tgoPercentage</a>
used by	element <a href="#">runwayAssignmentSet</a>
annotation	documentation Defines a assignment of operations to runways, by aircraft size.

#### element **runwayAssignment/aircraftSize**

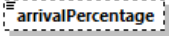
diagram	
type	<a href="#">AircraftSizeType</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation enumeration S enumeration L enumeration H

#### element **runwayAssignment/runway**

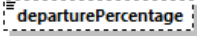
diagram	
type	<a href="#">string8</a>
properties	content simple
used by	element <a href="#">runwaySet</a>
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Name of the runway.

#### element **runwayAssignment/arrivalPercentage**

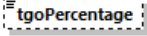
diagram	
---------	--

	 <p>Percentage of arrivals of the given aircraft size using this runway. Valid values: 0 to 100.(%)</p>
type	<b>doubleInclusive100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percentage of arrivals of the given aircraft size using this runway. Valid values: 0 to 100.(%)


element **runwayAssignment/departurePercentage**

diagram	 <p>Percentage of departures of the given aircraft size using this runway. Valid values: 0 to 100. (%)</p>
type	<b>doubleInclusive100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percentage of departures of the given aircraft size using this runway. Valid values: 0 to 100. (%)

element **runwayAssignment/tgoPercentage**

diagram	 <p>Percentage of touch and gos of the given aircraft size using this runway. Valid values: 0 to 100. (%)</p>
type	<b>doubleInclusive100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Percentage of touch and gos of the given aircraft size using this runway. Valid values: 0 to 100. (%)

element **runwayAssignmentSet**

diagram	 <p>Contains a set of runway assignments.</p> <p>Defines a assignment of operations to runways, by aircraft size.</p>
properties	content complex
children	<b>runwayAssignment</b>
used by	element <b>airportConfig</b>
annotation	documentation Contains a set of runway assignments.

element **runwaySet**

--	--

diagram	<pre> classDiagram     class runwaySet {         runway 1..∞     }     class runway {         +     }     runwaySet "1" -- "1..∞" runway         </pre>
properties	content complex
children	<a href="#">runway</a>
used by	complexType <a href="#">airportLayoutType</a>
annotation	documentation Container for runways.

element **scenario**

diagram	<pre> classDiagram     class scenario {         +name         +startTime         +duration         +taxiModel         +acftPerfModel         +bankAngle         +altitudeCutoff         +sulfurConversionRate         +fuelSulfurContent         +description         +scenarioAirportLayoutSet         +caseSet         +annualization     }     scenario "1" -- "1..∞"         </pre>
properties	content complex

children	<a href="#">name</a> <a href="#">startTime</a> <a href="#">duration</a> <a href="#">taxiModel</a> <a href="#">timelnModeBasis</a> <a href="#">acftPerfModel</a> <a href="#">bankAngle</a> <a href="#">altitudeCutoff</a> <a href="#">sulfurConversionRate</a> <a href="#">fuelSulfurContent</a> <a href="#">description</a> <a href="#">scenarioAirportLayoutSet</a> <a href="#">caseSet</a> <a href="#">annualization</a>
used by	elements <a href="#">AsifXml</a> <a href="#">study</a>
annotation	documentation Encapsulates a scenario - such as Baseline or Alternative

#### element **scenario/name**

diagram	
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of scenario.

#### element **scenario/startTime**

diagram	
type	<a href="#">xs:dateTime</a>
properties	content simple
annotation	documentation Start time of scenario. Accepts dateTime string.


#### element **scenario/duration**

diagram	
type	<a href="#">xs:int</a>
properties	content simple
annotation	documentation Scenario's duration (hr).

#### element **scenario/taxiModel**

diagram	
type	<a href="#">taxiModelType</a>
properties	content simple
facets	Kind Value Annotation enumeration UserSpecified enumeration Delayed enumeration Sequencing
annotation	documentation Taxi model for scenario.


#### element **scenario/timelnModeBasis**

diagram	
type	<a href="#">timelnModeBasisType</a>
properties	minOcc 0 maxOcc 1 content simple default ICAO

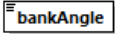


facets	Kind	Value	Annotation
	enumeration	Performance	
	enumeration	ICAO	

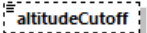
element **scenario/acftPerfModel**

diagram	 Aircraft performance model.		
type	<b>aircraftPerformanceModelType</b>		
properties	content simple		
facets	Kind	Value	Annotation
	enumeration	ICAO	
	enumeration	SAE1845	
annotation	documentation	Aircraft performance model.	

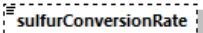
element **scenario/bankAngle**

diagram	 Indicates if bank angle calculations should be included in calculations. NOTE: AEDT ignores this value and treats all scenarios as if their bank angle value was set to true.		
type	<b>xs:boolean</b>		
properties	content simple		
annotation	documentation	Indicates if bank angle calculations should be included in calculations. NOTE: AEDT ignores this value and treats all scenarios as if their bank angle value was set to true.	

element **scenario/altitudeCutoff**


diagram	 Altitude in MSL to cutoff trajectory modeling for this scenario. The scenario altitude cutoff only affects noise impact calculation in AEDT. Fuel burn and emissions will be calculated until a flight reaches the study boundary. (ft)		
type	<b>xs:double</b>		
properties	minOcc 0 maxOcc 1 content simple default 18000		
annotation	documentation	Altitude in MSL to cutoff trajectory modeling for this scenario. The scenario altitude cutoff only affects noise impact calculation in AEDT. Fuel burn and emissions will be calculated until a flight reaches the study boundary. (ft)	

element **scenario/sulfurConversionRate**


diagram	 Portion of sulfur in the fuel that, when combusted, becomes sulfuric acid used for emissions calculations. (%)		
type	<b>xs:double</b>		
properties	minOcc 0 maxOcc 1 content simple		
annotation	documentation	Portion of sulfur in the fuel that, when combusted, becomes sulfuric acid used for emissions calculations. (%)	

element **scenario/fuelSulfurContent**

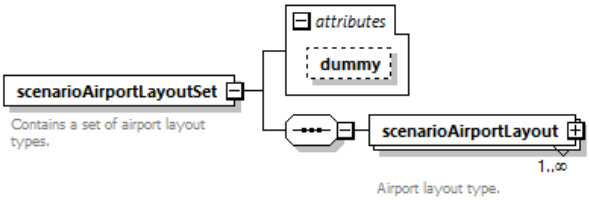
diagram	
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	 <b>fuelSulfurContent</b> Percentage, by weight, of sulfur in the fuel used for emissions calculations. Default Values: 0.0006 (0.06%) (%)
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Percentage, by weight, of sulfur in the fuel used for emissions calculations. Default Values: 0.0006 (0.06%) (%)

element **scenario/description**

diagram	 <b>description</b> A description of the scenario.
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation A description of the scenario.

element **scenarioAirportLayoutSet**

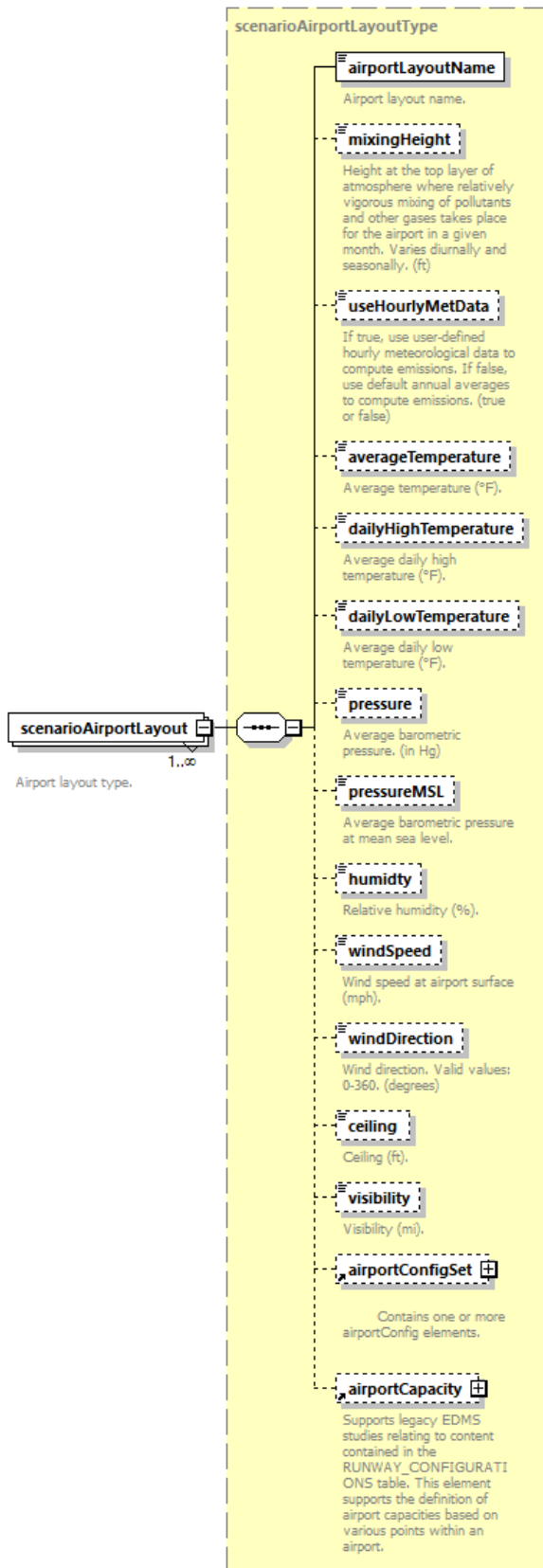
diagram													
properties	content complex												
children	<b>scenarioAirportLayout</b>												
used by	element <b>scenario</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Contains a set of airport layout types.												

attribute **scenarioAirportLayoutSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **scenarioAirportLayoutSet/scenarioAirportLayout**

diagram	
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type	<b>scenarioAirportLayoutType</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">airportLayoutName</a> <a href="#">mixingHeight</a> <a href="#">useHourlyMetData</a> <a href="#">averageTemperature</a> <a href="#">dailyHighTemperature</a> <a href="#">dailyLowTemperature</a> <a href="#">pressure</a> <a href="#">pressureMSL</a> <a href="#">humidity</a> <a href="#">windSpeed</a> <a href="#">windDirection</a> <a href="#">ceiling</a> <a href="#">visibility</a> <a href="#">airportConfigSet</a> <a href="#">airportCapacity</a>
annotation	documentation Airport layout type.

element **sensorNode**

diagram	
properties	content complex
children	<a href="#">lat</a> <a href="#">long</a> <a href="#">altitude</a> <a href="#">messageTime</a> <a href="#">sequenceNum</a> <a href="#">speed</a> <a href="#">thrust</a> <a href="#">source</a>
used by	element <a href="#">sensorPath</a>
annotation	documentation Describes a single node of a radar flight path.

element **sensorNode/lat**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Latitude for this location (decimal degrees).

element **sensorNode/long**


diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Longitude for this location (decimal degrees).

element **sensorNode/altitude**

diagram	
type	<b>xs:double</b>
properties	content simple

annotation	documentation Altitude at this location (ft)
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
element **sensorNode/messageTime**

diagram	 <p>Time aircraft reaches this location. NOTE: Not used in AEDT.</p>
type	<b>xs:dateTime</b>
properties	content simple
annotation	documentation Time aircraft reaches this location. NOTE: Not used in AEDT.


element **sensorNode/sequenceNum**

diagram	 <p>Order of this location in node list.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Order of this location in node list.

element **sensorNode/speed**

diagram	 <p>Ground speed of aircraft at this location (kts).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Ground speed of aircraft at this location (kts).

element **sensorNode/thrust**

diagram	 <p>Thrust of aircraft at this location. NOTE: Not used in AEDT. (lb)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Thrust of aircraft at this location. NOTE: Not used in AEDT. (lb)

element **sensorNode/source**

diagram	 <p>Source of the data for this node. NOTE: Not used in AEDT.</p>
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255

annotation	documentation Source of the data for this node. NOTE: Not used in AEDT.
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element **sensorPath**

diagram	<p>sensorPath: Describes a flight path based on radar data.</p> <p>sensorNode: Describes a single node of a radar flight path. Multiplicity: 1..∞</p>
properties	content complex
children	<a href="#">sensorNode</a>
used by	element <a href="#">trackOpSet</a>
annotation	documentation Describes a flight path based on radar data.

element **stationarySource**

diagram	<p>stationarySource: Specifies a stationary source.</p> <p>name: Identifying name of the stationary source.</p> <p>pointStationarySource: Specifies the point in space occupied by a stationary source of emissions.</p> <p>areaStationarySource: Specifies the area in space occupied by a stationary source of emissions.</p> <p>volumeStationarySource: Specifies the volume in space occupied by a stationary source of emissions.</p> <p>categoryRecordCode: An integer value for a category to use as the basis of a new stationary source operation. This value comes from the CATEGORY_REC_ID column in the STN_CATEGORY table in the AEDT FLEET database.</p> <p>categoryBoilerHeater: Describes the operational characteristics of a source in the boiler/heater category.</p> <p>categoryGenerator: Describes the operational characteristics of a source in the generator category.</p> <p>categoryIncinerator: Describes the operational characteristics of a source in the incinerator category.</p> <p>categoryAircraftEngine: Describes a category for the time an aircraft engine is at various power levels.</p> <p>categoryFuelTank: Describes the operational characteristics of a source in the fuel tank category.</p> <p>categorySurfaceCoatingPainting: Describes the operational characteristics of a source in the surface coating or painting category.</p> <p>categoryDeicingArea: Describes the operational characteristics of a source in the deicing area category.</p> <p>categorySolventDegreaser: Describes the operational characteristics of a source in the solvent degreaser category.</p>
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	<p>Describes the operational characteristics of a source in the solvent degreaser category.</p> <p><b>categorySandSaltPile</b> </p> <p>Describes the emissions characteristics of a source in the sand or salt pile category.</p> <p><b>categoryTrainingFire</b> </p> <p>Supports legacy EDMS studies relating to content contained in the TRAINING_FIRES table. This element supports the definition of training fires for scenario layouts. Training fire data are used in both emissions and dispersion analyses.</p> <p><b>categoryOther</b> </p> <p>Describes the operational characteristics of a source in the "other" category.</p>
properties	content complex
children	<b>name</b> <b>pointStationarySource</b> <b>areaStationarySource</b> <b>volumeStationarySource</b> <b>categoryRecordCode</b> <b>categoryBoilerHeater</b> <b>categoryGenerator</b> <b>categoryIncinerator</b> <b>categoryAircraftEngine</b> <b>categoryFuelTank</b> <b>categorySurfaceCoatingPainting</b> <b>categoryDeicingArea</b> <b>categorySolventDegreaser</b> <b>categorySandSaltPile</b> <b>categoryTrainingFire</b> <b>categoryOther</b>
used by	element <b>stationarySourceSet</b>
annotation	documentation Specifies a stationary source.

#### element **stationarySource/name**

diagram	<p><b>name</b> </p> <p>Identifying name of the stationary source.</p>
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifying name of the stationary source.

#### element **stationarySourceOperation**

diagram	<p><b>stationarySourceOperation</b> </p> <p>Defines an operation at a stationary source that generates emissions.</p> <p><b>refName</b> </p> <p>Identifier of the operation.</p> <p><b>elevation</b> </p> <p><b>pointCoord</b> </p> <p><b>emissionsUsage</b> </p> <p>Describes the amount of emissions for a given activity profile.</p>
properties	content complex
children	<b>refName</b> <b>elevation</b> <b>pointCoord</b> <b>emissionsUsage</b>
used by	element <b>stationarySourceOperationSet</b>
annotation	documentation Defines an operation at a stationary source that generates emissions.

#### element **stationarySourceOperation/refName**

diagram	<p><b>refName</b> </p> <p>Identifier of the operation.</p>
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type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Identifier of the operation.

element **stationarySourceOperation/elevation**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple

element **stationarySourceOperation/pointCoord**

diagram	<p>The diagram shows a tree structure for <b>coord2DType</b>. The root is <b>pointCoord</b> (dashed box). It branches into <b>latlonCoordGroup</b> and <b>utmCoordGroup</b>. <b>latlonCoordGroup</b> (text: "Specifies a coordinate using latitude and longitude.") branches into <b>latitude</b> (text: "Latitude specified as degrees in decimal format. Can include optional attribute positive.") and <b>latitudeDMS</b> (text: "Latitude expressed as dd°mm'sss with optional indicator N, n, S, s."). <b>longitude</b> (text: "Longitude specified as degrees in decimal format. Can include optional attribute positive.") and <b>longitudeDMS</b> (text: "Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.") are also shown as children of the <b>latlonCoordGroup</b> branch. <b>utmCoordGroup</b> (text: "Specifies a point using Universal Transverse Mercator coordinates.") branches into <b>utmN</b> (text: "UTM Northing of the point in decimal meters north of the equator."), <b>utmE</b> (text: "UTM Easting of the point in decimal meters east from a central meridian."), and <b>utmZone</b> (dashed box, text: "UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.").</p>
type	<b>coord2DType</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone</b>

element **stationarySourceOperationSet**

diagram	<p>The diagram shows <b>stationarySourceOperationSet</b> (text: "Container of operations conducted at a stationary source contributing emissions.") containing an <b>attributes</b> block with a <b>dummy</b> element (dashed box). It also contains a list of <b>stationarySourceOperation</b> elements (text: "Defines an operation at a stationary source that generates emissions.") with a cardinality of 1..∞.</p>
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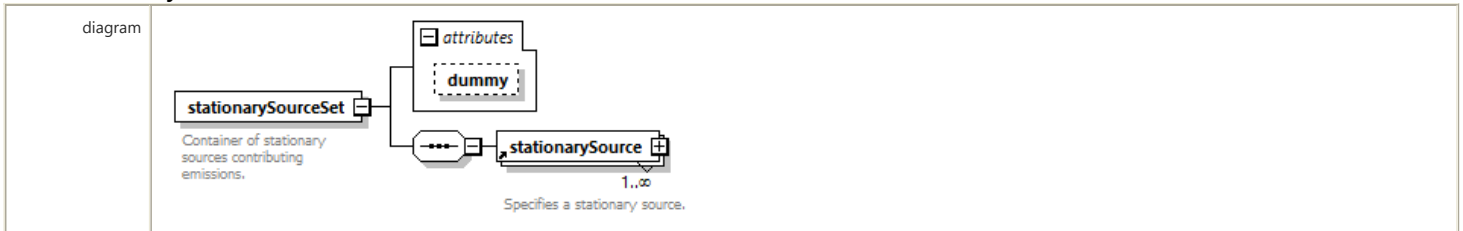


properties	content complex					
children	<a href="#">stationarySourceOperation</a>					
used by	group <a href="#">airportActivityGroup</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">dummy</a>	<b>xs:int</b>	optional			
annotation	documentation Container of operations conducted at a stationary source contributing emissions.					

attribute **stationarySourceOperationSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **stationarySourceSet**



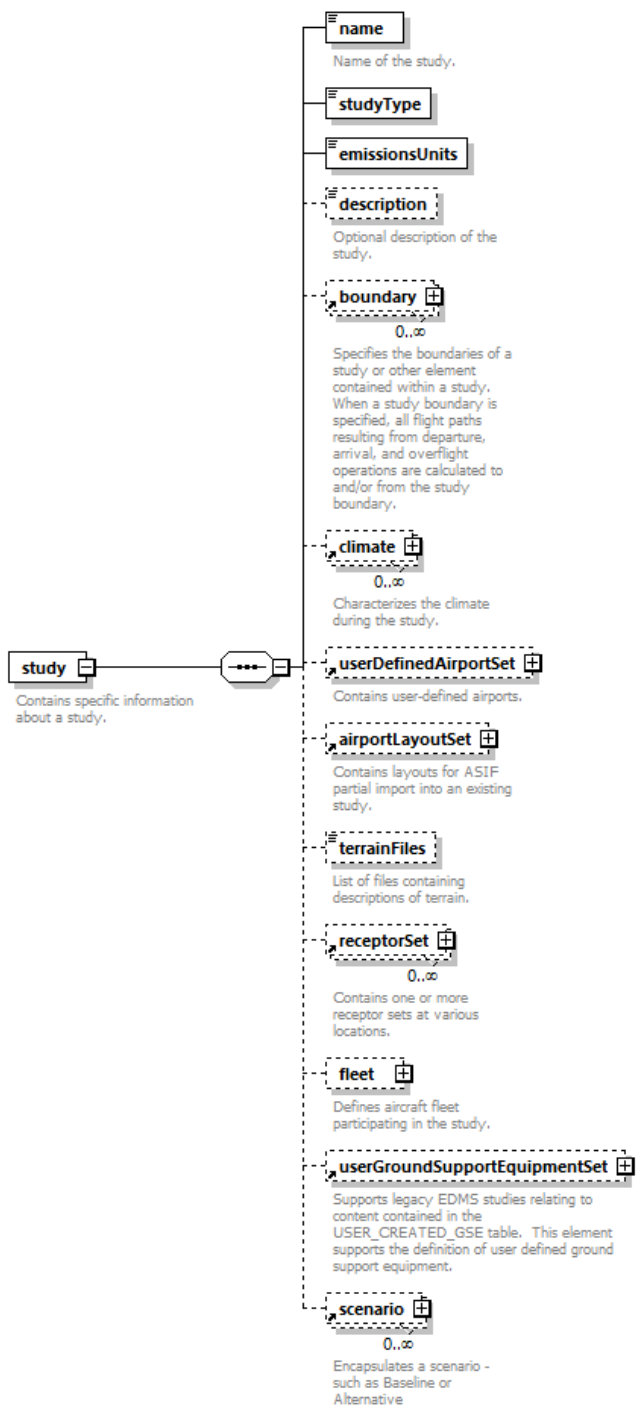
properties	content complex					
children	<a href="#">stationarySource</a>					
used by	element <a href="#">AsifXml</a> complexType <a href="#">airportLayoutType</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">dummy</a>	<b>xs:int</b>	optional			
annotation	documentation Container of stationary sources contributing emissions.					

attribute **stationarySourceSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **study**

diagram	
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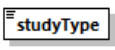
properties	content complex
children	<a href="#">name</a> <a href="#">studyType</a> <a href="#">emissionsUnits</a> <a href="#">description</a> <a href="#">boundary</a> <a href="#">climate</a> <a href="#">userDefinedAirportSet</a> <a href="#">airportLayoutSet</a> <a href="#">terrainFiles</a> <a href="#">receptorSet</a> <a href="#">fleet</a> <a href="#">userGroundSupportEquipmentSet</a> <a href="#">scenario</a>
used by	element <a href="#">AsifXml</a>
annotation	documentation Contains specific information about a study.

element **study/name**

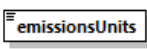
diagram	
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0

	maxLength 255
annotation	documentation Name of the study.

#### element **study/studyType**

diagram	
type	<a href="#">studyType</a>
properties	content simple
facets	Kind Value Annotation enumeration Emissions enumeration Dispersion enumeration Noise and Emissions enumeration Noise and Dispersion

#### element **study/emissionsUnits**

diagram	
type	<a href="#">emissionsUnitsType</a>
properties	content simple
facets	Kind Value Annotation enumeration MetricTonnes enumeration Kilograms enumeration Grams enumeration ImperialTons enumeration Pounds

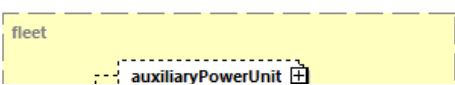
#### element **study/description**

diagram	
type	<a href="#">string255</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Optional description of the study.

#### element **study/terrainFiles**

diagram	
type	<a href="#">string255</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation List of files containing descriptions of terrain.

#### element **study/fleet**

diagram	
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0..∞

Describes a custom auxiliary power unit (APU). These are typically on-board generators providing power to a parked aircraft.

**airframe**

0..∞

Supports the definition of custom airframes.

**engine**

0..∞

User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can then be used within a user-defined aircraft.

**engineMod**

0..∞

User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can be used within a user defined aircraft.

**anpNoiseGroup**

0..∞

This element contains the three spectral class references for a given aircraft noise group with the corresponding thrust setting type and model type.

**anpAirplane**

0..∞

Creates a new ANP aircraft.

**anpFlapsSet**

0..∞

Flap settings for an ANP aircraft type.

**anpThrustSet**

0..∞

Specifies a set of thrust records for an ANP aircraft.

**anpProfileSet**

0..∞

The profile set for an ANP aircraft.

**anpHeloNoiseGroup**

0..∞

This element contains the three spectral class references for a given helicopter noise group with the corresponding thrust setting type and model type.

**anpHelicopter**

0..∞

Creates a new ANP helicopter.

**anpHeloDirectivitySet**

0..∞

A set of helicopter directivities.

**anpHeloProfileSet**

0..∞

A profile set for an ANP helicopter.

**badaAirplane**

0..∞

Describes a new user-defined BADA airplane.

**fleet**

Defines aircraft fleet participating in the study.



**badaAltitudeDistributionSet**

	<p><b>badaAltitudeDistributionSet</b> 0..∞ A block for defining a BADA altitude distribution set.</p> <p><b>badaDefaultAltitudeDistribution...</b> 0..∞ A block for defining the BADA default altitude distribution set.</p> <p><b>badaProfileSet</b> 0..∞ A block used to define a custom BADA profile set.</p> <p><b>badaConfigSet</b> 0..∞ A block for a custom BADA airplane configuration coefficient set.</p> <p><b>badaFuel</b> 0..∞ A BADA fuel data record.</p> <p><b>badaThrust</b> 0..∞ Custom BADA airplane thrust data sets.</p> <p><b>aircraft</b> 0..∞ A block used to create new user defined AEDT aircraft.</p> <p><b>energyShare</b> 0..∞ A custom BADA aircraft energy share set.</p>
type	<b>fleet</b>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">auxiliaryPowerUnit</a> <a href="#">airframe</a> <a href="#">engine</a> <a href="#">engineMod</a> <a href="#">anpNoiseGroup</a> <a href="#">anpAirplane</a> <a href="#">anpFlapsSet</a> <a href="#">anpThrustSet</a> <a href="#">anpProfileSet</a> <a href="#">anpHeloNoiseGroup</a> <a href="#">anpHelicopter</a> <a href="#">anpHeloDirectivitySet</a> <a href="#">anpHeloProfileSet</a> <a href="#">badaAirplane</a> <a href="#">badaAltitudeDistributionSet</a> <a href="#">badaDefaultAltitudeDistributionSet</a> <a href="#">badaProfileSet</a> <a href="#">badaConfigSet</a> <a href="#">badaFuel</a> <a href="#">badaThrust</a> <a href="#">aircraft</a> <a href="#">energyShare</a>
annotation	documentation Defines aircraft fleet participating in the study.

#### element **subtrack**

diagram	<p><b>subtrack</b> Intended to represent a dispersed child track of a parent track.</p> <p><b>id</b> ID for a subtrack.</p> <p><b>dispersionWeight</b> dispersion weight value; must be greater than one and less than or equal to 1.</p> <p><b>trackVectors</b> A list of flight track vectors.</p> <p><b>trackNodes</b> A set of flight track nodes</p>
properties	content complex
children	<a href="#">id</a> <a href="#">dispersionWeight</a> <a href="#">trackVectors</a> <a href="#">trackNodes</a>
used by	element <a href="#">track</a>
annotation	documentation Intended to represent a dispersed child track of a parent track.

#### element **subtrack/id**

diagram	
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	<div style="border: 1px solid black; padding: 2px; display: inline-block;">id</div> ID for a subtrack.
type	<b>xs:int</b>
properties	content simple
annotation	documentation ID for a subtrack.


element **subtrack/dispersionWeight**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;">dispersionWeight</div> dispersion weight value; must be greater than one and less than or equal to 1.
type	<b>xs:double</b>
properties	content simple
used by	element <b>backbone</b>
annotation	documentation dispersion weight value; must be greater than one and less than or equal to 1.


element **taxiNode**

diagram	
properties	content complex
children	<b>latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone elevation speed</b>
used by	element <b>taxiNodeSet</b>
annotation	documentation Supports legacy EDMS studies relating to the TAXIWAYS table. Taxi nodes define the points for a given taxiway.

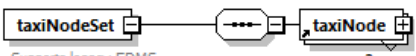
element **taxiNode/elevation**

diagram	 <p>Taxi node's elevation above MSL. Valid values: -500 to 5000. (m)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Taxi node's elevation above MSL. Valid values: -500 to 5000. (m)

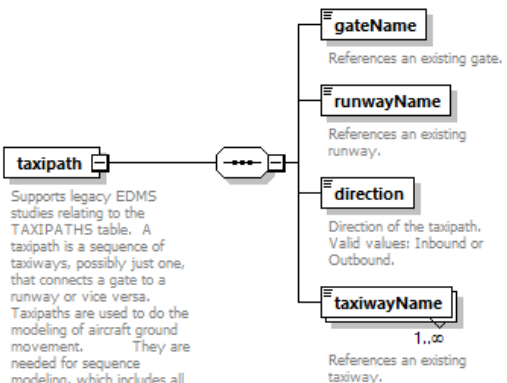
element **taxiNode/speed**

diagram	 <p>Speed of aircraft at node. Valid values: 1.00 to 60.00. (mph)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Speed of aircraft at node. Valid values: 1.00 to 60.00. (mph)

element **taxiNodeSet**


diagram	 <p>Supports legacy EDMS studies relating to the TAXIWAYS table. Taxi nodes define the points for a given taxiway.</p> <p>2..∞  Supports legacy EDMS studies relating to the TAXIWAYS table. Taxi nodes define the points for a given taxiway.</p>
properties	content complex
children	<a href="#">taxiNode</a>
used by	element <a href="#">taxiway</a>
annotation	documentation Supports legacy EDMS studies relating to the TAXIWAYS table. Taxi nodes define the points for a given taxiway.

element **taxipath**

diagram	 <p>Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.</p> <p>1..∞  References an existing taxiway.</p> <p>References an existing gate.</p> <p>References an existing runway.</p> <p>Direction of the taxipath. Valid values: Inbound or Outbound.</p>
properties	content complex

children	<a href="#">gateName</a> <a href="#">runwayName</a> <a href="#">direction</a> <a href="#">taxiwayName</a>
used by	element <a href="#">taxipathSet</a>
annotation	documentation Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.

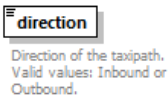
#### element [taxipath/gateName](#)

diagram	 References an existing gate.
type	<a href="#">string40</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation References an existing gate.

#### element [taxipath/runwayName](#)

diagram	 References an existing runway.
type	<a href="#">string8</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation References an existing runway.

#### element [taxipath/direction](#)

diagram	 Direction of the taxipath. Valid values: Inbound or Outbound.
type	<a href="#">directionType</a>
properties	content simple
facets	Kind Value Annotation pattern A Arrival D Departure I Inbound O Outbound
annotation	documentation Direction of the taxipath. Valid values: Inbound or Outbound.

#### element [taxipath/taxiwayName](#)

diagram	 References an existing taxiway.
type	<a href="#">string20</a>
properties	minOcc 1 maxOcc unbounded content simple
facets	Kind Value Annotation minLength 0 maxLength 20
annotation	documentation References an existing taxiway.



element **taxipathSet**

diagram	<p>Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.</p> <p>1..∞</p> <p>Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.</p>
properties	content complex
children	<a href="#">taxipath</a>
used by	complexType <a href="#">airportLayoutType</a>
annotation	documentation Supports legacy EDMS studies relating to the TAXIPATHS table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.

element **taxiTime**

diagram	
properties	content complex
children	<a href="#">source</a> <a href="#">taxiIn</a> <a href="#">taxiOut</a>
used by	complexType <a href="#">airport</a>

element **taxiTime/source**

diagram	
type	<b>string6</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 6

element **taxiTime/taxiIn**

diagram	
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple

element **taxiTime/taxiOut**

diagram	
type	<b>xs:int</b>
properties	minOcc 0

	maxOcc 1 content simple
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element **taxiway**

diagram	<p><b>taxiway</b> Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.</p> <p><b>name</b> Identifying name for taxiway.</p> <p><b>dispersionWidth</b> Width of emission dispersion around taxiway. Valid values: 0 to 100. (m)</p> <p><b>taxiNodeSet</b> Supports legacy EDMS studies relating to the TAXIWAYS table. Taxi nodes define the points for a given taxiway.</p>
properties	content complex
children	<a href="#">name</a> <a href="#">dispersionWidth</a> <a href="#">taxiNodeSet</a>
used by	element <a href="#">taxiwaySet</a>
annotation	documentation Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.

element **taxiway/name**

diagram	<p><b>name</b> Identifying name for taxiway.</p>
type	<a href="#">string20</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 20
annotation	documentation Identifying name for taxiway.

element **taxiway/dispersionWidth**

diagram	<p><b>dispersionWidth</b> Width of emission dispersion around taxiway. Valid values: 0 to 100. (m)</p>
type	<a href="#">doubleExclusive100</a>
properties	minOcc 0 maxOcc 1 content simple default 1
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation Width of emission dispersion around taxiway. Valid values: 0 to 100. (m)

element **taxiwaySet**

diagram	<p><b>taxiwaySet</b> Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.</p> <p><b>taxiway</b> Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.</p> <p>1..∞</p>
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properties	content complex
children	<a href="#">taxiway</a>
used by	complexType <a href="#">airportLayoutType</a>
annotation	documentation Supports legacy EDMS studies relating to the TAXIWAYS table. Taxiways determine the ground segments where the aircraft operates.

#### element track

diagram	
properties	content complex
children	<a href="#">name</a> <a href="#">optype</a> <a href="#">wingtype</a> <a href="#">airport</a> <a href="#">runway</a> <a href="#">vectorCourseHelipad</a> <a href="#">backbone</a> <a href="#">subtrack</a>
used by	elements <a href="#">trackOpSet</a> <a href="#">trackSet</a>
annotation	documentation A flight track that can be used for flight operations.

#### element track/name

diagram	
type	<a href="#">string64</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 64
annotation	documentation The name of the track.

#### element track/optype

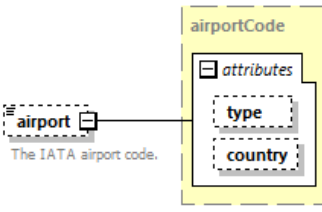
diagram	
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type	<a href="#">trackType</a>
properties	content simple
facets	Kind Value Annotation pattern A Arrival D Departure V Overflight T TouchAndGo X ArrivalHeliTaxi O DepartureHeliTaxi
annotation	documentation Type of track. (A = arrival, D = departure, V = overflight, T = Touch and Go)

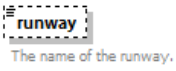
#### element [track/wingtype](#)

diagram	
type	<a href="#">wingType</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern F FixedWing R RotaryWing
annotation	documentation Type of wing. (F = fixed wing, R = rotary wing)

#### element [track/airport](#)

diagram																			
type	<a href="#">airportCode</a>																		
properties	minOcc 0 maxOcc 1 content complex																		
facets	Kind Value Annotation minLength 0 maxLength 4																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><a href="#">airportCodeType</a></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> <tr> <td><a href="#">country</a></td> <td><a href="#">string3</a></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY			<a href="#">country</a>	<a href="#">string3</a>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY																
<a href="#">country</a>	<a href="#">string3</a>	optional	ANY																
annotation	documentation The IATA airport code.																		

#### element [track/runway](#)

diagram	
type	<a href="#">string8</a>
properties	minOcc 0 maxOcc 1 content simple
used by	element <a href="#">runwaySet</a>
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation The name of the runway.

#### element [track/vectorCourseHelipad](#)

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diagram	<div style="border: 1px dashed black; padding: 2px; display: inline-block;"> <b>vectorCourseHelipad</b> </div> Direction for helicopter operations of vector type (angle from North).
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Direction for helicopter operations of vector type (angle from North).

element **trackNode**

diagram	<p>The diagram illustrates the structure of the <b>trackNode</b> element. It is a flight track node that contains several sub-elements and attributes:</p> <ul style="list-style-type: none"> <li><b>nodeIdGroup</b>: A group of nodes, containing an <b>id</b> attribute (string identifier) and an optional <b>description</b> attribute.</li> <li><b>coord2DGroup</b>: Indicates how a two-dimensional group is specified, containing <b>altitude</b> (Node's altitude above or below MSL (ft). Includes attribute node.) and <b>speed</b> (Speed of aircraft at node. Includes attribute node. Valid values: nonnegative. (kts)).</li> <li><b>latlonCoordGroup</b>: Specifies a coordinate using latitude and longitude, containing:       <ul style="list-style-type: none"> <li><b>latitude</b>: Latitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>latitudeDMS</b>: Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> <li><b>longitude</b>: Longitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>longitudeDMS</b>: Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> </ul> </li> <li><b>utmCoordGroup</b>: Specifies a point using Universal Transverse Mercator coordinates, containing:       <ul style="list-style-type: none"> <li><b>utmN</b>: UTM Northing of the point in decimal meters north of the equator.</li> <li><b>utmE</b>: UTM Easting of the point in decimal meters east from a central meridian.</li> <li><b>utmZone</b>: UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</li> </ul> </li> </ul>
properties	content complex
children	<b>id description latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone altitude speed</b>
used by	elements <b>backboneNode trackNodes</b>
annotation	documentation A flight track node.

element **trackNode/altitude**

diagram	
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diagram	<p><b>altitude</b> Node's altitude above or below MSL (ft). Includes attribute node.</p>												
type	extension of <b>xs:double</b>												
properties	minOcc 0 maxOcc 1 content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">control</a></td> <td><b>nodeControlType</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">control</a>	<b>nodeControlType</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">control</a>	<b>nodeControlType</b>	optional											
annotation	documentation Node's altitude above or below MSL (ft). Includes attribute node.												

attribute **trackNode/altitude/@control**

type	<b>nodeControlType</b>						
properties	use optional						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>0 None 1 AtOrBelow 2 Match 3 AtOrAbove</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	0 None 1 AtOrBelow 2 Match 3 AtOrAbove	
Kind	Value	Annotation					
pattern	0 None 1 AtOrBelow 2 Match 3 AtOrAbove						

element **trackNode/speed**

diagram	<p><b>speed</b> Speed of aircraft at node. Includes attribute node. Valid values: nonnegative. (kts)</p>												
type	extension of <b>xs:double</b>												
properties	minOcc 0 maxOcc 1 content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">control</a></td> <td><b>nodeControlType</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">control</a>	<b>nodeControlType</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">control</a>	<b>nodeControlType</b>	optional											
annotation	documentation Speed of aircraft at node. Includes attribute node. Valid values: nonnegative. (kts)												

attribute **trackNode/speed/@control**

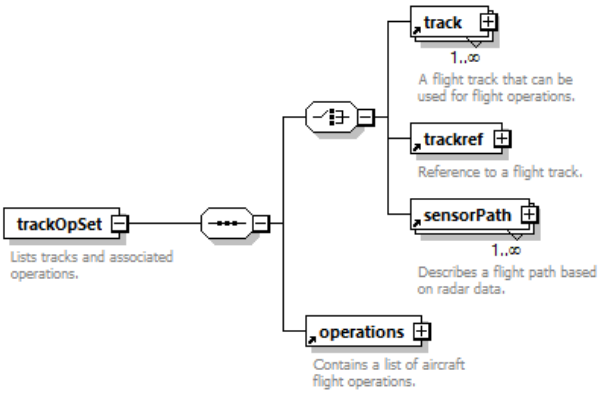
type	<b>nodeControlType</b>						
properties	use optional						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>0 None 1 AtOrBelow 2 Match 3 AtOrAbove</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	0 None 1 AtOrBelow 2 Match 3 AtOrAbove	
Kind	Value	Annotation					
pattern	0 None 1 AtOrBelow 2 Match 3 AtOrAbove						

element **trackNodes**

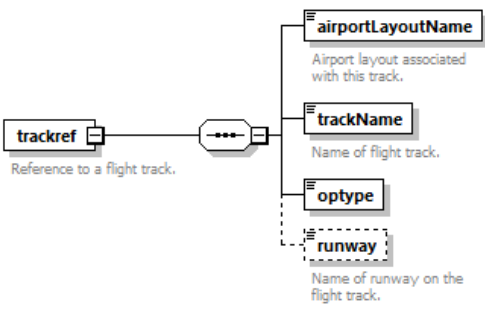
diagram	<p><b>trackNodes</b> A set of flight track nodes</p> <p><b>trackNode</b> A flight track node. 1..∞</p>
properties	content complex
children	<b>trackNode</b>
used by	element <b>subtrack</b>
annotation	documentation A set of flight track nodes

element **trackOpSet**

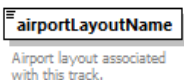
diagram	
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	 <p>The diagram shows the structure of the <b>trackOpSet</b> element. It is a container element (rectangle with a plus sign) that contains a sequence of elements (rectangle with three dots). This sequence includes: <ul style="list-style-type: none"> <li><b>operations</b>: Contains a list of aircraft flight operations.</li> <li><b>track</b>: A flight track that can be used for flight operations. (Multiplicity: 1..∞)</li> <li><b>trackref</b>: Reference to a flight track.</li> <li><b>sensorPath</b>: Describes a flight path based on radar data. (Multiplicity: 1..∞)</li> </ul> </p>
properties	content complex
children	<a href="#">track</a> <a href="#">trackref</a> <a href="#">sensorPath</a> <a href="#">operations</a>
used by	elements <a href="#">AsifXml case</a>
annotation	documentation Lists tracks and associated operations.


element **trackref**

diagram	 <p>The diagram shows the structure of the <b>trackref</b> element. It is a container element (rectangle with a plus sign) that contains a sequence of elements (rectangle with three dots). This sequence includes: <ul style="list-style-type: none"> <li><b>airportLayoutName</b>: Airport layout associated with this track.</li> <li><b>trackName</b>: Name of flight track.</li> <li><b>optype</b></li> <li><b>runway</b>: Name of runway on the flight track.</li> </ul> </p>
properties	content complex
children	<a href="#">airportLayoutName</a> <a href="#">trackName</a> <a href="#">optype</a> <a href="#">runway</a>
used by	element <a href="#">trackOpSet</a>
annotation	documentation Reference to a flight track.

element **trackref/airportLayoutName**

diagram	 <p>The diagram shows the structure of the <b>airportLayoutName</b> element. It is a simple content element (rectangle with a plus sign) representing the text content.</p>
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airport layout associated with this track.

element **trackref/trackName**

diagram	 <p>The diagram shows the structure of the <b>trackName</b> element. It is a simple content element (rectangle with a plus sign) representing the text content.</p>
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255

annotation	documentation Name of flight track.
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element **trackref/optype**

diagram	
type	<b>trackType</b>
properties	content simple
facets	Kind Value Annotation pattern A Arrival D Departure V Overflight T TouchAndGo X ArrivalHeliTaxi O DepartureHeliTaxi

element **trackref/runway**

diagram	
type	<b>string8</b>
properties	minOcc 0 maxOcc 1 content simple
used by	element <b>runwaySet</b>
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Name of runway on the flight track.

element **trackSet**

diagram	
properties	content complex
children	<b>track</b>
used by	complexType <b>airportLayoutType</b>
annotation	documentation A set of flight tracks.


element **trackVector**

diagram	
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properties	content complex
children	<a href="#">id</a> <a href="#">description</a> <a href="#">type</a> <a href="#">distance</a> <a href="#">angle</a> <a href="#">radius</a>
used by	element <a href="#">trackVectors</a>
annotation	documentation A flight track vector.


#### element [trackVector](#)/type

diagram	 <p>Type of vector. Valid values: S = Straight, L = LeftTurn, R = RightTurn.</p>						
type	<a href="#">vectorTrackType</a>						
properties	content simple						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>S Straight L LeftTurn R RightTurn</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	S Straight L LeftTurn R RightTurn	
Kind	Value	Annotation					
pattern	S Straight L LeftTurn R RightTurn						
annotation	documentation Type of vector. Valid values: S = Straight, L = LeftTurn, R = RightTurn.						


#### element [trackVector](#)/distance

diagram	 <p>Distance flown along this vector. Valid values: nonnegative. (nmi)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Distance flown along this vector. Valid values: nonnegative. (nmi)

#### element [trackVector](#)/angle

diagram	 <p>Angle of the vector. (degrees)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Angle of the vector. (degrees)

#### element [trackVector](#)/radius

diagram	 <p>Radius of the vector. Valid values: nonnegative. (nmi)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Radius of the vector. Valid values: nonnegative. (nmi)

#### element [trackVectors](#)

diagram	 <p>A list of flight track vectors.</p> <p>A flight track vector.</p>
properties	content complex
children	<a href="#">trackVector</a>
used by	element <a href="#">subtrack</a>
annotation	documentation

A list of flight track vectors.

element **userDefinedAirportSet**

diagram													
properties	content complex												
children	<b>userDefinedAirport</b>												
used by	element <b>study</b>												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><b>dummy</b></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<b>dummy</b>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<b>dummy</b>	<b>xs:int</b>	optional											
annotation	documentation Contains user-defined airports.												

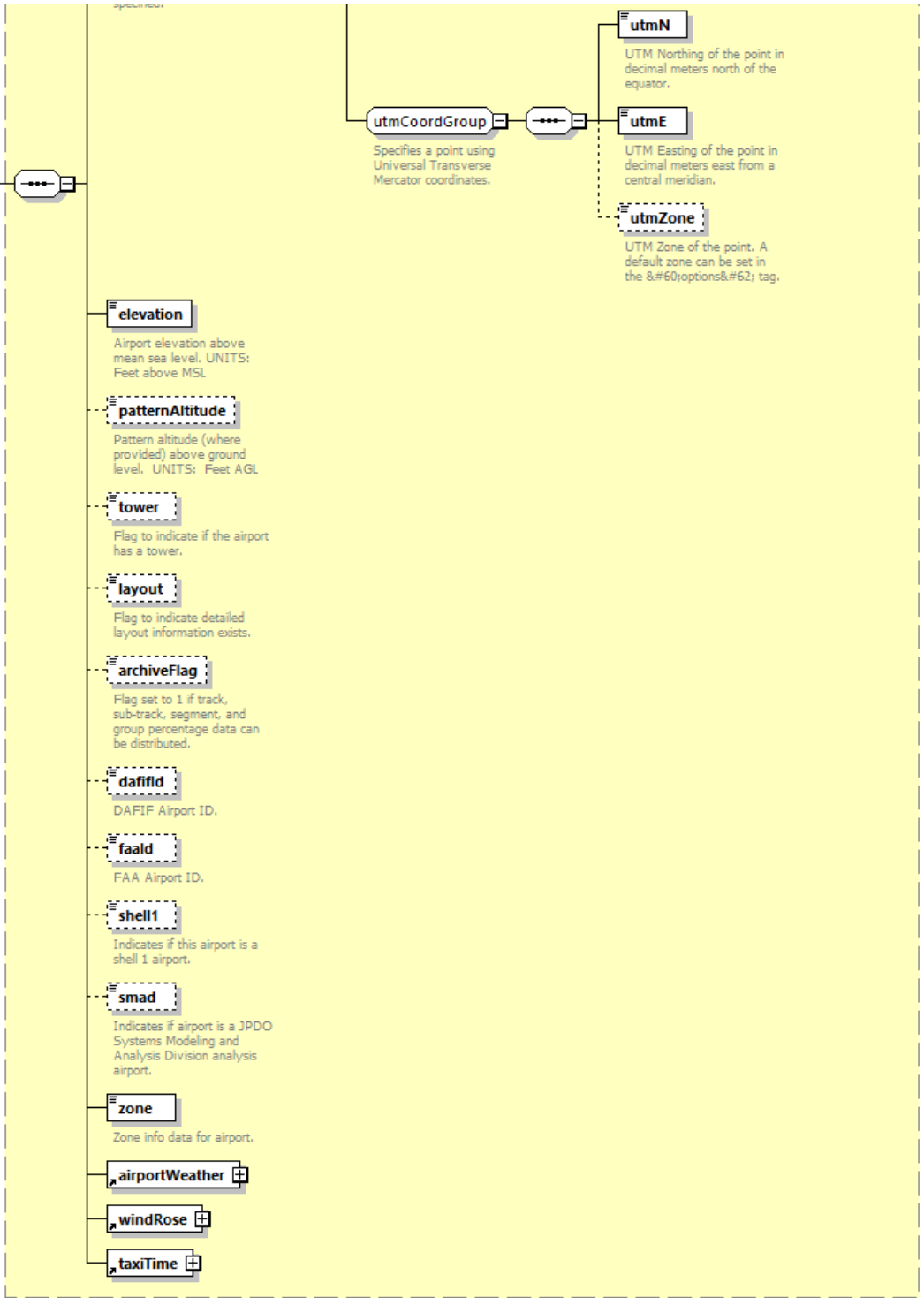
attribute **userDefinedAirportSet/@dummy**

type	<b>xs:int</b>
properties	use optional

element **userDefinedAirportSet/userDefinedAirport**

diagram	
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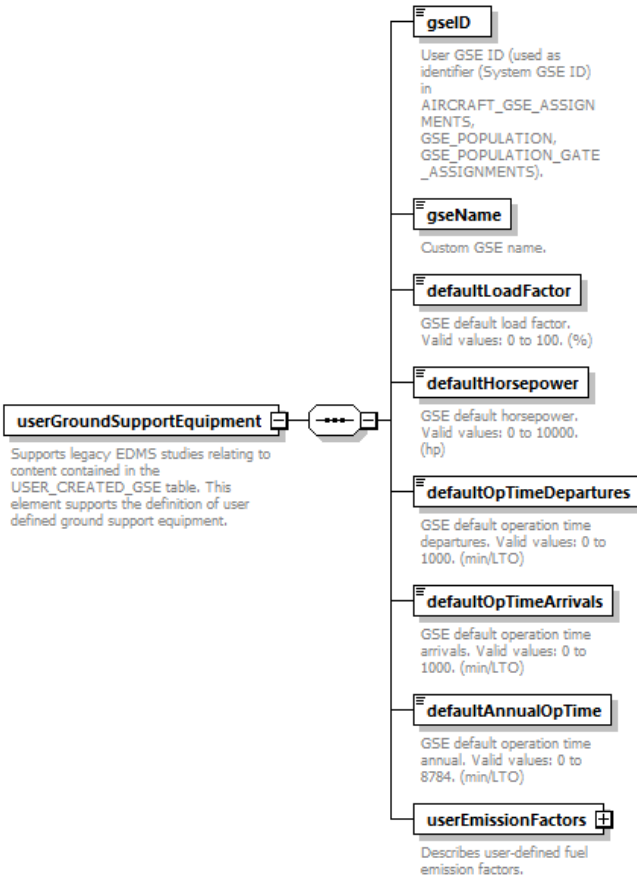
**userDefinedAirport**  
1..∞  
Contains information for each user-defined airport. APT\_CODE must not duplicate an existing system airport.



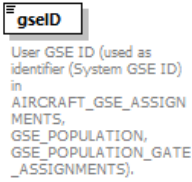
type	<b>airport</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>airportCode</b> <b>effDate</b> <b>expDate</b> <b>name</b> <b>state</b> <b>facilityType</b> <b>cityName</b> <b>latitude</b> <b>latitudeDMS</b> <b>longitude</b> <b>longitudeDMS</b> <b>utmN</b> <b>utmE</b> <b>utmZone</b> <b>elevation</b> <b>patternAltitude</b> <b>tower</b> <b>layout</b> <b>archiveFlag</b> <b>dafifd</b> <b>faald</b> <b>shell1</b> <b>smad</b> <b>zone</b> <b>airportWeather</b> <b>windRose</b> <b>taxiTime</b>
annotation	documentation Contains information for each user-defined airport. APT_CODE must not duplicate an existing system airport.

element **userGroundSupportEquipment**


diagram	
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	 <p><b>userGroundSupportEquipment</b></p> <p>Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.</p> <ul style="list-style-type: none"> <li><b>gseID</b>: User GSE ID (used as identifier (System GSE ID) in AIRCRAFT_GSE_ASSIGNMENTS, GSE_POPULATION, GSE_POPULATION_GATE_ASSIGNMENTS).</li> <li><b>gseName</b>: Custom GSE name.</li> <li><b>defaultLoadFactor</b>: GSE default load factor. Valid values: 0 to 100, (%)</li> <li><b>defaultHorsepower</b>: GSE default horsepower. Valid values: 0 to 10000, (hp)</li> <li><b>defaultOpTimeDepartures</b>: GSE default operation time departures. Valid values: 0 to 1000, (min/LTO)</li> <li><b>defaultOpTimeArrivals</b>: GSE default operation time arrivals. Valid values: 0 to 1000, (min/LTO)</li> <li><b>defaultAnnualOpTime</b>: GSE default operation time annual. Valid values: 0 to 8784, (min/LTO)</li> <li><b>userEmissionFactors</b>: Describes user-defined fuel emission factors.</li> </ul>
properties	content complex
children	<b>gseID gseName defaultLoadFactor defaultHorsepower defaultOpTimeDepartures defaultOpTimeArrivals defaultAnnualOpTime userEmissionFactors</b>
used by	element <b>userGroundSupportEquipmentSet</b>
annotation	documentation Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.

element **userGroundSupportEquipment/gseID**

diagram	 <p><b>gseID</b></p> <p>User GSE ID (used as identifier (System GSE ID) in AIRCRAFT_GSE_ASSIGNMENTS, GSE_POPULATION, GSE_POPULATION_GATE_ASSIGNMENTS).</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation User GSE ID (used as identifier (System GSE ID) in AIRCRAFT_GSE_ASSIGNMENTS, GSE_POPULATION, GSE_POPULATION_GATE_ASSIGNMENTS).


element **userGroundSupportEquipment/gseName**

diagram	 <p><b>gseName</b></p> <p>Custom GSE name.</p>
type	<b>string40</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation Custom GSE name.

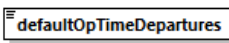
element **userGroundSupportEquipment/defaultLoadFactor**

diagram	 <p>GSE default load factor. Valid values: 0 to 100. (%)</p>
type	<b>doubleInclusive1</b>
properties	content simple
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation GSE default load factor. Valid values: 0 to 100. (%)

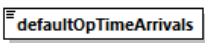
element **userGroundSupportEquipment/defaultHorsepower**

diagram	 <p>GSE default horsepower. Valid values: 0 to 10000. (hp)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation GSE default horsepower. Valid values: 0 to 10000. (hp)

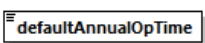
element **userGroundSupportEquipment/defaultOpTimeDepartures**

diagram	 <p>GSE default operation time departures. Valid values: 0 to 1000. (min/LTO)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation GSE default operation time departures. Valid values: 0 to 1000. (min/LTO)

element **userGroundSupportEquipment/defaultOpTimeArrivals**

diagram	 <p>GSE default operation time arrivals. Valid values: 0 to 1000. (min/LTO)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation GSE default operation time arrivals. Valid values: 0 to 1000. (min/LTO)

element **userGroundSupportEquipment/defaultAnnualOpTime**

diagram	 <p>GSE default operation time annual. Valid values: 0 to 8784. (min/LTO)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation GSE default operation time annual. Valid values: 0 to 8784. (min/LTO)

element **userGroundSupportEquipment/userEmissionFactors**

diagram	
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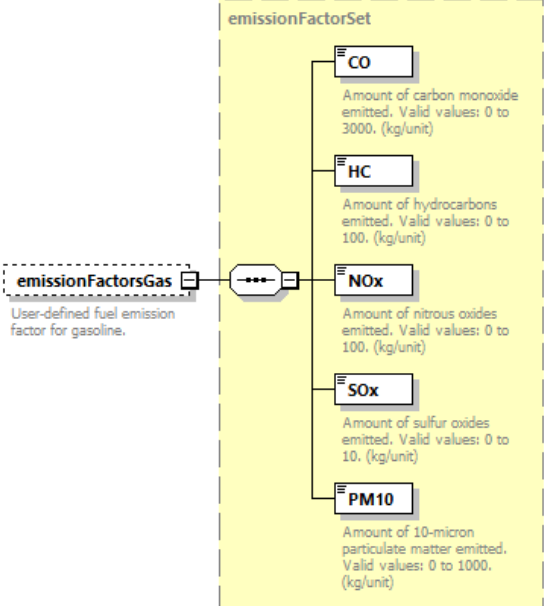
	<pre> classDiagram     class userEmissionFactors {         Describes user-defined fuel emission factors.     }     class emissionFactorsDiesel {         User-defined fuel emission factor for diesel.     }     class emissionFactorsGas {         User-defined fuel emission factor for gasoline.     }     class emissionFactorsCNG {         User-defined fuel emission factor for compressed natural gas.     }     class emissionFactorsLPG {         User-defined fuel emission factor for liquefied petroleum gas.     }     userEmissionFactors &lt; -- emissionFactorsDiesel     userEmissionFactors &lt; -- emissionFactorsGas     userEmissionFactors &lt; -- emissionFactorsCNG     userEmissionFactors &lt; -- emissionFactorsLPG         </pre>
properties	content complex
children	<a href="#">emissionFactorsDiesel</a> <a href="#">emissionFactorsGas</a> <a href="#">emissionFactorsCNG</a> <a href="#">emissionFactorsLPG</a>
annotation	documentation Describes user-defined fuel emission factors.

element **userGroundSupportEquipment/userEmissionFactors/emissionFactorsDiesel**

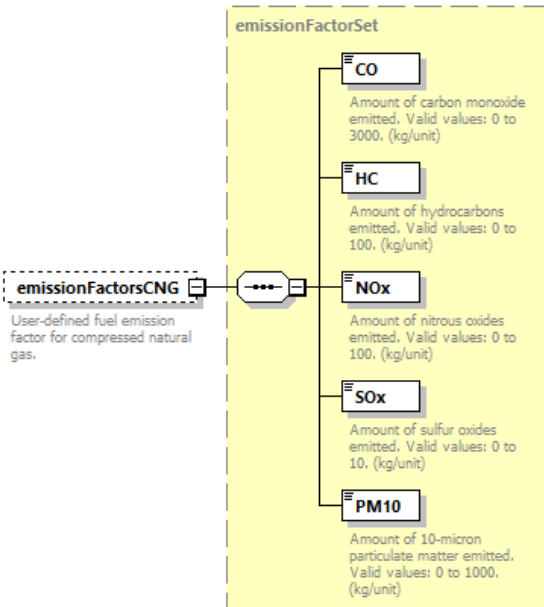
diagram	<pre> classDiagram     class emissionFactorSet {         User-defined fuel emission factor for diesel.     }     class CO {         Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)     }     class HC {         Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)     }     class NOx {         Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)     }     class SOx {         Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)     }     class PM10 {         Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)     }     emissionFactorSet &lt; -- CO     emissionFactorSet &lt; -- HC     emissionFactorSet &lt; -- NOx     emissionFactorSet &lt; -- SOx     emissionFactorSet &lt; -- PM10         </pre>
type	<a href="#">emissionFactorSet</a>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM10</a>
annotation	documentation User-defined fuel emission factor for diesel.

element **userGroundSupportEquipment/userEmissionFactors/emissionFactorsGas**

diagram	
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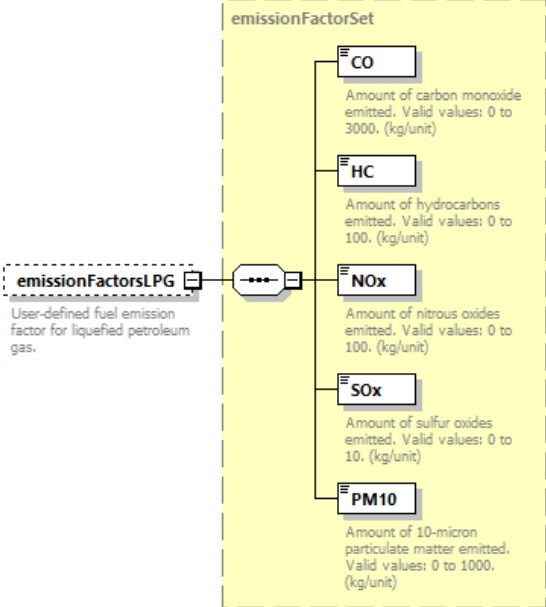
	 <p>The diagram shows a dashed box labeled <b>emissionFactorsGas</b> containing the text "User-defined fuel emission factor for gasoline." This box is connected to a central node, which in turn branches into five sub-nodes within a larger dashed box labeled <b>emissionFactorSet</b>. The sub-nodes are: <ul style="list-style-type: none"> <li><b>CO</b>: Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)</li> <li><b>HC</b>: Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>NOx</b>: Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>SOx</b>: Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)</li> <li><b>PM10</b>: Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)</li> </ul> </p>
type	<b>emissionFactorSet</b>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM10</a>
annotation	documentation User-defined fuel emission factor for gasoline.

element **userGroundSupportEquipment/userEmissionFactors/emissionFactorsCNG**

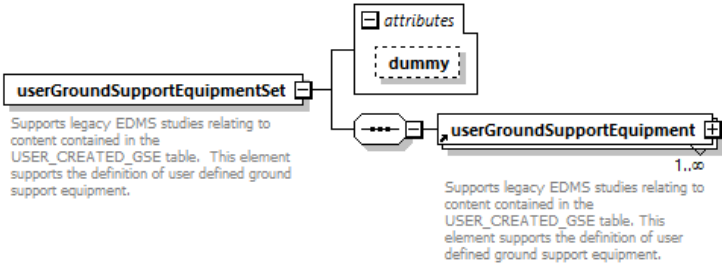
diagram	 <p>The diagram shows a dashed box labeled <b>emissionFactorsCNG</b> containing the text "User-defined fuel emission factor for compressed natural gas." This box is connected to a central node, which in turn branches into five sub-nodes within a larger dashed box labeled <b>emissionFactorSet</b>. The sub-nodes are: <ul style="list-style-type: none"> <li><b>CO</b>: Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)</li> <li><b>HC</b>: Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>NOx</b>: Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>SOx</b>: Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)</li> <li><b>PM10</b>: Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)</li> </ul> </p>
type	<b>emissionFactorSet</b>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM10</a>
annotation	documentation User-defined fuel emission factor for compressed natural gas.

element **userGroundSupportEquipment/userEmissionFactors/emissionFactorsLPG**

diagram	
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	 <p>The diagram shows a dashed box labeled <b>emissionFactorSet</b> containing five elements: <b>CO</b>, <b>HC</b>, <b>NOx</b>, <b>SOx</b>, and <b>PM10</b>. Each element has a description and valid value range: <ul style="list-style-type: none"> <li><b>CO</b>: Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)</li> <li><b>HC</b>: Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>NOx</b>: Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>SOx</b>: Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)</li> <li><b>PM10</b>: Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)</li> </ul> </p> <p>Outside the dashed box, an element <b>emissionFactorsLPG</b> is shown with a description: "User-defined fuel emission factor for liquefied petroleum gas." It is connected to the <b>emissionFactorSet</b> box via a connector.</p>
type	<b>emissionFactorSet</b>
properties	minOcc 0 maxOcc 1 content complex
children	<a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM10</a>
annotation	documentation User-defined fuel emission factor for liquefied petroleum gas.

element **userGroundSupportEquipmentSet**

diagram	 <p>The diagram shows the <b>userGroundSupportEquipmentSet</b> element connected to an <b>attributes</b> box and a <b>userGroundSupportEquipment</b> element. The <b>attributes</b> box contains a <b>dummy</b> attribute. The <b>userGroundSupportEquipment</b> element has a cardinality of 1..∞. Both the element and its child have the same description: "Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment."</p>												
properties	content complex												
children	<a href="#">userGroundSupportEquipment</a>												
used by	elements <a href="#">AsifXml study</a> .												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">dummy</a></td> <td><b>xs:int</b></td> <td>optional</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">dummy</a>	<b>xs:int</b>	optional			
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">dummy</a>	<b>xs:int</b>	optional											
annotation	documentation Supports legacy EDMS studies relating to content contained in the USER_CREATED_GSE table. This element supports the definition of user defined ground support equipment.												

attribute **userGroundSupportEquipmentSet/@dummy**

type	<b>xs:int</b>
properties	use optional

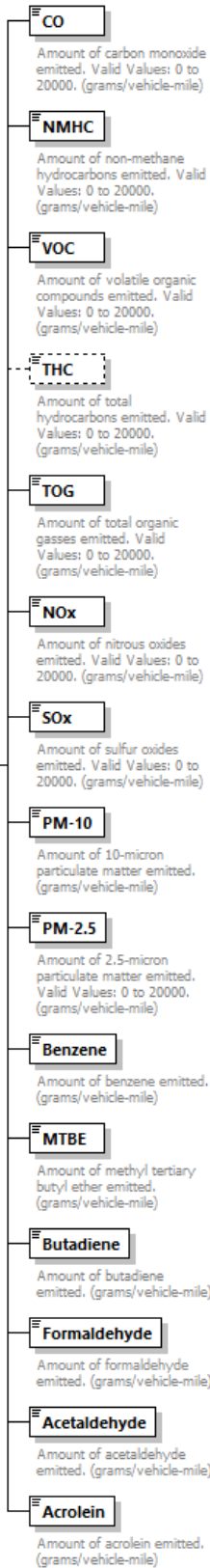
element **vehicleEmissionFactors**

diagram	
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


**vehicleEmissionFactors**


Supports legacy EDMS studies relating to content contained in the ROADWAYS/PARKING table. This element supports the definition of custom emission factor specifications for roadways and parking.




properties	content complex
children	<a href="#">CO</a> <a href="#">NMHC</a> <a href="#">VOC</a> <a href="#">THC</a> <a href="#">TOG</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM-10</a> <a href="#">PM-2.5</a> <a href="#">Benzene</a> <a href="#">MTBE</a> <a href="#">Butadiene</a> <a href="#">Formaldehyde</a> <a href="#">Acetaldehyde</a> <a href="#">Acrolein</a>
used by	elements <a href="#">parkingFacilityOperation</a> <a href="#">roadwayOperation</a>
annotation	documentation Supports legacy EDMS studies relating to content contained in the ROADWAYS/PARKING table. This element supports the definition of custom emission factor specifications for roadways and parking.

diagram	 <p>Amount of carbon monoxide emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of carbon monoxide emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)


element **vehicleEmissionFactors/NMHC**

diagram	 <p>Amount of non-methane hydrocarbons emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of non-methane hydrocarbons emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)


element **vehicleEmissionFactors/VOC**

diagram	 <p>Amount of volatile organic compounds emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of volatile organic compounds emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)


element **vehicleEmissionFactors/THC**

diagram	 <p>Amount of total hydrocarbons emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of total hydrocarbons emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)

element **vehicleEmissionFactors/TOG**

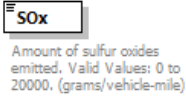
diagram	 <p>Amount of total organic gasses emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of total organic gasses emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)

element **vehicleEmissionFactors/NOx**

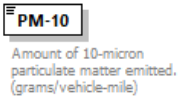
diagram	 <p>Amount of nitrous oxides emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)</p>
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type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of nitrous oxides emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)

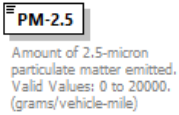
element **vehicleEmissionFactors/SOx**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of sulfur oxides emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)

element **vehicleEmissionFactors/PM-10**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of 10-micron particulate matter emitted. (grams/vehicle-mile)

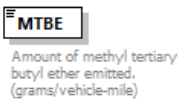
element **vehicleEmissionFactors/PM-2.5**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of 2.5-micron particulate matter emitted. Valid Values: 0 to 20000. (grams/vehicle-mile)

element **vehicleEmissionFactors/Benzene**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of benzene emitted. (grams/vehicle-mile)

element **vehicleEmissionFactors/MTBE**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of methyl tertiary butyl ether emitted. (grams/vehicle-mile)

element **vehicleEmissionFactors/Butadiene**

diagram	
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diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>Butadiene</b> </div> Amount of butadiene emitted. (grams/vehicle-mile)
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of butadiene emitted. (grams/vehicle-mile)

element **vehicleEmissionFactors/Formaldehyde**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>Formaldehyde</b> </div> Amount of formaldehyde emitted. (grams/vehicle-mile)
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of formaldehyde emitted. (grams/vehicle-mile)

element **vehicleEmissionFactors/Acetaldehyde**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>Acetaldehyde</b> </div> Amount of acetaldehyde emitted. (grams/vehicle-mile)
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of acetaldehyde emitted. (grams/vehicle-mile)

element **vehicleEmissionFactors/Acrolein**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>Acrolein</b> </div> Amount of acrolein emitted. (grams/vehicle-mile)
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of acrolein emitted. (grams/vehicle-mile)

element **volumeStationarySource**

diagram	<p><b>volumeStationarySource</b> Specifies the volume in space occupied by a stationary source of emissions.</p> <ul style="list-style-type: none"> <li><b>pointCoord</b> Type of 2D coordinates specifying the volume.</li> <li><b>baseElevation</b> Height of volume. (m)</li> <li><b>releaseHeight</b> Height at which emissions are released into the atmosphere. Valid values 0 to 100 (m)</li> <li><b>sigmaZ</b> Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: 0.1 to 100.0, (m)</li> <li><b>sigmaY</b> Horizontal dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: 0.1 to 100.0, (m)</li> </ul>
properties	content complex

children	<a href="#">pointCoord</a> <a href="#">baseElevation</a> <a href="#">releaseHeight</a> <a href="#">sigmaZ</a> <a href="#">sigmaY</a>
used by	element <a href="#">stationarySource</a>
annotation	documentation Specifies the volume in space occupied by a stationary source of emissions.

element **volumeStationarySource/pointCoord**

diagram	
type	<a href="#">coord2DType</a>
properties	content complex
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
annotation	documentation Type of 2D coordinates specifying the volume.

element **volumeStationarySource/baseElevation**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Height of volume. (m)

element **volumeStationarySource/releaseHeight**

diagram	
type	<a href="#">doubleInclusive100</a>
properties	minOcc 0 maxOcc 1 content simple default 0

facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation Height at which emissions are released into the atmosphere. Valid values 0 to 100 (m)

element **volumeStationarySource/sigmaZ**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Vertical dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: 0.1 to 100.0. (m)

element **volumeStationarySource/sigmaY**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Horizontal dispersion parameter. For additional information, see the EDMS Application Manual. Valid values: 0.1 to 100.0. (m)

element **weatherData**

diagram	
properties	content complex
children	<a href="#">month</a> <a href="#">temperature</a> <a href="#">seaLevelPressure</a> <a href="#">stationPressure</a> <a href="#">dewPoint</a> <a href="#">relativeHumidity</a> <a href="#">windSpeed</a> <a href="#">meanTemperature</a>
used by	element <a href="#">airportWeatherStation</a>

element **weatherData/month**

diagram	
type	<b>string3</b>
properties	content simple
facets	Kind Value Annotation

	minLength 0 maxLength 3
--	----------------------------

element **weatherData/temperature**

diagram	
type	<b>xs:decimal</b>
properties	minOcc 0 maxOcc 1 content simple

element **weatherData/seaLevelPressure**

diagram	
type	<b>xs:decimal</b>
properties	minOcc 0 maxOcc 1 content simple

element **weatherData/stationPressure**

diagram	
type	<b>xs:decimal</b>
properties	minOcc 0 maxOcc 1 content simple

element **weatherData/dewPoint**

diagram	
type	<b>xs:decimal</b>
properties	minOcc 0 maxOcc 1 content simple

element **weatherData/relativeHumidity**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple

element **weatherData/windSpeed**

diagram	
type	<b>xs:decimal</b>
properties	content simple

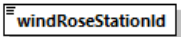
element **weatherData/meanTemperature**

diagram	
type	<b>xs:decimal</b>
properties	minOcc 0 maxOcc 1 content simple

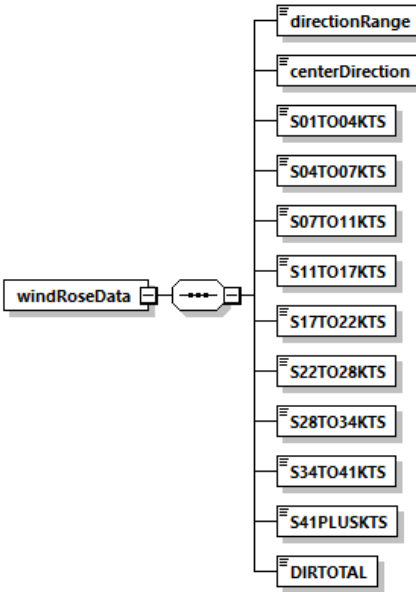
element **windRose**

diagram	
properties	content complex
children	<a href="#">windRoseStationId</a> <a href="#">windRoseStation</a>
used by	complexType <a href="#">airport</a>

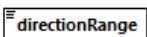
element **windRose/windRoseStationId**

diagram	
type	<a href="#">string5</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 5

element **windRoseData**

diagram	
properties	content complex
children	<a href="#">directionRange</a> <a href="#">centerDirection</a> <a href="#">S01TO04KTS</a> <a href="#">S04TO07KTS</a> <a href="#">S07TO11KTS</a> <a href="#">S11TO17KTS</a> <a href="#">S17TO22KTS</a> <a href="#">S22TO28KTS</a> <a href="#">S28TO34KTS</a> <a href="#">S34TO41KTS</a> <a href="#">S41PLUSKTS</a> <a href="#">DIRTOTAL</a>
used by	element <a href="#">windRoseStation</a>

element **windRoseData/directionRange**

diagram	
type	<a href="#">string14</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 14

element **windRoseData/centerDirection**

diagram	
type	<a href="#">xs:int</a>



properties	content simple
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element **windRoseData/S01TO04KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S04TO07KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S07TO11KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S11TO17KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S17TO22KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S22TO28KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S28TO34KTS**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S34TO41KTS**


diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseData/S41PLUSKTS**

diagram	
properties	content simple

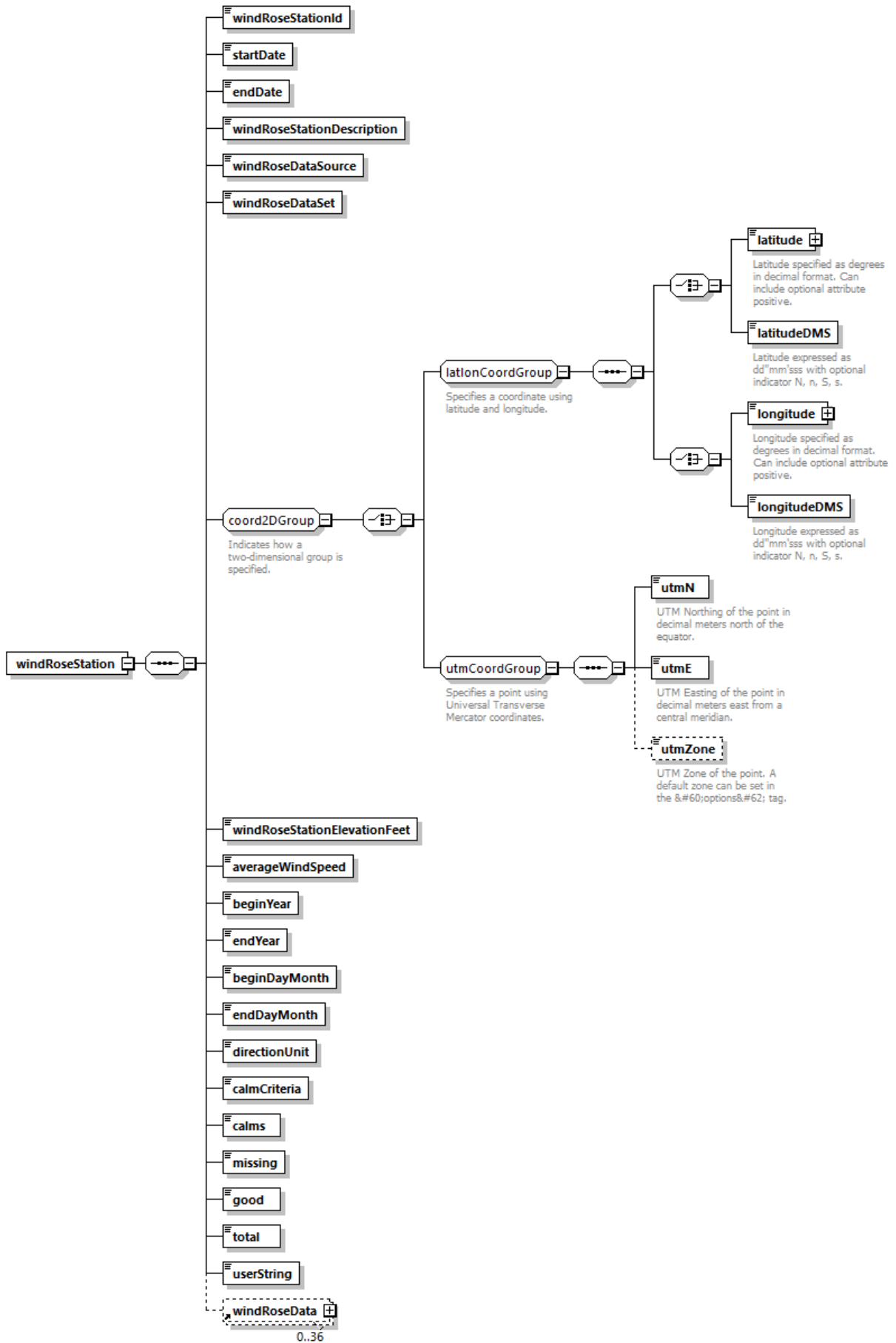
type	<b>xs:int</b>
properties	content simple

element **windRoseData/DIRTOTAL**

diagram	 A diagram showing a rectangular box with the text "DIRTOTAL" inside. To the left of the box is a small square icon with a horizontal line through it, representing a data element.
type	<b>xs:int</b>
properties	content simple

element **windRoseStation**

diagram	
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properties content complex

children [windRoseStationId](#) [startDate](#) [endDate](#) [windRoseStationDescription](#) [windRoseDataSource](#) [windRoseDataSet](#) [latitude](#) [latitudeDMS](#) [longitude](#) [longitudeDMS](#) [utmN](#) [utmE](#) [utmZone](#) [windRoseStationElevationFeet](#) [averageWindSpeed](#) [beginYear](#) [endYear](#) [beginDayMonth](#) [endDayMonth](#) [directionUnit](#) [calmCriteria](#) [calms](#) [missing](#) [good](#) [total](#)

	<a href="#">userString</a> <a href="#">windRoseData</a>
used by	element <a href="#">windRose</a>

element **windRoseStation/windRoseStationId**

diagram	
type	<a href="#">string5</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 5

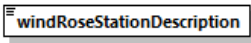
element **windRoseStation/startDate**

diagram	
type	<a href="#">xs:date</a>
properties	content simple

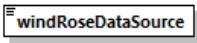
element **windRoseStation/endDate**

diagram	
type	<a href="#">xs:date</a>
properties	content simple


element **windRoseStation/windRoseStationDescription**

diagram	
type	<a href="#">string42</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 42

element **windRoseStation/windRoseDataSource**

diagram	
type	<a href="#">string32</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 32

element **windRoseStation/windRoseDataSet**

diagram	
type	<a href="#">string66</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 66

element **windRoseStation/windRoseStationElevationFeet**

diagram	
type	<a href="#">xs:int</a>

properties	content simple
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element **windRoseStation/averageWindSpeed**

diagram	
type	<b>xs:double</b>
properties	content simple

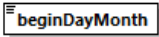
element **windRoseStation/beginYear**

diagram	
type	<b>xs:int</b>
properties	content simple

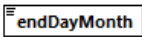
element **windRoseStation/endYear**

diagram	
type	<b>xs:int</b>
properties	content simple

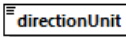
element **windRoseStation/beginDayMonth**

diagram	
type	<b>string12</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 12

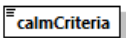
element **windRoseStation/endDayMonth**

diagram	
type	<b>string11</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 11

element **windRoseStation/directionUnit**


diagram	
type	<b>string9</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 9

element **windRoseStation/calmCriteria**

diagram	
type	<b>string11</b>
properties	content simple
facets	Kind Value Annotation minLength 0

maxLength 11

element **windRoseStation/calms**

diagram	
type	<b>xs:int</b>
properties	content simple


element **windRoseStation/missing**

diagram	
type	<b>xs:int</b>
properties	content simple

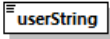
element **windRoseStation/good**

diagram	
type	<b>xs:int</b>
properties	content simple

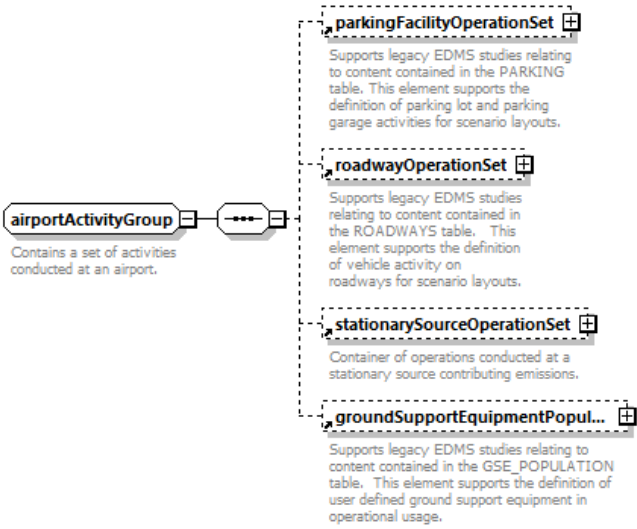
element **windRoseStation/total**

diagram	
type	<b>xs:int</b>
properties	content simple

element **windRoseStation/userString**

diagram	
type	<b>string11</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 11

group **airportActivityGroup**

diagram	 <p>airportActivityGroup Contains a set of activities conducted at an airport.</p> <p><b>parkingFacilityOperationSet</b> Supports legacy EDMS studies relating to content contained in the PARKING table. This element supports the definition of parking lot and parking garage activities for scenario layouts.</p> <p><b>roadwayOperationSet</b> Supports legacy EDMS studies relating to content contained in the ROADWAYS table. This element supports the definition of vehicle activity on roadways for scenario layouts.</p> <p><b>stationarySourceOperationSet</b> Container of operations conducted at a stationary source contributing emissions.</p> <p><b>groundSupportEquipmentPopul...</b> Supports legacy EDMS studies relating to content contained in the GSE_POPULATION table. This element supports the definition of user defined ground support equipment in operational usage.</p>
children	<a href="#">parkingFacilityOperationSet</a> <a href="#">roadwayOperationSet</a> <a href="#">stationarySourceOperationSet</a> <a href="#">groundSupportEquipmentPopulationOperationSet</a>
used by	element <a href="#">case</a>

annotation	documentation Contains a set of activities conducted at an airport.
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group **annualizationGroupCase**

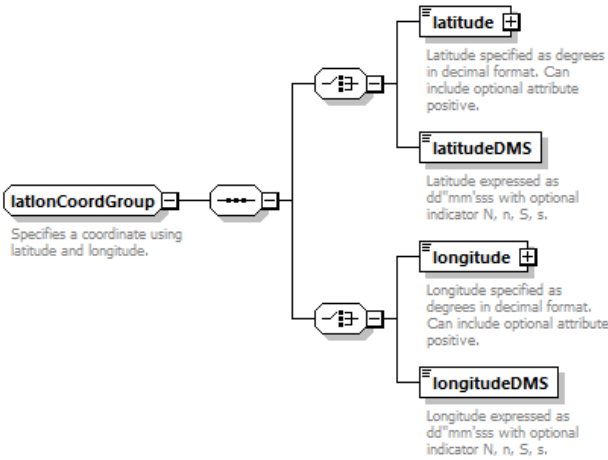
diagram	<p><b>annualizationGroupCase</b> Allows for grouping cases into groups, and groups into parent groups.</p> <p><b>annualizationGroup</b> 0..∞ Contains one or more weighted annualization group cases.</p> <p><b>annualizationCase</b> 0..∞ Collection of study cases whose results are weighted in the scenario annualization rollup.</p>
children	<a href="#">annualizationGroup</a> <a href="#">annualizationCase</a>
used by	element <a href="#">annualizationGroup</a>
annotation	documentation Allows for grouping cases into groups, and groups into parent groups.

group **coord2DGroup**

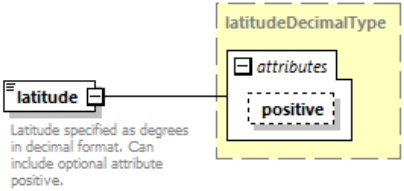
diagram	<p><b>coord2DGroup</b> Indicates how a two-dimensional group is specified.</p> <p><b>latlonCoordGroup</b> Specifies a coordinate using latitude and longitude.</p> <p><b>latitude</b> Latitude specified as degrees in decimal format. Can include optional attribute positive.</p> <p><b>latitudeDMS</b> Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.</p> <p><b>longitude</b> Longitude specified as degrees in decimal format. Can include optional attribute positive.</p> <p><b>longitudeDMS</b> Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.</p> <p><b>utmCoordGroup</b> Specifies a point using Universal Transverse Mercator coordinates.</p> <p><b>utmN</b> UTM Northing of the point in decimal meters north of the equator.</p> <p><b>utmE</b> UTM Easting of the point in decimal meters east from a central meridian.</p> <p><b>utmZone</b> UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</p>
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
used by	elements <a href="#">airportWeatherStation</a> <a href="#">centroid</a> <a href="#">grid</a> <a href="#">pointReceptor</a> <a href="#">polarGrid</a> <a href="#">polarReceptor</a> <a href="#">taxiNode</a> <a href="#">trackNode</a> <a href="#">windRoseStation</a> complexTypes <a href="#">airport</a> <a href="#">airportLayoutType</a> <a href="#">runup</a> <a href="#">runwayEnd</a>
annotation	documentation Indicates how a two-dimensional group is specified.

group **latlonCoordGroup**

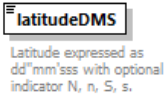
diagram	
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	 <p>The diagram shows the structure of the <b>latlonCoordGroup</b> element. It is a container element that specifies a coordinate using latitude and longitude. It contains two optional child elements, each with a cardinality of 1..1:</p> <ul style="list-style-type: none"> <li><b>latitude</b>: Latitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>latitudeDMS</b>: Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> <li><b>longitude</b>: Longitude specified as degrees in decimal format. Can include optional attribute positive.</li> <li><b>longitudeDMS</b>: Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.</li> </ul>
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a>
used by	complexType <a href="#">coord2DType</a> group <a href="#">coord2DGroup</a>
annotation	documentation Specifies a coordinate using latitude and longitude.

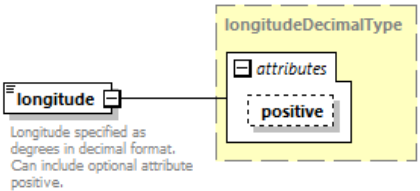
#### element **latlonCoordGroup/latitude**

diagram	 <p>The diagram shows the structure of the <b>latitude</b> element. It is a content complex element that specifies latitude in decimal format. It has an optional attribute <b>positive</b> derived by <code>xs:string</code>. The element is associated with the <b>latitudeDecimalType</b> type.</p>												
type	<a href="#">latitudeDecimalType</a>												
properties	content complex												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">positive</a></td> <td><b>derived by: xs:string</b></td> <td>optional</td> <td>N</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">positive</a>	<b>derived by: xs:string</b>	optional	N		
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">positive</a>	<b>derived by: xs:string</b>	optional	N										
annotation	documentation Latitude specified as degrees in decimal format. Can include optional attribute positive.												

#### element **latlonCoordGroup/latitudeDMS**

diagram	 <p>The diagram shows the structure of the <b>latitudeDMS</b> element. It is a content simple element that expresses latitude in degrees, minutes, seconds, and optional indicator. The element is associated with the <b>latitudeDMSType</b> type.</p>						
type	<a href="#">latitudeDMSType</a>						
properties	content simple						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>[0-9]{2}\ - \&amp;quot; [0-9]{2}\ - \&amp;apos; [0-9]{2}(\.[0-9]{3})?[NnSs]</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	[0-9]{2}\ - \&quot; [0-9]{2}\ - \&apos; [0-9]{2}(\.[0-9]{3})?[NnSs]	
Kind	Value	Annotation					
pattern	[0-9]{2}\ - \&quot; [0-9]{2}\ - \&apos; [0-9]{2}(\.[0-9]{3})?[NnSs]						
annotation	documentation Latitude expressed as dd°mm'sss with optional indicator N, n, S, s.						

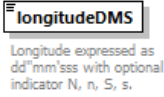
#### element **latlonCoordGroup/longitude**

diagram	 <p>The diagram shows the structure of the <b>longitude</b> element. It is a content complex element that specifies longitude in decimal format. It has an optional attribute <b>positive</b> derived by <code>xs:string</code>. The element is associated with the <b>longitudeDecimalType</b> type.</p>
type	<a href="#">longitudeDecimalType</a>
properties	content complex

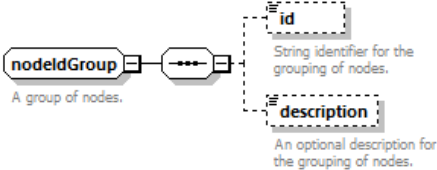


attributes	Name <a href="#">positive</a>	Type <b>derived by: xs:string</b>	Use optional	Default E	Fixed	Annotation
annotation	documentation Longitude specified as degrees in decimal format. Can include optional attribute positive.					

#### element **latlonCoordGroup/longitudeDMS**

diagram						
type	<a href="#">longitudeDMSType</a>					
properties	content simple					
facets	Kind	Value	Annotation			
	pattern	[0-9]?[0-9]{2}[\- &quot; ']?[0-9]{2}[\- &quot; ']?[0-9]{2}([0-9]{3})?[E e W w]				
annotation	documentation Longitude expressed as dd°mm'sss with optional indicator N, n, S, s.					

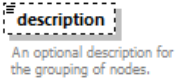
#### group **nodeldGroup**

diagram						
children	<a href="#">id</a> <a href="#">description</a>					
used by	elements <a href="#">trackNode</a> <a href="#">trackVector</a>					
annotation	documentation A group of nodes.					

#### element **nodeldGroup/id**

diagram						
type	<a href="#">string16</a>					
properties	minOcc 0 maxOcc 1 content simple					
facets	Kind	Value	Annotation			
	minLength	0				
	maxLength	16				
annotation	documentation String identifier for the grouping of nodes.					

#### element **nodeldGroup/description**

diagram						
type	<a href="#">string16</a>					
properties	minOcc 0 maxOcc 1 content simple					
facets	Kind	Value	Annotation			
	minLength	0				
	maxLength	16				
annotation	documentation An optional description for the grouping of nodes.					

group **oneOrThreeCoords2DGroupSet**

diagram	<p>The diagram shows a box labeled <b>oneOrThreeCoords2DGroupSet</b> with the description "Type of coordinate specifying the area." This box is connected to a choice symbol (a circle with a vertical line and a horizontal line) which branches into two options: <b>pointCoord</b> (Choice of a single point coordinate.) and <b>polygonCoords</b> (Choice of a 2D polygon.)</p>
children	<a href="#">pointCoord</a> <a href="#">polygonCoords</a>
used by	elements <a href="#">areaStationarySource</a> <a href="#">building</a> <a href="#">gate</a> <a href="#">parkingFacility</a>
annotation	documentation Type of coordinate specifying the area.

element **oneOrThreeCoords2DGroupSet/pointCoord**

diagram	<p>The diagram shows the internal structure of <b>pointCoord</b> (Choice of a single point coordinate.) within a dashed box labeled <b>coord2DType</b>. <b>pointCoord</b> is connected to a choice symbol that branches into two main options: <b>latlonCoordGroup</b> and <b>utmCoordGroup</b>.  <b>latlonCoordGroup</b> (Specifies a coordinate using latitude and longitude.) is connected to a choice symbol that branches into two options: <b>latitude</b> (Latitude specified as degrees in decimal format. Can include optional attribute positive.) and <b>latitudeDMS</b> (Latitude expressed as dd°mm' sss" with optional indicator N, n, S, s.).  <b>longititude</b> (Longitude specified as degrees in decimal format. Can include optional attribute positive.) and <b>longititudeDMS</b> (Longitude expressed as dd°mm' sss" with optional indicator N, n, S, s.) are also shown as options.  <b>utmCoordGroup</b> (Specifies a point using Universal Transverse Mercator coordinates.) is connected to a choice symbol that branches into <b>utmN</b> (UTM Northing of the point in decimal meters north of the equator.), <b>utmE</b> (UTM Easting of the point in decimal meters east from a central meridian.), and <b>utmZone</b> (UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.).</p>
type	<a href="#">coord2DType</a>
properties	content complex
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longititude</a> <a href="#">longititudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
annotation	documentation Choice of a single point coordinate.

element **oneOrThreeCoords2DGroupSet/polygonCoords**

diagram	<p>The diagram shows the internal structure of <b>polygonCoords</b> (Choice of a 2D polygon.) within a dashed box labeled <b>polygon2DType</b>. <b>polygonCoords</b> is connected to a choice symbol that branches into two options: <b>dummy</b> and <b>vertex</b>.  <b>vertex</b> is connected to a choice symbol with the cardinality "3..∞" and the description "A list of vertices defining the polygon."</p>
type	<a href="#">polygon2DType</a>
properties	content complex

children	<a href="#">dummy vertex</a>
annotation	documentation Choice of a 2D polygon.

### group **receptorGroup**

diagram	<p>The diagram shows a <b>receptorGroup</b> element (represented by a rounded rectangle) containing a complexType element (represented by a circle with a plus sign). This complexType element is composed of five child elements, each in a box with a plus sign:</p> <ul style="list-style-type: none"> <li><b>centroid</b>: 1..∞. Describes the geometric center of a polygon.</li> <li><b>pointReceptor</b>: 1..∞. Element specification for a point receptor.</li> <li><b>grid</b>: Describes a grid of points.</li> <li><b>polarReceptor</b>: 1..∞. Supports legacy EDMS studies relating to the NETWORK_POLAR_RECEPTORS and DISCRETE_POLAR_RECEPTORS table. Defines receptor points within a polar grid.</li> <li><b>polarGrid</b>: Supports legacy EDMS studies relating to the NETWORK_POLAR_RECEPTORS table. Two-Dimensional grid of individual receptors over an annular sector (polar) of the airport or study area.</li> </ul>
children	<a href="#">centroid</a> <a href="#">pointReceptor</a> <a href="#">grid</a> <a href="#">polarReceptor</a> <a href="#">polarGrid</a>
used by	element <a href="#">receptorSet</a>
annotation	documentation Description of a receptor group.

### group **utmCoordGroup**


diagram	<p>The diagram shows a <b>utmCoordGroup</b> element (represented by a rounded rectangle) containing a complexType element (represented by a circle with a plus sign). This complexType element is composed of three child elements:</p> <ul style="list-style-type: none"> <li><b>utmN</b>: UTM Northing of the point in decimal meters north of the equator.</li> <li><b>utmE</b>: UTM Easting of the point in decimal meters east from a central meridian.</li> <li><b>utmZone</b>: UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</li> </ul>
children	<a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
used by	complexType <a href="#">coord2DType</a> group <a href="#">coord2DGroup</a>
annotation	documentation Specifies a point using Universal Transverse Mercator coordinates.

### element **utmCoordGroup/utmN**

diagram	<p>The diagram shows the <b>utmN</b> element (represented by a box with a plus sign) and its description: UTM Northing of the point in decimal meters north of the equator.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation

UTM Northing of the point in decimal meters north of the equator.

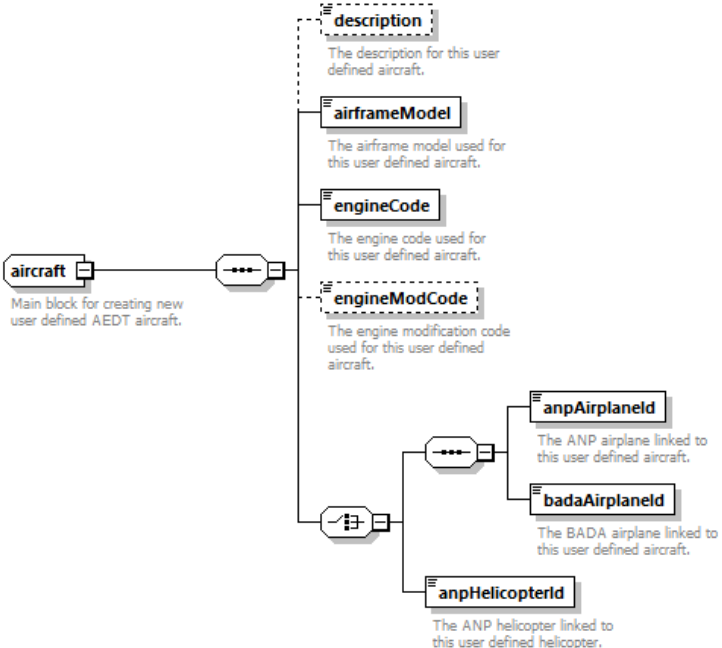
#### element **utmCoordGroup/utmE**

diagram	 <p>UTM Easting of the point in decimal meters east from a central meridian.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation UTM Easting of the point in decimal meters east from a central meridian.

#### element **utmCoordGroup/utmZone**

diagram	 <p>UTM Zone of the point. A default zone can be set in the <code>&lt;options&gt;</code> tag.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple default -1
annotation	documentation UTM Zone of the point. A default zone can be set in the <code>&lt;options&gt;</code> tag.

#### complexType **aircraft**

diagram	 <p>The diagram shows the structure of the <b>aircraft</b> complex type. It is the main block for creating new user defined AEDT aircraft. It contains several elements: <b>description</b> (description for this user defined aircraft), <b>airframeModel</b> (airframe model used for this user defined aircraft), <b>engineCode</b> (engine code used for this user defined aircraft), <b>engineModCode</b> (engine modification code used for this user defined aircraft), <b>anpAirplaneId</b> (ANP airplane linked to this user defined aircraft), <b>badaAirplaneId</b> (BADA airplane linked to this user defined aircraft), and <b>anpHelicopterId</b> (ANP helicopter linked to this user defined helicopter).</p>
children	<b>description</b> <b>airframeModel</b> <b>engineCode</b> <b>engineModCode</b> <b>anpAirplaneId</b> <b>badaAirplaneId</b> <b>anpHelicopterId</b>
used by	element <b>fleet/aircraft</b>
annotation	documentation Main block for creating new user defined AEDT aircraft.

#### element **aircraft/description**

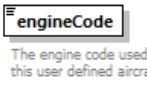
diagram	 <p>The description for this user defined aircraft.</p>
type	<b>string255</b>
properties	minOcc 0

	maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The description for this user defined aircraft.

element **aircraft/airframeModel**

diagram	
type	<a href="#">airframeModel</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The airframe model used for this user defined aircraft.

element **aircraft/engineCode**

diagram	
type	<a href="#">engineCode</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The engine code used for this user defined aircraft.

element **aircraft/engineModCode**

diagram	
type	<a href="#">engineModCode</a>
properties	minOcc 0 maxOcc 1 content simple default NONE
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation The engine modification code used for this user defined aircraft.

element **aircraft/anpAirplaneId**

diagram	
type	<a href="#">anpAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255

annotation	documentation The ANP airplane linked to this user defined aircraft.
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element **aircraft/badaAirplaneId**

diagram	
type	<b><u>badaAirplaneId</u></b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The BADA airplane linked to this user defined aircraft.

element **aircraft/anpHelicopterId**

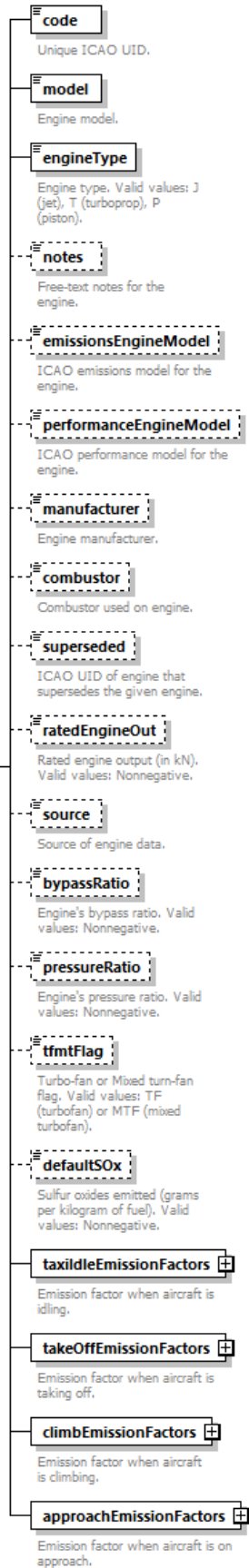
diagram	
type	<b><u>anpHeloid</u></b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The ANP helicopter linked to this user defined helicopter.

complexType **aircraftEngine**

diagram	
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**aircraftEngine**

User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can that be used within a user defined aircraft.




children	<a href="#">code</a> <a href="#">model</a> <a href="#">engineType</a> <a href="#">notes</a> <a href="#">emissionsEngineModel</a> <a href="#">performanceEngineModel</a> <a href="#">manufacturer</a> <a href="#">combustor</a> <a href="#">superseded</a> <a href="#">ratedEngineOut</a> <a href="#">source</a> <a href="#">bypassRatio</a> <a href="#">pressureRatio</a> <a href="#">tftmFlag</a> <a href="#">defaultSOx</a> <a href="#">taxiIdleEmissionFactors</a> <a href="#">takeOffEmissionFactors</a> <a href="#">climbEmissionFactors</a> <a href="#">approachEmissionFactors</a>
used by	element <a href="#">fleet/engine</a>
annotation	documentation User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can that be used within a user defined aircraft.

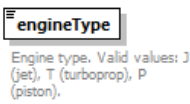
element **aircraftEngine/code**

diagram	
type	<b>engineCode</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Unique ICAO UID.

element **aircraftEngine/model**

diagram	
type	<b>engineModel</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Engine model.

element **aircraftEngine/engineType**

diagram	
type	<b>engineType</b>
properties	content simple
facets	Kind Value Annotation pattern Jet J Turbo Turbo-prop T Prop Piston P
annotation	documentation Engine type. Valid values: J (jet), T (turbo-prop), P (piston).

element **aircraftEngine/notes**

diagram	
type	<b>string200</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 200
annotation	documentation Free-text notes for the engine.

element **aircraftEngine/emissionsEngineModel**

diagram	
type	<b>string25</b>
properties	minOcc 0

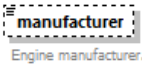


	maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 25
annotation	documentation ICAO emissions model for the engine.


element **aircraftEngine/performanceEngineModel**

diagram	
type	<b>string25</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 25
annotation	documentation ICAO performance model for the engine.

element **aircraftEngine/manufacturer**

diagram	
type	<b>string100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Engine manufacturer.

element **aircraftEngine/combustor**

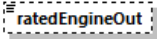
diagram	
type	<b>string50</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation Combustor used on engine.

element **aircraftEngine/superseded**


diagram	
type	<b>string10</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation

	minLength 0 maxLength 10
annotation	documentation ICAO UID of engine that supersedes the given engine.

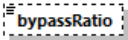
element **aircraftEngine/ratedEngineOut**

diagram	 <p>Rated engine output (in kN). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Rated engine output (in kN). Valid values: Nonnegative.

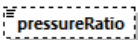
element **aircraftEngine/source**

diagram	 <p>Source of engine data.</p>
type	<b>string100</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Source of engine data.

element **aircraftEngine/bypassRatio**

diagram	 <p>Engine's bypass ratio. Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Engine's bypass ratio. Valid values: Nonnegative.

element **aircraftEngine/pressureRatio**

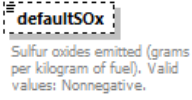
diagram	 <p>Engine's pressure ratio. Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Engine's pressure ratio. Valid values: Nonnegative.

element **aircraftEngine/tfmtFlag**

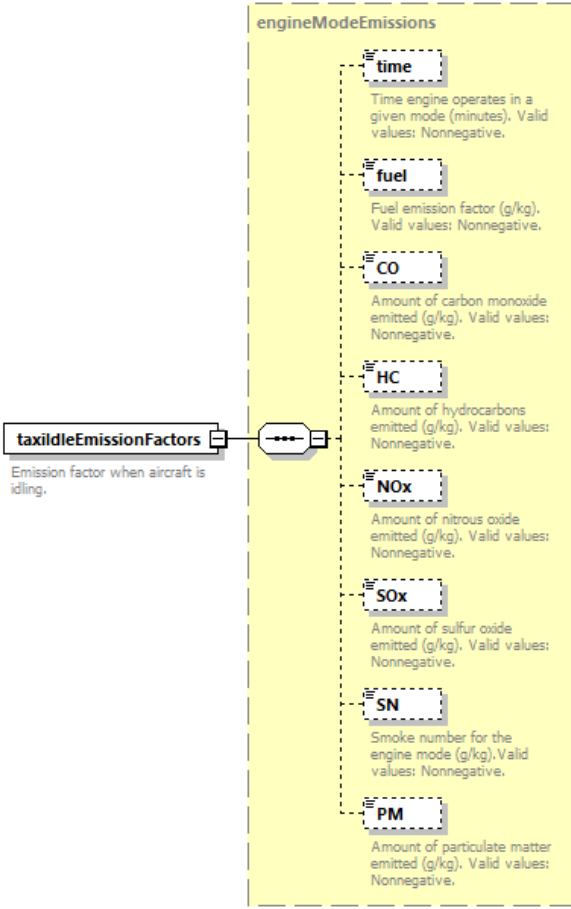
diagram	 <p>Turbo-fan or Mixed turbo-fan flag. Valid values: TF (turbofan) or MTF (mixed turbofan).</p>

type	<a href="#">string50</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation Turbo-fan or Mixed turn-fan flag. Valid values: TF (turbofan) or MTF (mixed turbofan).

element **aircraftEngine/defaultSOx**

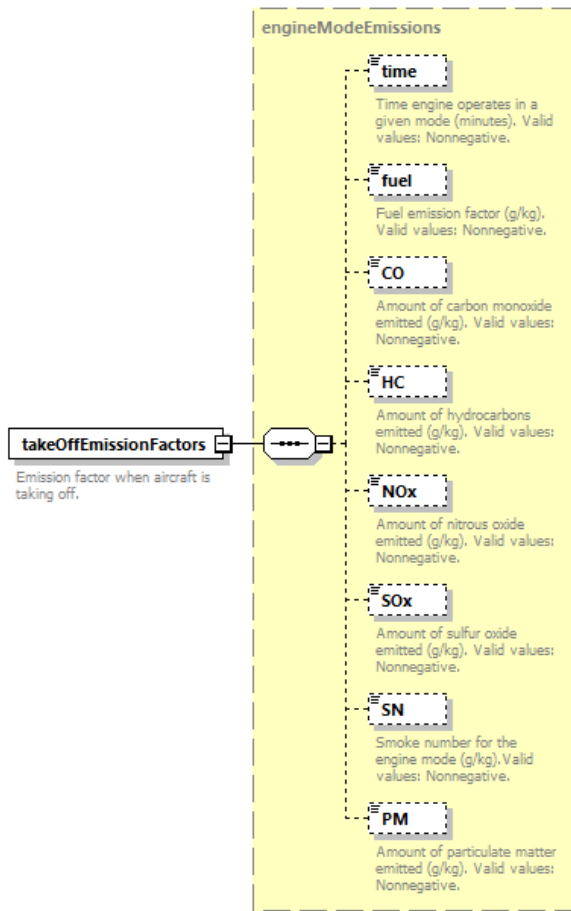
diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Sulfur oxides emitted (grams per kilogram of fuel). Valid values: Nonnegative.

element **aircraftEngine/taxidleEmissionFactors**

diagram	
type	<a href="#">engineModeEmissions</a>
properties	content complex
children	<a href="#">time</a> <a href="#">fuel</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">SN</a> <a href="#">PM</a>
annotation	documentation Emission factor when aircraft is idling.

element **aircraftEngine/takeOffEmissionFactors**

diagram

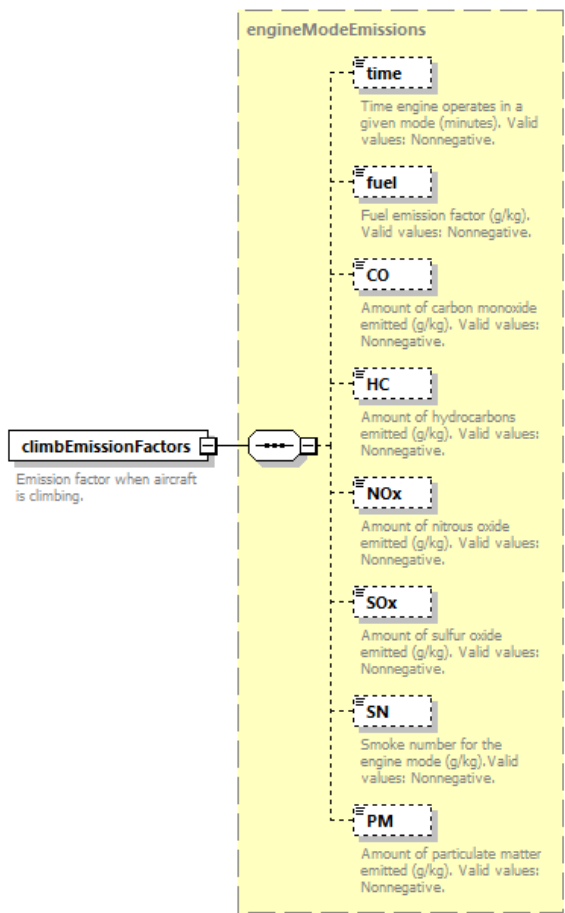


type	<a href="#">engineModeEmissions</a>
properties	content complex
children	<a href="#">time</a> <a href="#">fuel</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">SN</a> <a href="#">PM</a>
annotation	documentation Emission factor when aircraft is taking off.

element **aircraftEngine/climbEmissionFactors**

diagram





type	<a href="#">engineModeEmissions</a>
properties	content complex
children	<a href="#">time</a> <a href="#">fuel</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">SN</a> <a href="#">PM</a>
annotation	documentation Emission factor when aircraft is climbing.

element **aircraftEngine/approachEmissionFactors**

diagram	
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	<p><b>engineModeEmissions</b></p> <ul style="list-style-type: none"> <li><b>time</b>: Time engine operates in a given mode (minutes). Valid values: Nonnegative.</li> <li><b>fuel</b>: Fuel emission factor (g/kg). Valid values: Nonnegative.</li> <li><b>CO</b>: Amount of carbon monoxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>HC</b>: Amount of hydrocarbons emitted (g/kg). Valid values: Nonnegative.</li> <li><b>NOx</b>: Amount of nitrous oxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>SOx</b>: Amount of sulfur oxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>SN</b>: Smoke number for the engine mode (g/kg). Valid values: Nonnegative.</li> <li><b>PM</b>: Amount of particulate matter emitted (g/kg). Valid values: Nonnegative.</li> </ul> <p><b>approachEmissionFactors</b> Emission factor when aircraft is on approach.</p>
type	<a href="#">engineModeEmissions</a>
properties	content complex
children	<a href="#">time</a> <a href="#">fuel</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">SN</a> <a href="#">PM</a>
annotation	documentation Emission factor when aircraft is on approach.

#### complexType [aircraftEngineMod](#)


diagram	<p><b>aircraftEngineMod</b> User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.</p> <ul style="list-style-type: none"> <li><b>code</b>: Unique ICAO UID.</li> <li><b>description</b>: Description of engine modifications.</li> </ul>
children	<a href="#">code</a> <a href="#">description</a>
used by	element <a href="#">fleet/engineMod</a>
annotation	documentation User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.

#### element [aircraftEngineMod/code](#)

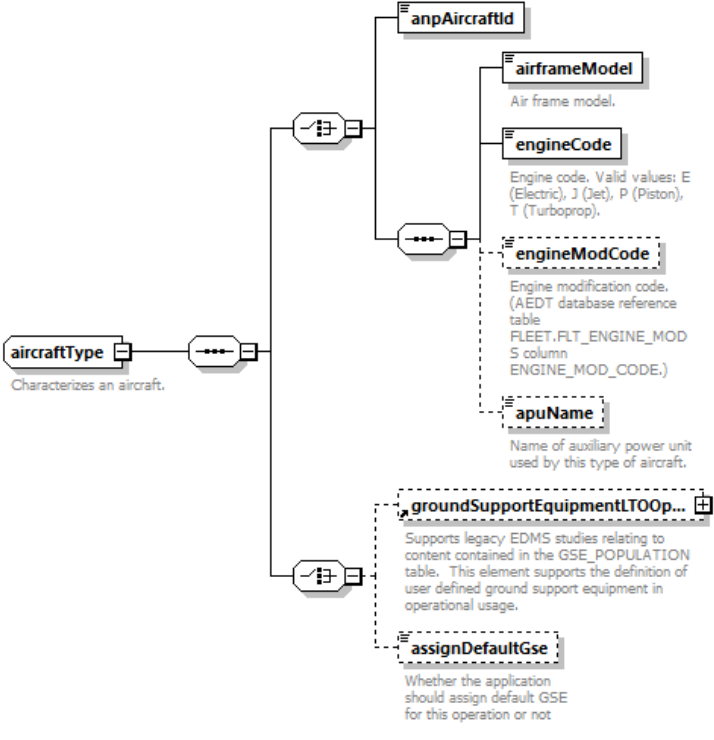
diagram	<p><b>code</b> Unique ICAO UID.</p>
type	<a href="#">engineModCode</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 50

annotation	documentation Unique ICAO UID.
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element **aircraftEngineMod/description**

diagram	
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of engine modifications.

complexType **aircraftType**

diagram	
children	<b>anpAircraftId</b> <b>airframeModel</b> <b>engineCode</b> <b>engineModCode</b> <b>apuName</b> <b>groundSupportEquipmentLTOOperationSet</b> <b>assignDefaultGse</b>
used by	elements <a href="#">operation/aircraftType</a> <a href="#">runup/aircraftType</a>
annotation	documentation Characterizes an aircraft.

element **aircraftType/anpAircraftId**


diagram	
type	<b>anpAirplaneId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255

element **aircraftType/airframeModel**

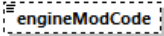
diagram	
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type	<a href="#">string50</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation Air frame model.

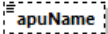
element **aircraftType/engineCode**

diagram	 <b>engineCode</b> Engine code. Valid values: E (Electric), J (Jet), P (Piston), T (Turboprop).
type	<a href="#">string25</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 25
annotation	documentation Engine code. Valid values: E (Electric), J (Jet), P (Piston), T (Turboprop).

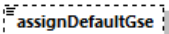
element **aircraftType/engineModCode**

diagram	 <b>engineModCode</b> Engine modification code. (AEDT database reference table FLEET.FLT_ENGINE_MODS column ENGINE_MOD_CODE.)
type	<a href="#">engineModCode</a>
properties	minOcc 0 maxOcc 1 content simple default NONE
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation Engine modification code. (AEDT database reference table FLEET.FLT_ENGINE_MODS column ENGINE_MOD_CODE.)

element **aircraftType/apuName**

diagram	 <b>apuName</b> Name of auxiliary power unit used by this type of aircraft.
type	<a href="#">xs:string</a>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Name of auxiliary power unit used by this type of aircraft.

element **aircraftType/assignDefaultGse**

diagram	 <b>assignDefaultGse</b> Whether the application should assign default GSE for this operation or not
type	<a href="#">xs:boolean</a>
properties	minOcc 0 maxOcc 1 content simple



	default false
annotation	documentation Whether the application should assign default GSE for this operation or not

complexType **airframe**

diagram	
children	<b>model engineCount engineLocation designationCode maxRange introYear euroGroupCode usageCode sizeCode engineType auxiliaryPowerUnitId</b>
used by	element <a href="#">fleet/airframe</a>
annotation	documentation This element supports the definition of custom airframes.

element **airframe/model**

diagram	
type	<b>airframeModel</b>
properties	content simple

facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Unique description of airframe.

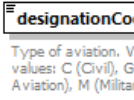
#### element **airframe/engineCount**

diagram	
type	<b>xs:int</b>
properties	content simple
annotation	documentation Number of engines on airframe.

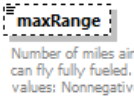
#### element **airframe/engineLocation**

diagram	
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Position of engine on airframe. Valid values: F (Fuselage/Tail), W (Wing).

#### element **airframe/designationCode**

diagram	
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of aviation. Valid values: C (Civil), G (General Aviation), M (Military).

#### element **airframe/maxRange**


diagram	
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of miles airframe can fly fully fueled. Valid values: Nonnegative.

#### element **airframe/introYear**


diagram	
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type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Year airframe was introduced. Valid values: Nonnegative.

#### element **airframe/euroGroupCode**

diagram	 <p>European group code for this airframe. Valid values: H1 (Helicopter Light), H2 (Helicopter Heavy), JB (Jet Business), JL (Jet Large), JM (Jet Medium), JR (Jet Regional), JS (Jet Small), PP (Propeller), SS (Supersonic), TP (Turboprop).</p>
type	<b>string2</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 2
annotation	documentation European group code for this airframe. Valid values: H1 (Helicopter Light), H2 (Helicopter Heavy), JB (Jet Business), JL (Jet Large), JM (Jet Medium), JR (Jet Regional), JS (Jet Small), PP (Propeller), SS (Supersonic), TP (Turboprop).

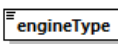
#### element **airframe/usageCode**

diagram	 <p>Usage code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Usage code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).

#### element **airframe/sizeCode**

diagram	 <p>Size code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Size code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).

#### element **airframe/engineType**

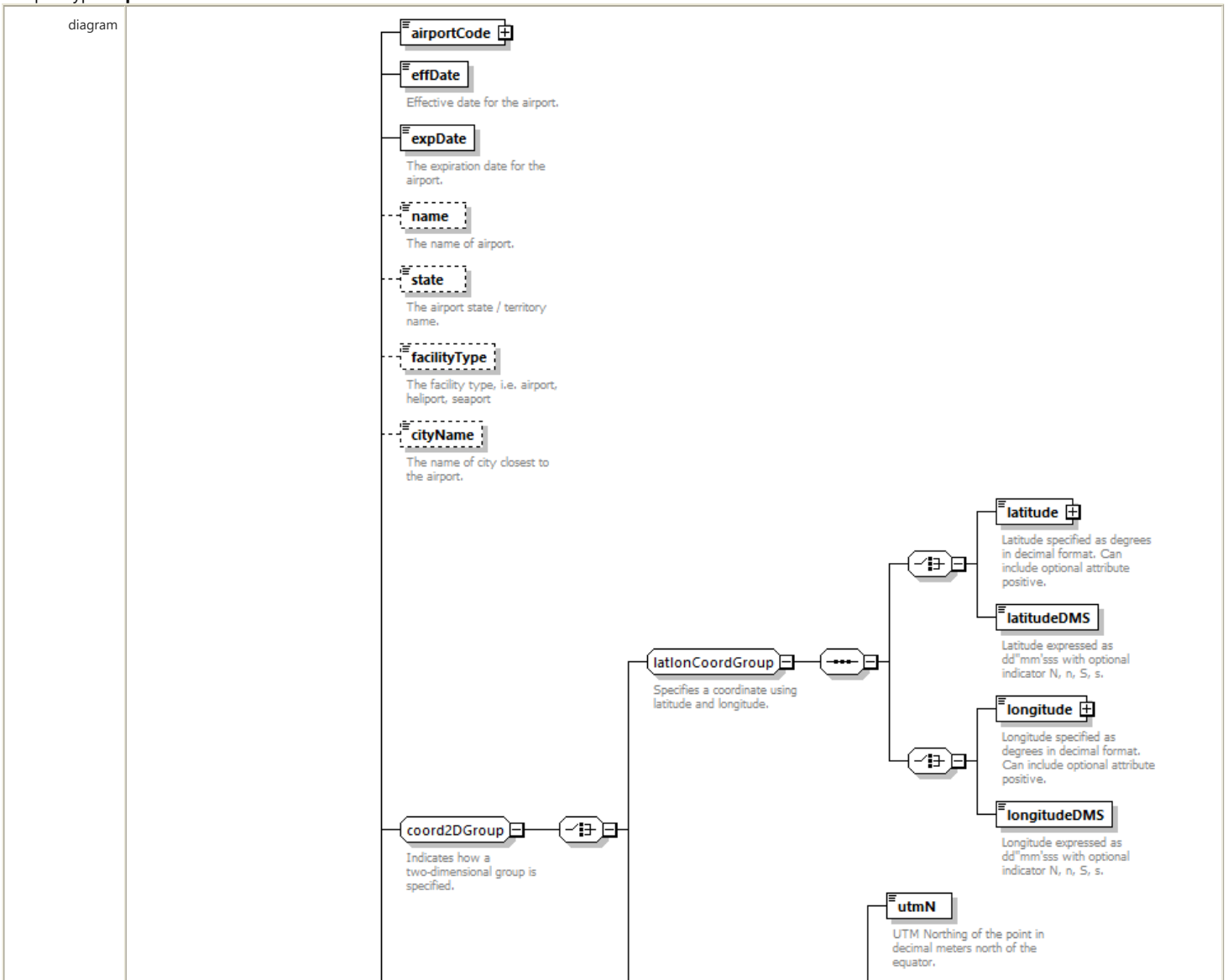
diagram	 <p>Type of engine on this airframe. Valid values: E (Electric), J (Jet), P (Piston), T (Turboprop).</p>
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type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of engine on this airframe. Valid values: E (Electric), J (Jet), P (Piston), T (Turboprop).

element **airframe/auxiliaryPowerUnitId**

diagram	
type	<b>apuName</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 30
annotation	documentation Identifier of an auxiliary power unit.

complexType **airport**



	<p><b>airport</b> Contains core airport information such as airport name, latitude/longitude, elevation, etc.</p> <p><b>elevation</b> Airport elevation above mean sea level. UNITS: Feet above MSL</p> <p><b>patternAltitude</b> Pattern altitude (where provided) above ground level. UNITS: Feet AGL</p> <p><b>tower</b> Flag to indicate if the airport has a tower.</p> <p><b>layout</b> Flag to indicate detailed layout information exists.</p> <p><b>archiveFlag</b> Flag set to 1 if track, sub-track, segment, and group percentage data can be distributed.</p> <p><b>dafifld</b> DAFIF Airport ID.</p> <p><b>faald</b> FAA Airport ID.</p> <p><b>shell1</b> Indicates if this airport is a shell 1 airport.</p> <p><b>smad</b> Indicates if airport is a JPDO Systems Modeling and Analysis Division analysis airport.</p> <p><b>zone</b> Zone info data for airport.</p> <p><b>airportWeather</b></p> <p><b>windRose</b></p> <p><b>taxiTime</b></p> <p><b>utmCoordGroup</b> Specifies a point using Universal Transverse Mercator coordinates.</p> <p><b>utmE</b> UTM Easting of the point in decimal meters east from a central meridian.</p> <p><b>utmZone</b> UTM Zone of the point. A default zone can be set in the &amp;#60;options&amp;#62; tag.</p>
children	<a href="#">airportCode</a> <a href="#">effDate</a> <a href="#">expDate</a> <a href="#">name</a> <a href="#">state</a> <a href="#">facilityType</a> <a href="#">cityName</a> <a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">elevation</a> <a href="#">patternAltitude</a> <a href="#">tower</a> <a href="#">layout</a> <a href="#">archiveFlag</a> <a href="#">dafifld</a> <a href="#">faald</a> <a href="#">shell1</a> <a href="#">smad</a> <a href="#">zone</a> <a href="#">airportWeather</a> <a href="#">windRose</a> <a href="#">taxiTime</a>
used by	element <a href="#">userDefinedAirportSet/userDefinedAirport</a>
annotation	documentation Contains core airport information such as airport name, latitude/longitude, elevation, etc.

element **airport/airportCode**


diagram	
type	<a href="#">airportCode</a>
properties	content complex

facets	Kind	Value	Annotation			
	minLength	0				
	maxLength	4				
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY		
	<a href="#">country</a>	<a href="#">string3</a>	optional	ANY		


#### element **airport/effDate**

diagram	
type	<b>xs:date</b>
properties	content simple
annotation	documentation Effective date for the airport.


#### element **airport/expDate**

diagram	
type	<b>xs:date</b>
properties	content simple
annotation	documentation The expiration date for the airport.


#### element **airport/name**

diagram			
type	<b>string100</b>		
properties	minOcc 0 maxOcc 1 content simple		
facets	Kind	Value	Annotation
	minLength	0	
	maxLength	100	
annotation	documentation The name of airport.		

#### element **airport/state**

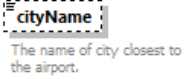
diagram			
type	<b>string50</b>		
properties	minOcc 0 maxOcc 1 content simple		
facets	Kind	Value	Annotation
	minLength	0	
	maxLength	50	
annotation	documentation The airport state / territory name.		

#### element **airport/facilityType**

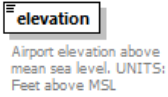
diagram	
type	<b>string25</b>

properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 25
annotation	documentation The facility type, i.e. airport, heliport, seaport

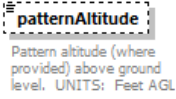
#### element **airport/cityName**

diagram	
type	<b>string50</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation The name of city closest to the airport.


#### element **airport/elevation**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Airport elevation above mean sea level. UNITS: Feet above MSL

#### element **airport/patternAltitude**

diagram	
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Pattern altitude (where provided) above ground level. UNITS: Feet AGL

#### element **airport/tower**


diagram	
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Flag to indicate if the airport has a tower.

#### element **airport/layout**


diagram	
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diagram	 <p>Flag to indicate detailed layout information exists.</p>
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Flag to indicate detailed layout information exists.


#### element **airport/archiveFlag**

diagram	 <p>Flag set to 1 if track, sub-track, segment, and group percentage data can be distributed.</p>
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Flag set to 1 if track, sub-track, segment, and group percentage data can be distributed.


#### element **airport/dafifld**

diagram	 <p>DAFIF Airport ID.</p>
type	<b>string7</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 7
annotation	documentation DAFIF Airport ID.

#### element **airport/faald**

diagram	 <p>FAA Airport ID.</p>
type	<b>string15</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 15
annotation	documentation FAA Airport ID.


#### element **airport/shell1**

diagram	 <p>Indicates if this airport is a shell 1 airport.</p>
type	<b>xs:boolean</b>
properties	minOcc 0



	maxOcc 1 content simple default false
annotation	documentation Indicates if this airport is a shell 1 airport.

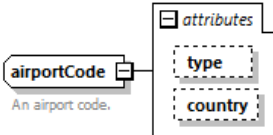
#### element **airport/smad**

diagram	 <p>Indicates if airport is a JPDO Systems Modeling and Analysis Division analysis airport.</p>
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation Indicates if airport is a JPDO Systems Modeling and Analysis Division analysis airport.

#### element **airport/zone**

diagram	 <p>Zone info data for airport.</p>
type	<b>string100</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation Zone info data for airport.

#### complexType **airportCode**

diagram	 <p>An airport code.</p>																		
type	extension of <b>string4</b>																		
properties	base string4																		
used by	elements <a href="#">track/airport</a> <a href="#">runup/airport</a> <a href="#">airport/airportCode</a> <a href="#">airportLayoutType/airportCode</a> <a href="#">operation/arrivalAirport</a> <a href="#">operation/departureAirport</a>																		
facets	Kind Value Annotation minLength 0 maxLength 4																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><a href="#">airportCodeType</a></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> <tr> <td><a href="#">country</a></td> <td><a href="#">string3</a></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY			<a href="#">country</a>	<a href="#">string3</a>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY																
<a href="#">country</a>	<a href="#">string3</a>	optional	ANY																
annotation	documentation An airport code.																		

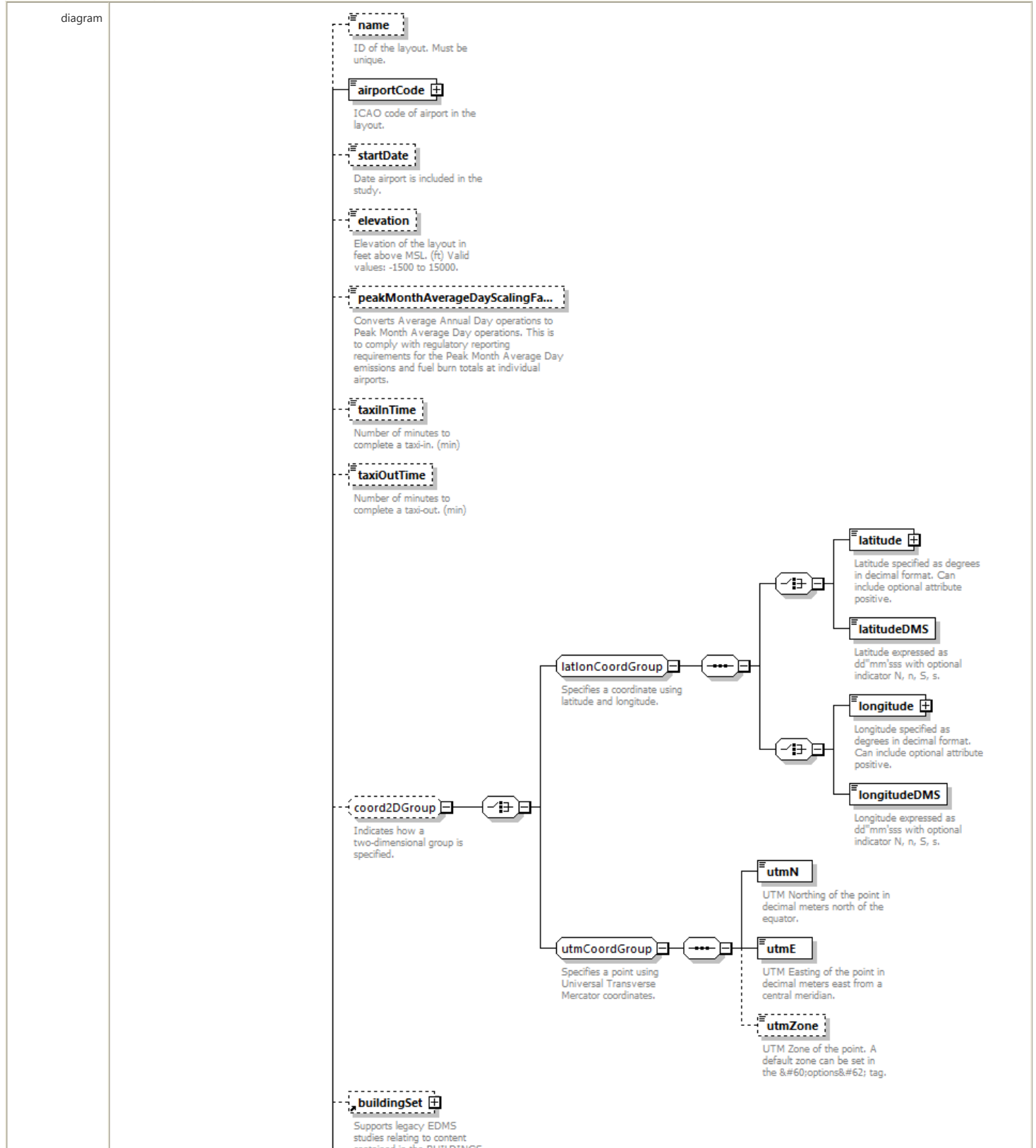
#### attribute **airportCode/@type**

type	<b>airportCodeType</b>
properties	use optional default ANY
facets	Kind Value Annotation enumeration ICAO enumeration IATA enumeration FAA enumeration OTHER enumeration ANY

attribute **airportCode/@country**

type	<b>string3</b>
properties	use optional default ANY
facets	Kind Value Annotation minLength 0 maxLength 3

complexType **airportLayoutType**



**airportLayoutType**  
Fields defining an airport and its layout.

contained in the `ROADWAYS` table. This element supports the definition of airport buildings. These building sources affect the emitted point source plumes by essentially serving as obstacles to those sources, and therefore have a significant impact on concentrations resulting from stationary source emissions. Buildings have no effect on the concentrations estimated from volume and area sources such as aircraft, APU, GSE, roadways, and parking facilities.

**parkingFacilitySet**

Supports legacy EDMS studies relating to content contained in the `PARKING` table. This element supports the definition of parking lot and parking garage activities for scenario layouts.

**stationarySourceSet**

Container of stationary sources contributing emissions.

**gateSet**

Supports legacy EDMS studies relating to content contained in the `GATES` table. This element supports the definition of gates within an airport layout. In dispersion analyses, GSE, AGE, and APU emissions originate from the gate locations. Gates are needed for sequence modeling, which includes all dispersion analyses.

**roadwaySet**

Supports legacy EDMS studies relating to content contained in the `ROADWAYS` table. This element supports the definition of vehicle activity on roadways for scenario layouts.

**taxiwaySet**

Supports legacy EDMS studies relating to the `TAXIWAYS` table. Taxiways determine the ground segments where the aircraft operates.

**runwaySet**

Container for runways.

**taxipathSet**

Supports legacy EDMS studies relating to the `TAXIPATHS` table. A taxipath is a sequence of taxiways, possibly just one, that connects a gate to a runway or vice versa. Taxipaths are used to do the modeling of aircraft ground movement. They are needed for sequence modeling, which includes all dispersion analyses. Gates, taxiways and runways must be defined before taxipaths can be specified.

**trackSet**

A set of flight tracks.

**airportConfigSet**

Contains one or more `airportConfig` elements.

**airportCapacity**

Supports legacy EDMS studies relating to content contained in the

	<p>RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.</p> <p><b>quarterHourlyProfileSet</b> </p> <p>Supports the definition and use of QUARTER_HOURLY_PROFILES for the quarter hourly variation of operations.</p> <p><b>dailyProfileSet</b> </p> <p>Supports the definition and use of DAILY_PROFILES for the daily variation of operations.</p> <p><b>monthlyProfileSet</b> </p> <p>Supports the definition and use of MONTHLY_PROFILES for the monthly variation of operations.</p> <p><b>activityProfileSet</b> </p> <p>Supports the definition and use of QUARTER_HOURLY_PROFILES, DAILY_PROFILES, and MONTHLY_PROFILES variation of operations.</p>
children	<a href="#">name</a> <a href="#">airportCode</a> <a href="#">startDate</a> <a href="#">elevation</a> <a href="#">peakMonthAverageDayScalingFactor</a> <a href="#">taxiInTime</a> <a href="#">taxiOutTime</a> <a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">buildingSet</a> <a href="#">parkingFacilitySet</a> <a href="#">stationarySourceSet</a> <a href="#">gateSet</a> <a href="#">roadwaySet</a> <a href="#">taxiwaySet</a> <a href="#">runwaySet</a> <a href="#">taxipathSet</a> <a href="#">trackSet</a> <a href="#">airportConfigSet</a> <a href="#">airportCapacity</a> <a href="#">quarterHourlyProfileSet</a> <a href="#">dailyProfileSet</a> <a href="#">monthlyProfileSet</a> <a href="#">activityProfileSet</a>
used by	element <a href="#">airportLayoutSet/airportLayout</a>
annotation	documentation Fields defining an airport and its layout.

element **airportLayoutType/name**

diagram	<p>name ID of the layout. Must be unique.</p>
type	<a href="#">string255</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of the layout. Must be unique.

element **airportLayoutType/airportCode**

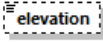
diagram	<p>airportCode ICAO code of airport in the layout.</p>												
type	<a href="#">airportCode</a>												
properties	content complex												
facets	Kind Value Annotation minLength 0 maxLength 4												
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><a href="#">airportCodeType</a></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation								
<a href="#">type</a>	<a href="#">airportCodeType</a>	optional	ANY										

	country	<b>string3</b>	optional	ANY
annotation	documentation	ICAO code of airport in the layout.		

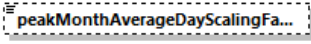
element **airportLayoutType/startDate**

diagram	 <p>Date airport is included in the study.</p>
type	<b>xs:date</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Date airport is included in the study.

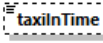
element **airportLayoutType/elevation**

diagram	 <p>Elevation of the layout in feet above MSL. (ft) Valid values: -1500 to 15000.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Elevation of the layout in feet above MSL. (ft) Valid values: -1500 to 15000.

element **airportLayoutType/peakMonthAverageDayScalingFactor**

diagram	 <p>Converts Average Annual Day operations to Peak Month Average Day operations. This is to comply with regulatory reporting requirements for the Peak Month Average Day emissions and fuel burn totals at individual airports.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 1.0
annotation	documentation Converts Average Annual Day operations to Peak Month Average Day operations. This is to comply with regulatory reporting requirements for the Peak Month Average Day emissions and fuel burn totals at individual airports.

element **airportLayoutType/taxiInTime**

diagram	 <p>Number of minutes to complete a taxi-in. (min)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of minutes to complete a taxi-in. (min)

element **airportLayoutType/taxiOutTime**

diagram	 <p>Number of minutes to complete a taxi-out. (min)</p>
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Number of minutes to complete a taxi-out. (min)

complexType **anpAirplane**

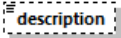
diagram	
children	<a href="#">anpAirplaneId</a> <a href="#">description</a> <a href="#">sizeCode</a> <a href="#">owner</a> <a href="#">engineTypeCode</a> <a href="#">numberEngines</a> <a href="#">maxGrossWeightTakeoff</a> <a href="#">maxGrossWeightLand</a> <a href="#">maxDsStop</a> <a href="#">depThrustCoeffType</a> <a href="#">thrustStatic</a> <a href="#">thrustRestore</a> <a href="#">noiseId</a> <a href="#">noiseCategory</a> <a href="#">minBurn</a>
used by	element <a href="#">fleet/anpAirplane</a>
annotation	documentation

Creates a new ANP airplane.


#### element **anpAirplane/anpAirplaneId**

diagram	 ID of ANP airplane. Must be a new, unique value.
type	<b>anpAirplaneId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of ANP airplane. Must be a new, unique value.

#### element **anpAirplane/description**

diagram	 Description of ANP airplane.
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of ANP airplane.

#### element **anpAirplane/sizeCode**

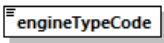
diagram	 Size code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).
type	<b>anpSizeCode</b>
properties	content simple
facets	Kind Value Annotation pattern Heavy H Large L Small S
annotation	documentation Size code for this airframe. Valid values: H (Heavy), L (Large), M (Medium), S (Small), T (Light), V (Very Light).

#### element **anpAirplane/owner**

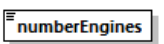
diagram	 The owner category: commercial, general aviation, military.
type	<b>anpOwnerType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Commercial C Military M General G
annotation	documentation The owner category: commercial, general aviation, military.

#### element **anpAirplane/engineTypeCode**

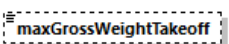
diagram	
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	 <p>The engine type code: prop, jet, turbo.</p>
type	<b>engineType</b>
properties	content simple
facets	Kind Value Annotation pattern Jet J Turbo Turboprop T Prop Piston P
annotation	documentation The engine type code: prop, jet, turbo.

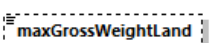
#### element **anpAirplane/numberEngines**

diagram	 <p>Number of engines on this airplane. Valid values: 1 through 8.</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Number of engines on this airplane. Valid values: 1 through 8.

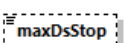
#### element **anpAirplane/maxGrossWeightTakeoff**

diagram	 <p>Maximum gross weight on takeoff (min = 0, max = 999999, lbs).</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum gross weight on takeoff (min = 0, max = 999999, lbs).

#### element **anpAirplane/maxGrossWeightLand**

diagram	 <p>Maximum gross weight on landing (min = 0, max = 999999, lbs).</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum gross weight on landing (min = 0, max = 999999, lbs).

#### element **anpAirplane/maxDsStop**

diagram	 <p>FAR landing field length at maximum landing weight (min = 0, max = 20000, feet).</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation FAR landing field length at maximum landing weight (min = 0, max = 20000, feet).

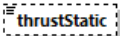
#### element **anpAirplane/depThrustCoeffType**

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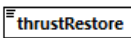


diagram	 <p>depThrustCoeffType Type of thrust coefficients: J=jet, P=prop.</p>
type	<a href="#">anpCoeffType</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Jet J Prop P
annotation	documentation Type of thrust coefficients: J=jet, P=prop.


#### element **anpAirplane/thrustStatic**

diagram	 <p>thrustStatic Static rated thrust or 100% thrust (lb, min =0, max = 200000).</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Static rated thrust or 100% thrust (lb, min =0, max = 200000).

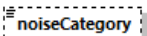
#### element **anpAirplane/thrustRestore**

diagram	 <p>thrustRestore Flag indicating aircraft has automated thrust restoration system.</p>
type	<a href="#">yesNoType</a>
properties	content simple default N
facets	Kind Value Annotation pattern Yes Y No N
annotation	documentation Flag indicating aircraft has automated thrust restoration system.

#### element **anpAirplane/noiseld**

diagram	 <p>noiseld ID of a Noise Group.</p>
type	<a href="#">anpNoiseld</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of a Noise Group.

#### element **anpAirplane/noiseCategory**

diagram	 <p>noiseCategory The noise category stage number.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1

	content simple
annotation	documentation The noise category stage number.

#### element **anpAirplane/minBurn**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Minimum fuel burn rate. (kg/sec)

#### complexType **anpFlaps**

diagram	
children	<b>flapId operationType coeff_R coeff_CD coeff_B</b>
used by	element <b>anpFlapsSet/flaps</b>
annotation	documentation Flaps data element.

#### element **anpFlaps/flapId**


diagram	
type	<b>anpFlapId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 6
annotation	documentation Flap-setting identifier.

#### element **anpFlaps/operationType**


diagram	
type	<b>string1</b>

properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&Go), F (CircuitFit), V (OverFit)

element **anpFlaps/coeff\_R**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The drag-over-lift ratio. Valid values: 0.0 to 1.34.


element **anpFlaps/coeff\_CD**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The takeoff and landing calibrated airspeed coefficient. Valid values: 0.0 to 1.34. (KNOTS/LB^1/2).

element **anpFlaps/coeff\_B**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The takeoff distance coefficient. Valid values: empty or 0.0 to 1.34. (FEET/LB).

complexType **anpFlapsSet**

diagram	
children	<b>anpAirplaneId flaps</b>
used by	element <b>fleet/anpFlapsSet</b>
annotation	documentation Flap settings set for an ANP aircraft type.

element **anpFlapsSet/anpAirplaneId**

diagram	
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type	<a href="#">anpAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airplane's ANP ID.

element **anpFlapsSet/flaps**

diagram	
type	<a href="#">anpFlaps</a>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">flapId</a> <a href="#">operationType</a> <a href="#">coeff_R</a> <a href="#">coeff_CD</a> <a href="#">coeff_B</a>

complexType **anpHelicopter**

diagram	
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anpHelicopter

1000.

**rpm**

The helicopter rotor speed (revolutions per minute). Valid values: 0 to 1000.

**maxTakeoffWeight**

The max gross takeoff weight (pounds). Valid values: 0 to 50000.

**hasWheels**

Flag indicating if the helicopter has wheels. Valid values: Y (yes), N (no).

**modelType**

The helicopter model type. Valid values: I (INM), N (NoiseMap).

**bLeft0**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bLeft1**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bLeft2**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bCenter0**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bCenter1**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bCenter2**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bRight0**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**bRight1**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**bRight2**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**dbVerticalAscent**

Decibel offset added to NPD levels, vertical ascent (dB). Valid values: Min = -50 Max = 50.

**dbVerticalDescent**


Decibel offset added to NPD levels, vertical descent (dB). Valid values: Min = -50 Max = 50.

**dbHorizontalAcceleration**


Decibel offset added to NPD

	<p>levels, depart horizontal acceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbClimbAcceleration</b></p> <p>Decibel offset added to NPD levels, depart with climbing acceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbHorizontalDeceleration</b></p> <p>Decibel offset added to NPD levels, approach with horizontal deceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbDescendDeceleration</b></p> <p>Decibel offset added to NPD levels, approach with descending deceleration (dB). Valid values: Min = -50 Max = 50.</p>
children	<a href="#">anpHelicopterId</a> <a href="#">noiseId</a> <a href="#">directivityId</a> <a href="#">description</a> <a href="#">owner</a> <a href="#">engineTypeCode</a> <a href="#">numberRotors</a> <a href="#">diameter</a> <a href="#">rpm</a> <a href="#">maxTakeoffWeight</a> <a href="#">hasWheels</a> <a href="#">modelType</a> <a href="#">bLeft0</a> <a href="#">bLeft1</a> <a href="#">bLeft2</a> <a href="#">bCenter0</a> <a href="#">bCenter1</a> <a href="#">bCenter2</a> <a href="#">bRight0</a> <a href="#">bRight1</a> <a href="#">bRight2</a> <a href="#">dbVerticalAscent</a> <a href="#">dbVerticalDescent</a> <a href="#">dbHorizontalAcceleration</a> <a href="#">dbClimbAcceleration</a> <a href="#">dbHorizontalDeceleration</a> <a href="#">dbDescendDeceleration</a>
used by	element <a href="#">fleet/anpHelicopter</a>

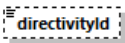
#### element [anpHelicopter/anpHelicopterId](#)

diagram	 <p>Unique ID number of ANP Helicopter.</p>
type	<a href="#">anpHeloid</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Unique ID number of ANP Helicopter.

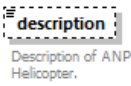
#### element [anpHelicopter/noiseId](#)

diagram	 <p>ID of a Noise Group.</p>
type	<a href="#">anpHeloNoiseId</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of a Noise Group.

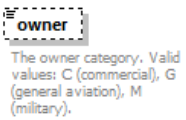
#### element [anpHelicopter/directivityId](#)

diagram	 <p>Noise directivity ID for ANP helicopter.</p>
type	<a href="#">anpHeloDirectivityId</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 12
annotation	documentation Noise directivity ID for ANP helicopter.

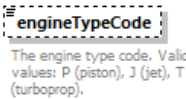
element **anpHelicopter/description**

diagram	
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Description of ANP Helicopter.

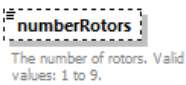
element **anpHelicopter/owner**

diagram	
type	<b>anpOwnerType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Commercial C Military M General G
annotation	documentation The owner category. Valid values: C (commercial), G (general aviation), M (military).

element **anpHelicopter/engineTypeCode**

diagram	
type	<b>engineType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Jet J Turbo Turboprop T Prop Piston P
annotation	documentation The engine type code. Valid values: P (piston), J (jet), T (turboprop).

element **anpHelicopter/numberRotors**


diagram	
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The number of rotors. Valid values: 1 to 9.

element **anpHelicopter/diameter**

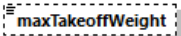
diagram	
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	 <p><b>diameter</b></p> <p>The helicopter diameter (feet). Valid values: 0 to 1000.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The helicopter diameter (feet). Valid values: 0 to 1000.

element **anpHelicopter/rpm**

diagram	 <p><b>rpm</b></p> <p>The helicopter rotor speed (revolutions per minute). Valid values: 0 to 1000.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The helicopter rotor speed (revolutions per minute). Valid values: 0 to 1000.

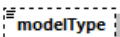
element **anpHelicopter/maxTakeoffWeight**

diagram	 <p><b>maxTakeoffWeight</b></p> <p>The max gross takeoff weight (pounds). Valid values: 0 to 50000.</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The max gross takeoff weight (pounds). Valid values: 0 to 50000.

element **anpHelicopter/hasWheels**

diagram	 <p><b>hasWheels</b></p> <p>Flag indicating if the helicopter has wheels. Valid values: Y (yes), N (no).</p>
type	<b>yesNoType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Yes Y No N
annotation	documentation Flag indicating if the helicopter has wheels. Valid values: Y (yes), N (no).


element **anpHelicopter/modelType**

diagram	 <p><b>modelType</b></p> <p>The helicopter model type. Valid values: I (INM), N (NoiseMap).</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple



facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation The helicopter model type. Valid values: I (INM), N (NoiseMap).

element **anpHelicopter/bLeft0**

diagram	 Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.


element **anpHelicopter/bLeft1**

diagram	 Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

element **anpHelicopter/bLeft2**


diagram	 Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

element **anpHelicopter/bCenter0**


diagram	 Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

element **anpHelicopter/bCenter1**


diagram	
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	 <p><b>bCenter1</b> Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.


element **anpHelicopter/bCenter2**

diagram	 <p><b>bCenter2</b> Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.


element **anpHelicopter/bRight0**

diagram	 <p><b>bRight0</b> Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

element **anpHelicopter/bRight1**

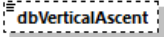
diagram	 <p><b>bRight1</b> Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

element **anpHelicopter/bRight2**

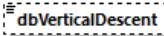
diagram	 <p><b>bRight2</b> Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

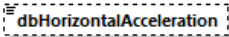
#### element **anpHelicopter/dbVerticalAscent**

diagram	 <p>Decibel offset added to NPD levels, vertical ascent (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, vertical ascent (dB). Valid values: Min = -50 Max = 50.


#### element **anpHelicopter/dbVerticalDescent**

diagram	 <p>Decibel offset added to NPD levels, vertical descent (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, vertical descent (dB). Valid values: Min = -50 Max = 50.

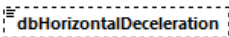
#### element **anpHelicopter/dbHorizontalAcceleration**

diagram	 <p>Decibel offset added to NPD levels, depart horizontal acceleration (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, depart horizontal acceleration (dB). Valid values: Min = -50 Max = 50.

#### element **anpHelicopter/dbClimbAcceleration**

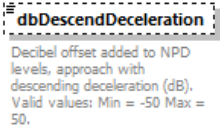
diagram	 <p>Decibel offset added to NPD levels, depart with climbing acceleration (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, depart with climbing acceleration (dB). Valid values: Min = -50 Max = 50.

#### element **anpHelicopter/dbHorizontalDeceleration**

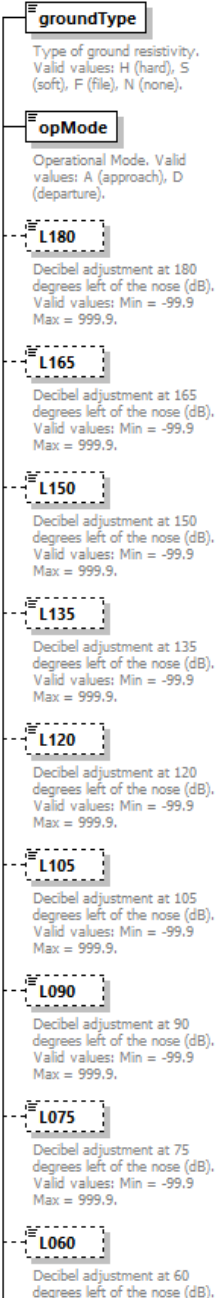
diagram	 <p>Decibel offset added to NPD levels, approach with horizontal deceleration (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, approach with horizontal deceleration (dB). Valid values: Min = -50 Max = 50.

element **anpHelicopter/dbDescendDeceleration**

diagram	 <p><b>dbDescendDeceleration</b> Decibel offset added to NPD levels, approach with descending deceleration (dB). Valid values: Min = -50 Max = 50.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel offset added to NPD levels, approach with descending deceleration (dB). Valid values: Min = -50 Max = 50.

complexType **anpHeloDirectivity**

diagram	 <p><b>groundType</b> Type of ground resistivity. Valid values: H (hard), S (soft), F (file), N (none).</p> <p><b>opMode</b> Operational Mode. Valid values: A (approach), D (departure).</p> <p><b>L180</b> Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L165</b> Decibel adjustment at 165 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L150</b> Decibel adjustment at 150 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L135</b> Decibel adjustment at 135 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L120</b> Decibel adjustment at 120 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L105</b> Decibel adjustment at 105 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L090</b> Decibel adjustment at 90 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L075</b> Decibel adjustment at 75 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p> <p><b>L060</b> Decibel adjustment at 60 degrees left of the nose (dB).</p>
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anpHeloDirectivity

Valid values: Min = -99.9  
Max = 999.9.

**L045**

Decibel adjustment at 45  
degrees left of the nose (dB).  
Valid values: Min = -99.9  
Max = 999.9.

**L030**

Decibel adjustment at 30  
degrees left of the nose (dB).  
Valid values: Min = -99.9  
Max = 999.9.

**L015**

Decibel adjustment at 0  
degrees along the nose (dB).  
Valid values: Min = -99.9  
Max = 999.9.

**C000**

Decibel adjustment at 180  
degrees left of the nose (dB).  
Valid values: Min = -99.9  
Max = 999.9.

**R015**

Decibel adjustment at 15  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R030**

Decibel adjustment at 30  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R045**

Decibel adjustment at 45  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R060**

Decibel adjustment at 60  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R075**

Decibel adjustment at 75  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R090**

Decibel adjustment at 90  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R105**

Decibel adjustment at 105  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R120**

Decibel adjustment at 120  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

**R135**

Decibel adjustment at 135  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.


**R150**

Decibel adjustment at 150  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.

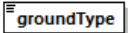
**R165**

Decibel adjustment at 165  
degrees right of the nose  
(dB). Valid values: Min =  
-99.9 Max = 999.9.


**R180**

	 <p>Decibel adjustment at 180 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
children	<b>groundType opMode L180 L165 L150 L135 L120 L105 L090 L075 L060 L045 L030 L015 C000 R015 R030 R045 R060 R075 R090 R105 R120 R135 R150 R165 R180</b>
used by	element <a href="#">anpHeloDirectivitySet/anpHeloDirectivity</a>


element **anpHeloDirectivity/groundType**

diagram	 <p>Type of ground resistivity. Valid values: H (hard), S (soft), F (file), N (none).</p>						
type	<b>anpHeloGroundType</b>						
properties	content simple						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>Hard H Software S File F None N</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	Hard H Software S File F None N	
Kind	Value	Annotation					
pattern	Hard H Software S File F None N						
annotation	documentation Type of ground resistivity. Valid values: H (hard), S (soft), F (file), N (none).						


element **anpHeloDirectivity/opMode**

diagram	 <p>Operational Mode. Valid values: A (approach), D (departure).</p>									
type	<b>string1</b>									
properties	content simple									
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>minLength</td> <td>0</td> <td></td> </tr> <tr> <td>maxLength</td> <td>1</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	minLength	0		maxLength	1	
Kind	Value	Annotation								
minLength	0									
maxLength	1									
annotation	documentation Operational Mode. Valid values: A (approach), D (departure).									

element **anpHeloDirectivity/L180**


diagram	 <p>Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/L165**


diagram	 <p>Decibel adjustment at 165 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 165 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/L150**


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diagram	 <p>Decibel adjustment at 150 degrees left of the nose (dB). Valid values: Min = -99,9 Max = 999,9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 150 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L135**

diagram	 <p>Decibel adjustment at 135 degrees left of the nose (dB). Valid values: Min = -99,9 Max = 999,9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 135 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L120**

diagram	 <p>Decibel adjustment at 120 degrees left of the nose (dB). Valid values: Min = -99,9 Max = 999,9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 120 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

#### element **anpHeloDirectivity/L105**


diagram	 <p>Decibel adjustment at 105 degrees left of the nose (dB). Valid values: Min = -99,9 Max = 999,9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 105 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

#### element **anpHeloDirectivity/L090**


diagram	 <p>Decibel adjustment at 90 degrees left of the nose (dB). Valid values: Min = -99,9 Max = 999,9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Decibel adjustment at 90 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L075**

diagram	 Decibel adjustment at 75 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 75 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L060**

diagram	 Decibel adjustment at 60 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 60 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L045**

diagram	 Decibel adjustment at 45 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 45 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

#### element **anpHeloDirectivity/L030**

diagram	 Decibel adjustment at 30 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 30 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


#### element **anpHeloDirectivity/L015**

diagram	 Decibel adjustment at 0 degrees along the nose (dB). Valid values: Min = -99.9 Max = 999.9.
type	<b>xs:double</b>




properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 0 degrees along the nose (dB). Valid values: Min = -99.9 Max = 999.9.


element **anpHeloDirectivity/C000**

diagram	 <p>Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


element **anpHeloDirectivity/R015**

diagram	 <p>Decibel adjustment at 15 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 15 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R030**


diagram	 <p>Decibel adjustment at 30 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 30 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R045**


diagram	 <p>Decibel adjustment at 45 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 45 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R060**


diagram	
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	 <p>Decibel adjustment at 60 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 60 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R075**

diagram	 <p>Decibel adjustment at 75 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 75 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.


element **anpHeloDirectivity/R090**

diagram	 <p>Decibel adjustment at 90 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 90 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R105**

diagram	 <p>Decibel adjustment at 105 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 105 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R120**

diagram	 <p>Decibel adjustment at 120 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Decibel adjustment at 120 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R135**

diagram	 <p>Decibel adjustment at 135 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 135 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R150**

diagram	 <p>Decibel adjustment at 150 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 150 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

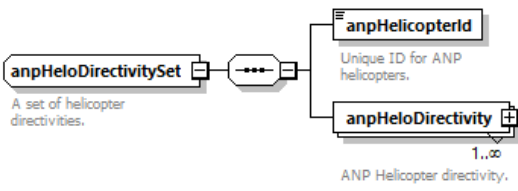
element **anpHeloDirectivity/R165**

diagram	 <p>Decibel adjustment at 165 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 165 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

element **anpHeloDirectivity/R180**

diagram	 <p>Decibel adjustment at 180 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel adjustment at 180 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

complexType **anpHeloDirectivitySet**

diagram	
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children	<a href="#">anpHelicopterId</a> <a href="#">anpHeloDirectivity</a>
used by	element <a href="#">fleet/anpHeloDirectivitySet</a>
annotation	documentation A set of helicopter directivities.

#### element [anpHeloDirectivitySet/anpHelicopterId](#)

diagram	
type	<a href="#">anpHeloDirectId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 12
annotation	documentation Unique ID for ANP helicopters.

#### element [anpHeloDirectivitySet/anpHeloDirectivity](#)

diagram	<pre> graph TD     anpHeloDirectivity[anpHeloDirectivity] --- groundType[groundType]     anpHeloDirectivity --- opMode[opMode]     anpHeloDirectivity --- L180[L180]     anpHeloDirectivity --- L165[L165]     anpHeloDirectivity --- L150[L150]     anpHeloDirectivity --- L135[L135]     anpHeloDirectivity --- L120[L120]     anpHeloDirectivity --- L105[L105]     anpHeloDirectivity --- L090[L090]     anpHeloDirectivity --- L075[L075]     anpHeloDirectivity --- L060[L060] </pre> <p><b>anpHeloDirectivity</b></p> <ul style="list-style-type: none"> <li><b>groundType</b> Type of ground resistivity. Valid values: H (hard), S (soft), F (file), N (none).</li> <li><b>opMode</b> Operational Mode. Valid values: A (approach), D (departure).</li> <li><b>L180</b> Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L165</b> Decibel adjustment at 165 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L150</b> Decibel adjustment at 150 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L135</b> Decibel adjustment at 135 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L120</b> Decibel adjustment at 120 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L105</b> Decibel adjustment at 105 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L090</b> Decibel adjustment at 90 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L075</b> Decibel adjustment at 75 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.</li> <li><b>L060</b></li> </ul>
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**anpHeloDirectivity**  
1..∞  
ANP Helicopter directivity.



Decibel adjustment at 60 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**L045**

Decibel adjustment at 45 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**L030**

Decibel adjustment at 30 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**L015**

Decibel adjustment at 0 degrees along the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**C000**

Decibel adjustment at 180 degrees left of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R015**

Decibel adjustment at 15 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R030**

Decibel adjustment at 30 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R045**

Decibel adjustment at 45 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R060**

Decibel adjustment at 60 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R075**

Decibel adjustment at 75 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R090**

Decibel adjustment at 90 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R105**

Decibel adjustment at 105 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R120**

Decibel adjustment at 120 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R135**

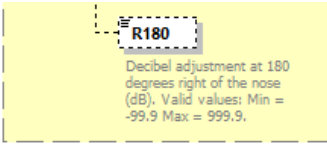
Decibel adjustment at 135 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R150**

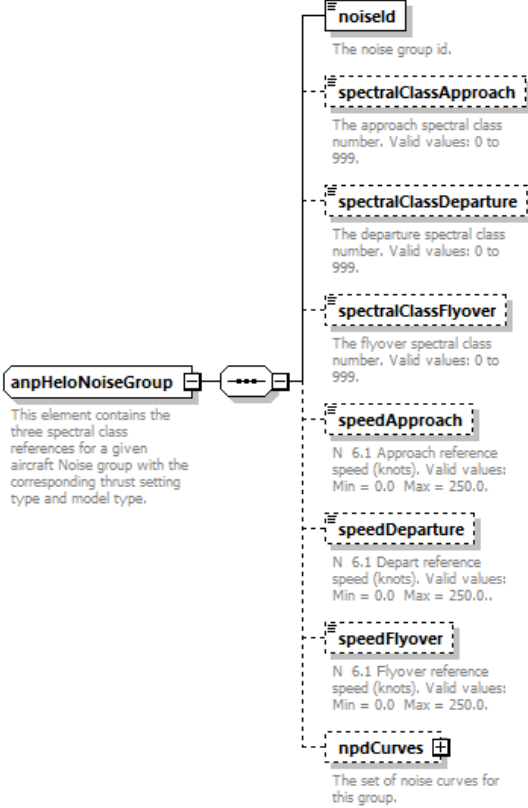
Decibel adjustment at 150 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

**R165**

Decibel adjustment at 165 degrees right of the nose (dB). Valid values: Min = -99.9 Max = 999.9.

	
type	<b>anpHeloDirectivity</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>groundType opMode L180 L165 L150 L135 L120 L105 L090 L075 L060 L045 L030 L015 C000 R015 R030 R045 R060 R075 R090 R105 R120 R135 R150 R165 R180</b>
annotation	documentation ANP Helicopter directivity.

complexType **anpHeloNoiseGroup**

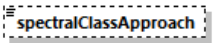
diagram	
children	<b>noiseld spectralClassApproach spectralClassDeparture spectralClassFlyover speedApproach speedDeparture speedFlyover npdCurves</b>
used by	element <b>fleet/anpHeloNoiseGroup</b>
annotation	documentation This element contains the three spectral class references for a given aircraft Noise group with the corresponding thrust setting type and model type.

element **anpHeloNoiseGroup/noiseld**

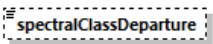
diagram	
type	<b>anpHeloNoiseld</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The noise group id.

element **anpHeloNoiseGroup/spectralClassApproach**

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diagram	 <p>The approach spectral class number. Valid values: 0 to 999.</p>
type	<b>xs:short</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The approach spectral class number. Valid values: 0 to 999.

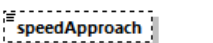
element **anpHeloNoiseGroup/spectralClassDeparture**

diagram	 <p>The departure spectral class number. Valid values: 0 to 999.</p>
type	<b>xs:short</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The departure spectral class number. Valid values: 0 to 999.

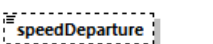
element **anpHeloNoiseGroup/spectralClassFlyover**

diagram	 <p>The flyover spectral class number. Valid values: 0 to 999.</p>
type	<b>xs:short</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The flyover spectral class number. Valid values: 0 to 999.

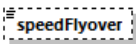
element **anpHeloNoiseGroup/speedApproach**

diagram	 <p>N 6.1 Approach reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation N 6.1 Approach reference speed (knots). Valid values: Min = 0.0 Max = 250.0.

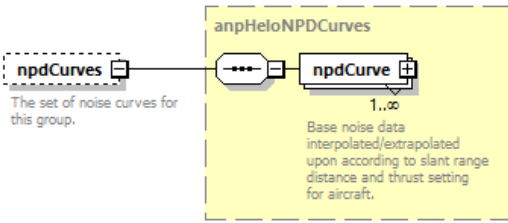
element **anpHeloNoiseGroup/speedDeparture**

diagram	 <p>N 6.1 Depart reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation N 6.1 Depart reference speed (knots). Valid values: Min = 0.0 Max = 250.0.

element **anpHeloNoiseGroup/speedFlyover**

diagram	 <p><b>speedFlyover</b></p> <p>N 6.1 Flyover reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation N 6.1 Flyover reference speed (knots). Valid values: Min = 0.0 Max = 250.0.

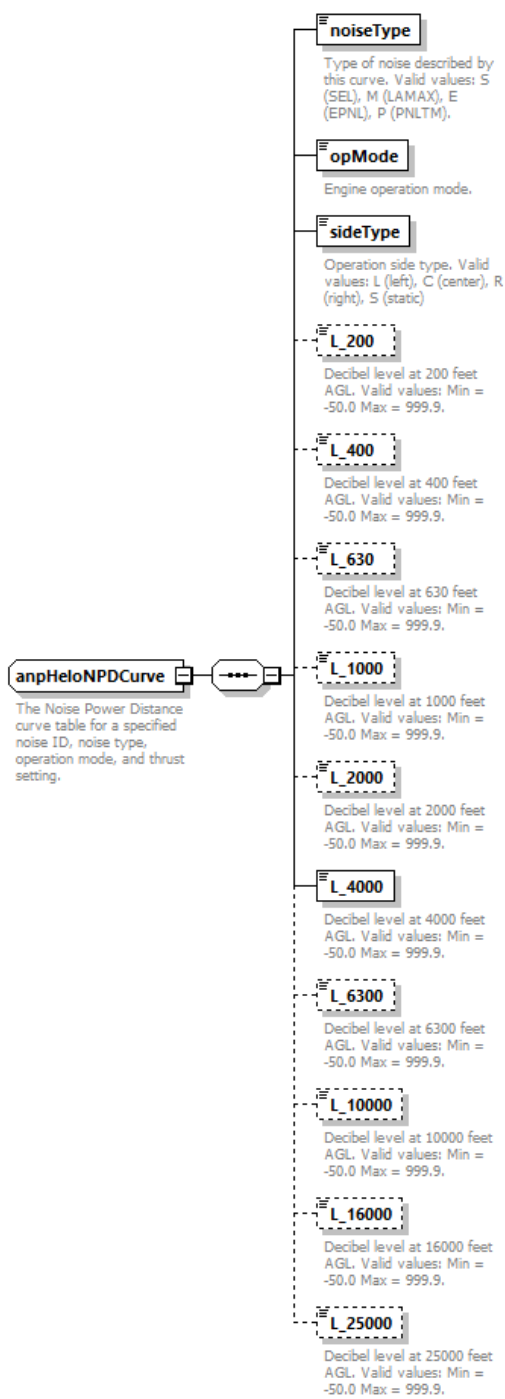
element **anpHeloNoiseGroup/npdCurves**

diagram	 <p><b>npdCurves</b></p> <p>The set of noise curves for this group.</p> <p><b>anpHeloNPDCurves</b></p> <p><b>npdCurve</b> 1..∞</p> <p>Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.</p>
type	<b>anpHeloNPDCurves</b>
properties	minOcc 0 maxOcc 1 content complex
children	<b>npdCurve</b>
annotation	documentation The set of noise curves for this group.

complexType **anpHeloNPDCurve**

diagram	
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
children	<a href="#">noiseType</a> <a href="#">opMode</a> <a href="#">sideType</a> <a href="#">L_200</a> <a href="#">L_400</a> <a href="#">L_630</a> <a href="#">L_1000</a> <a href="#">L_2000</a> <a href="#">L_4000</a> <a href="#">L_6300</a> <a href="#">L_10000</a> <a href="#">L_16000</a> <a href="#">L_25000</a>
used by	element <a href="#">anpHeloNPDcurves/npdCurve</a>
annotation	documentation The Noise Power Distance curve table for a specified noise ID, noise type, operation mode, and thrust setting.

element **anpHeloNPDcurve/noiseType**


diagram	<p><b>noiseType</b> Type of noise described by this curve. Valid values: S (SEL), M (LAMAX), E (EPNL), P (PNLTM).</p>
type	<b>anpNpdNoiseType</b>
properties	content simple
facets	Kind Value Annotation pattern S M E P

annotation	documentation Type of noise described by this curve. Valid values: S (SEL), M (LAMAX), E (EPNL), P (PNLTM).
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element **anpHeloNPDcurve/opMode**

diagram	 Engine operation mode.
type	<a href="#">anpNpdOpMode</a>
properties	content simple
facets	Kind Value Annotation pattern A D L G H I J V W Y Z B C E F X S
annotation	documentation Engine operation mode.


element **anpHeloNPDcurve/sideType**

diagram	 Operation side type. Valid values: L (left), C (center), R (right), S (static)
type	<a href="#">anpHeloSideType</a>
properties	content simple
facets	Kind Value Annotation pattern Left L Center C Right R Static S
annotation	documentation Operation side type. Valid values: L (left), C (center), R (right), S (static)

element **anpHeloNPDcurve/L\_200**

diagram	 Decibel level at 200 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 200 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDcurve/L\_400**


diagram	 Decibel level at 400 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 400 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDcurve/L\_630**

diagram	 Decibel level at 630 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1

	content simple
annotation	documentation Decibel level at 630 feet AGL. Valid values: Min = -50.0 Max = 999.9.


element **anpHeloNPDCurve/L\_1000**

diagram	 <p>Decibel level at 1000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 1000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDCurve/L\_2000**

diagram	 <p>Decibel level at 2000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 2000 feet AGL. Valid values: Min = -50.0 Max = 999.9.


element **anpHeloNPDCurve/L\_4000**

diagram	 <p>Decibel level at 4000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 4000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDCurve/L\_6300**


diagram	 <p>Decibel level at 6300 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 6300 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDCurve/L\_10000**


diagram	 <p>Decibel level at 10000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple

annotation	documentation Decibel level at 10000 feet AGL. Valid values: Min = -50.0 Max = 999.9.
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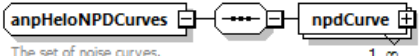
element **anpHeloNPDCurve/L\_16000**

diagram	 <p>Decibel level at 16000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 16000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpHeloNPDCurve/L\_25000**

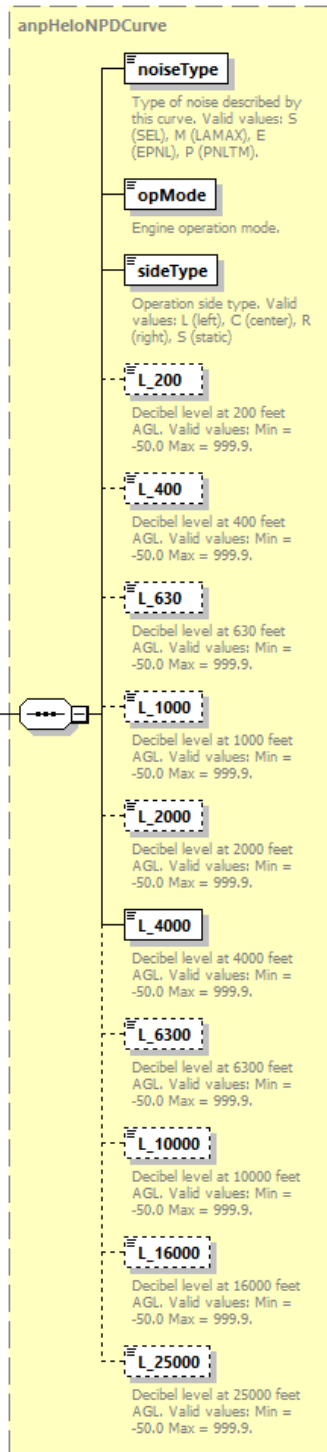
diagram	 <p>Decibel level at 25000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Decibel level at 25000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

complexType **anpHeloNPDCurves**

diagram	 <p>The set of noise curves.</p> <p>1..∞</p> <p>Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.</p>
children	<a href="#">npdCurve</a>
used by	element <a href="#">anpHeloNoiseGroup/npdCurves</a>
annotation	documentation The set of noise curves.

element **anpHeloNPDCurves/npdCurve**

diagram	
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**npdCurve**  
1..∞  
Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.

type	<b>anpHeloNPDCurve</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>noiseType opMode sideType L_200 L_400 L_630 L_1000 L_2000 L_4000 L_6300 L_10000 L_16000 L_25000</b>
annotation	documentation Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.


complexType	<b>anpHeloProcedureStep</b>
diagram	

	<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 10px;">anpHeloProcedureStep</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px; margin-right: 10px;">...</div> <div style="border: 1px solid black; padding: 2px;"> <p><b>stepNum</b> Step number of the procedure. Must be unique in a sequence.</p> <p><b>operationType</b> Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&amp;Go), F (CircuitFit), V (OverFit)</p> <p><b>profileGroupld</b> Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).</p> <p><b>profileStageLength</b> Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).</p> <p><b>stepType</b> Type of step. (A) Approach at constant speed, (D) Depart at constant speed, (L) Level flyover at constant speed, (G) Ground idle, (H) Flight idle, (I) Hover in ground effect, (J) Hover out of ground effect, (V) Vertical ascent in ground effect, (W) Vertical ascent out of ground effect, (Y) Vertical descent in ground effect, (Z) Vertical descent out of ground effect, (B) Approach with horizontal deceleration, (C) Approach with descending deceleration, (E) Depart with horizontal acceleration, (F) Depart with climbing acceleration, (X) Taxi at constant speed, (S) Start altitude at constant speed</p> <p><b>duration</b> Procedure's duration (hours).</p> <p><b>distance</b> Distance along the ground relative to start (min = 79999999.9, max = 9999999.9, feet).</p> <p><b>altitude</b> Altitude of aircraft (min = -9999, max = 60000, feet).</p> <p><b>speed</b> Ground speed at this point (min = 0, max = 600, knots).</p> </div> </div> <p>Procedure data element.</p>
children	<a href="#">stepNum</a> <a href="#">operationType</a> <a href="#">profileGroupld</a> <a href="#">profileStageLength</a> <a href="#">stepType</a> <a href="#">duration</a> <a href="#">distance</a> <a href="#">altitude</a> <a href="#">speed</a>
used by	element <a href="#">anpHeloProfile/step</a>
annotation	documentation Procedure data element.


element <b>anpHeloProcedureStep/stepNum</b>	
diagram	<div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;"> <p><b>stepNum</b></p> <p>Step number of the procedure. Must be unique in a sequence.</p> </div>
type	<b>xs:int</b>
properties	content simple

annotation	documentation Step number of the procedure. Must be unique in a sequence.
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element **anpHeloProcedureStep/operationType**

diagram	 <p>Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&amp;Go), F (CircuitFit), V (OverFit)</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&Go), F (CircuitFit), V (OverFit)

element **anpHeloProcedureStep/profileGroupId**


diagram	 <p>Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).</p>
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).

element **anpHeloProcedureStep/profileStageLength**

diagram	 <p>Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).

element **anpHeloProcedureStep/stepType**


diagram	
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	 <p>Type of step. (A) Approach at constant speed, (D) Depart at constant speed, (L) Level flyover at constant speed, (G) Ground idle, (H) Flight idle, (I) Hover in ground effect, (J) Hover out of ground effect, (V) Vertical ascent in ground effect, (W) Vertical ascent out of ground effect, (Y) Vertical descent in ground effect, (Z) Vertical descent out of ground effect, (B) Approach with horizontal deceleration, (C) Approach with descending deceleration, (E) Depart with horizontal acceleration, (F) Depart with climbing acceleration, (X) Taxi at constant speed, (S) Start altitude at constant speed</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of step. (A) Approach at constant speed, (D) Depart at constant speed, (L) Level flyover at constant speed, (G) Ground idle, (H) Flight idle, (I) Hover in ground effect, (J) Hover out of ground effect, (V) Vertical ascent in ground effect, (W) Vertical ascent out of ground effect, (Y) Vertical descent in ground effect, (Z) Vertical descent out of ground effect, (B) Approach with horizontal deceleration, (C) Approach with descending deceleration, (E) Depart with horizontal acceleration, (F) Depart with climbing acceleration, (X) Taxi at constant speed, (S) Start altitude at constant speed

#### element **anpHeloProcedureStep/duration**

diagram	 <p>Procedure's duration (hours).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Procedure's duration (hours).

#### element **anpHeloProcedureStep/distance**

diagram	 <p>Distance along the ground relative to start (min = ?9999999.9, max = 9999999.9, feet).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Distance along the ground relative to start (min = ?9999999.9, max = 9999999.9, feet).

#### element **anpHeloProcedureStep/altitude**

diagram	 <p>Altitude of aircraft (min = -9999, max = 60000, feet).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

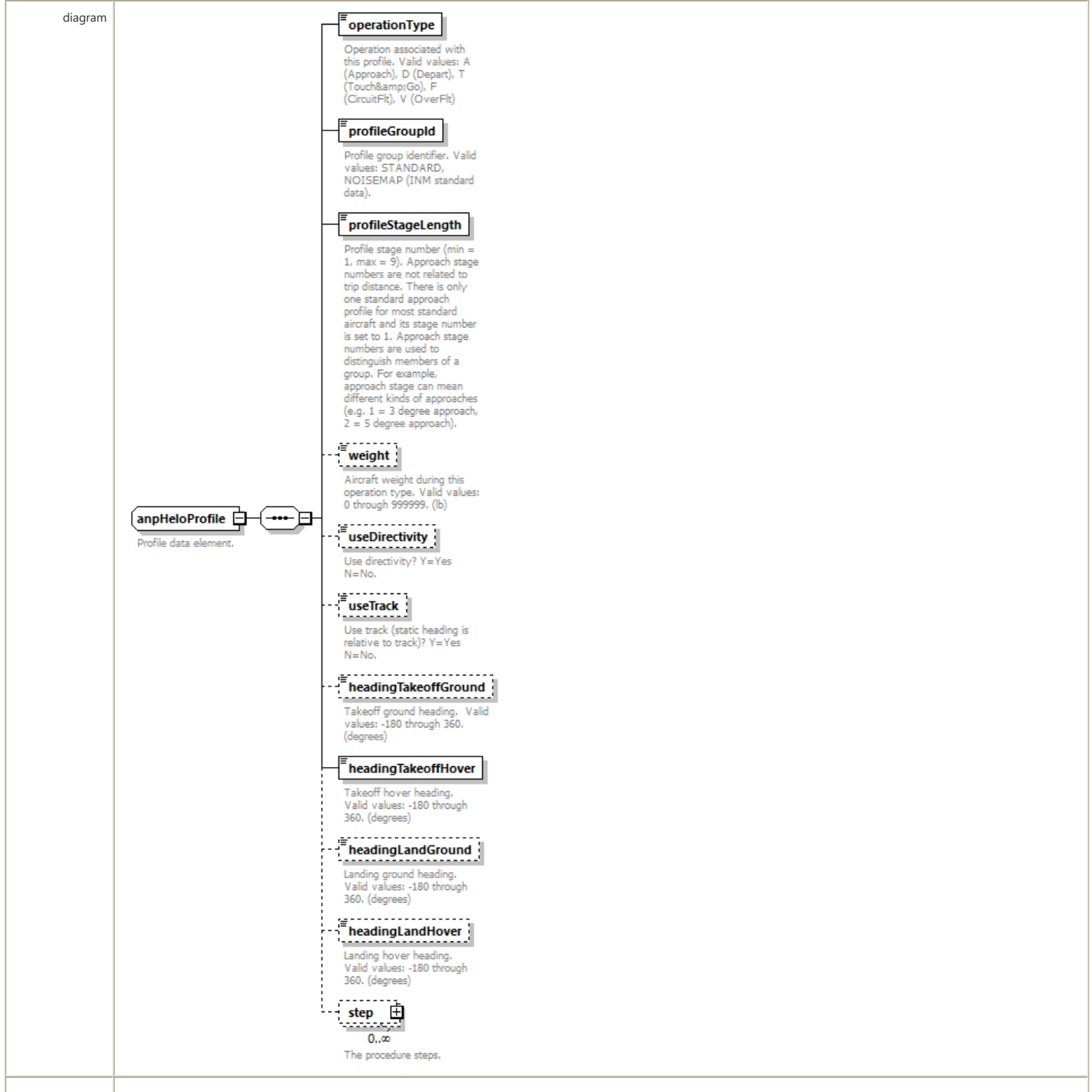


Altitude of aircraft (min = -9999, max = 60000, feet).

element **anpHeloProcedureStep/speed**

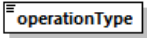
diagram	 <p>Ground speed at this point (min = 0, max = 600, knots).</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Ground speed at this point (min = 0, max = 600, knots).

complexType **anpHeloProfile**




children	<a href="#">operationType</a> <a href="#">profileGroupld</a> <a href="#">profileStageLength</a> <a href="#">weight</a> <a href="#">useDirectivity</a> <a href="#">useTrack</a> <a href="#">headingTakeoffGround</a> <a href="#">headingTakeoffHover</a> <a href="#">headingLandGround</a> <a href="#">headingLandHover</a> <a href="#">step</a>
used by	element <a href="#">anpHeloProfileSet/profile</a>
annotation	documentation Profile data element.


#### element [anpHeloProfile/operationType](#)

diagram	 <p>Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&amp;Go), F (CircuitFlt), V (OverFlt)</p>
type	<a href="#">string1</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&Go), F (CircuitFlt), V (OverFlt)

#### element [anpHeloProfile/profileGroupld](#)


diagram	 <p>Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).</p>
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).

#### element [anpHeloProfile/profileStageLength](#)

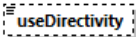
diagram	 <p>Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).</p>
type	<a href="#">string1</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).

#### element [anpHeloProfile/weight](#)

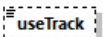
diagram	
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	 <p>Aircraft weight during this operation type. Valid values: 0 through 999999. (lb)</p>
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Aircraft weight during this operation type. Valid values: 0 through 999999. (lb)

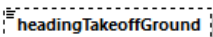
element **anpHeloProfile/useDirectivity**

diagram	 <p>Use directivity? Y=Yes N=No.</p>
type	<b>yesNoType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Yes Y No N
annotation	documentation Use directivity? Y=Yes N=No.

element **anpHeloProfile/useTrack**

diagram	 <p>Use track (static heading is relative to track)? Y=Yes N=No.</p>
type	<b>yesNoType</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation pattern Yes Y No N
annotation	documentation Use track (static heading is relative to track)? Y=Yes N=No.

element **anpHeloProfile/headingTakeoffGround**

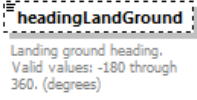
diagram	 <p>Takeoff ground heading. Valid values: -180 through 360. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Takeoff ground heading. Valid values: -180 through 360. (degrees)

element **anpHeloProfile/headingTakeoffHover**

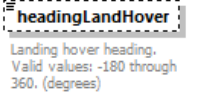
diagram	 <p>Takeoff hover heading. Valid values: -180 through 360. (degrees)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation

Takeoff hover heading. Valid values: -180 through 360. (degrees)

element **anpHeloProfile/headingLandGround**

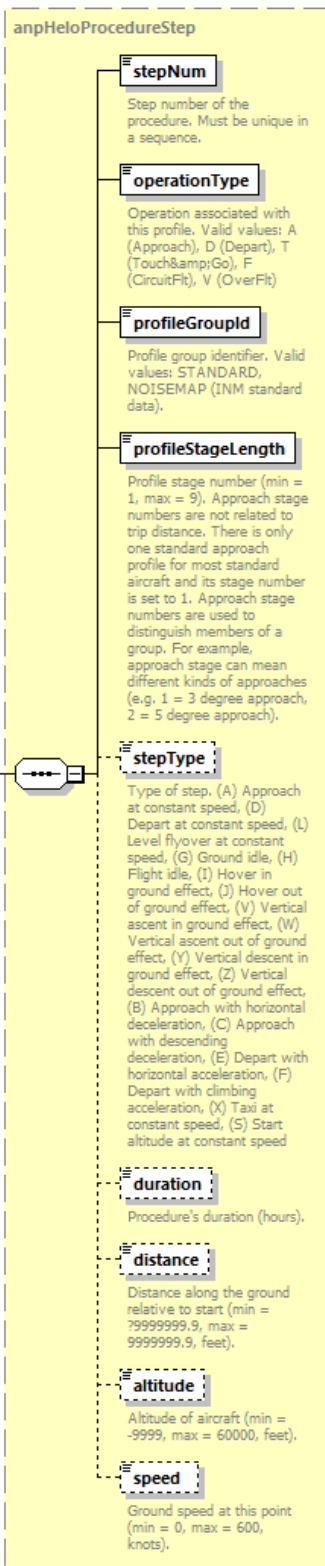
diagram	 <p><b>headingLandGround</b> Landing ground heading. Valid values: -180 through 360. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Landing ground heading. Valid values: -180 through 360. (degrees)

element **anpHeloProfile/headingLandHover**

diagram	 <p><b>headingLandHover</b> Landing hover heading. Valid values: -180 through 360. (degrees)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Landing hover heading. Valid values: -180 through 360. (degrees)

element **anpHeloProfile/step**

diagram	
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type	<a href="#">anpHeloProcedureStep</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">stepNum</a> <a href="#">operationType</a> <a href="#">profileGroupld</a> <a href="#">profileStageLength</a> <a href="#">stepType</a> <a href="#">duration</a> <a href="#">distance</a> <a href="#">altitude</a> <a href="#">speed</a>
annotation	documentation The procedure steps.

complexType **anpHeloProfileSet**

diagram	
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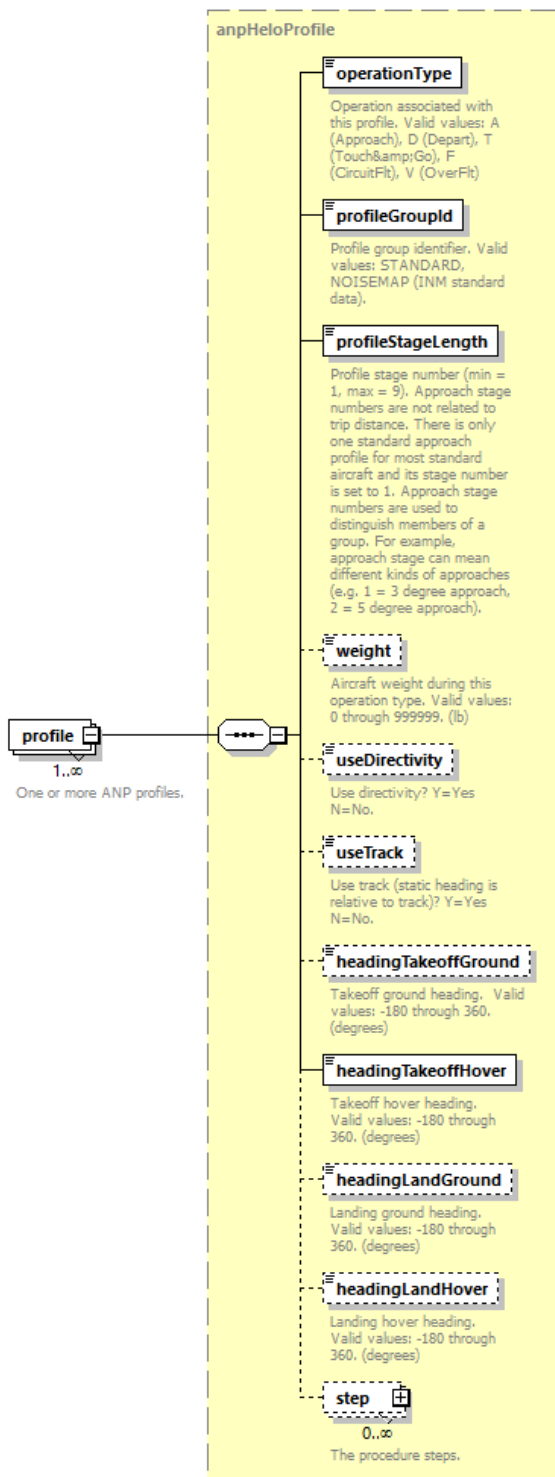
	<pre> classDiagram     class anpHeloProfileSet {         "A profile set for an ANP helicopter."     }     class anpHelicopterId {         "The anp helicopter id."     }     class profile {         "One or more ANP profiles."     }     anpHeloProfileSet "1" -- "*" anpHelicopterId     anpHeloProfileSet "1" -- "1..∞" profile     </pre>
children	<a href="#">anpHelicopterId</a> <a href="#">profile</a>
used by	element <a href="#">fleet/anpHeloProfileSet</a>
annotation	documentation A profile set for an ANP helicopter.

element **anpHeloProfileSet/anpHelicopterId**

diagram	<pre> classDiagram     class anpHelicopterId {         "The anp helicopter id."     }     </pre>
type	<a href="#">anpHeloid</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The anp helicopter id.

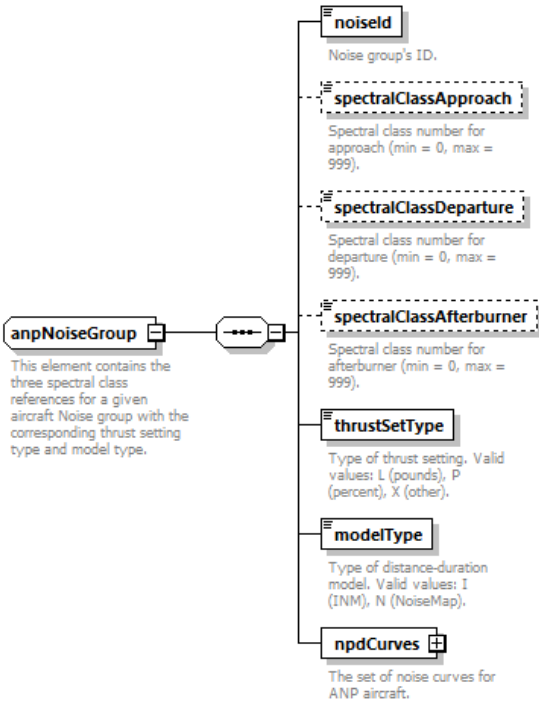
element **anpHeloProfileSet/profile**

diagram	
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type	<b>anpHeloProfile</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">operationType</a> <a href="#">profileGroupld</a> <a href="#">profileStageLength</a> <a href="#">weight</a> <a href="#">useDirectivity</a> <a href="#">useTrack</a> <a href="#">headingTakeoffGround</a> <a href="#">headingTakeoffHover</a> <a href="#">headingLandGround</a> <a href="#">headingLandHover</a> <a href="#">step</a>
annotation	documentation One or more ANP profiles.

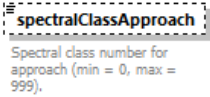
complexType	<b>anpNoiseGroup</b>
diagram	

	 <p><b>anpNoiseGroup</b> This element contains the three spectral class references for a given aircraft Noise group with the corresponding thrust setting type and model type.</p> <p><b>noiseld</b> Noise group's ID.</p> <p><b>spectralClassApproach</b> Spectral class number for approach (min = 0, max = 999).</p> <p><b>spectralClassDeparture</b> Spectral class number for departure (min = 0, max = 999).</p> <p><b>spectralClassAfterburner</b> Spectral class number for afterburner (min = 0, max = 999).</p> <p><b>thrustSetType</b> Type of thrust setting. Valid values: L (pounds), P (percent), X (other).</p> <p><b>modelType</b> Type of distance-duration model. Valid values: I (INM), N (NoiseMap).</p> <p><b>npdCurves</b> The set of noise curves for ANP aircraft.</p>
children	<a href="#">noiseld</a> <a href="#">spectralClassApproach</a> <a href="#">spectralClassDeparture</a> <a href="#">spectralClassAfterburner</a> <a href="#">thrustSetType</a> <a href="#">modelType</a> <a href="#">npdCurves</a>
used by	element <a href="#">fleet/anpNoiseGroup</a>
annotation	documentation This element contains the three spectral class references for a given aircraft Noise group with the corresponding thrust setting type and model type.

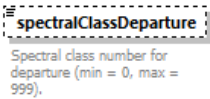
#### element **anpNoiseGroup/noiseld**

diagram	
type	<a href="#">anpNoiseld</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Noise group's ID.

#### element **anpNoiseGroup/spectralClassApproach**

diagram	
type	<b>xs:short</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Spectral class number for approach (min = 0, max = 999).

#### element **anpNoiseGroup/spectralClassDeparture**

diagram	
type	<b>xs:short</b>
properties	minOcc 0




	maxOcc 1 content simple
annotation	documentation Spectral class number for departure (min = 0, max = 999).


element **anpNoiseGroup/spectralClassAfterburner**

diagram	 <p>spectralClassAfterburner</p> <p>Spectral class number for afterburner (min = 0, max = 999).</p>
type	<b>xs:short</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Spectral class number for afterburner (min = 0, max = 999).

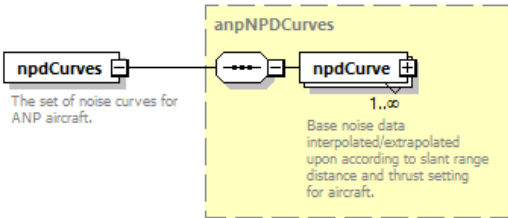
element **anpNoiseGroup/thrustSetType**

diagram	 <p>thrustSetType</p> <p>Type of thrust setting. Valid values: L (pounds), P (percent), X (other).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of thrust setting. Valid values: L (pounds), P (percent), X (other).

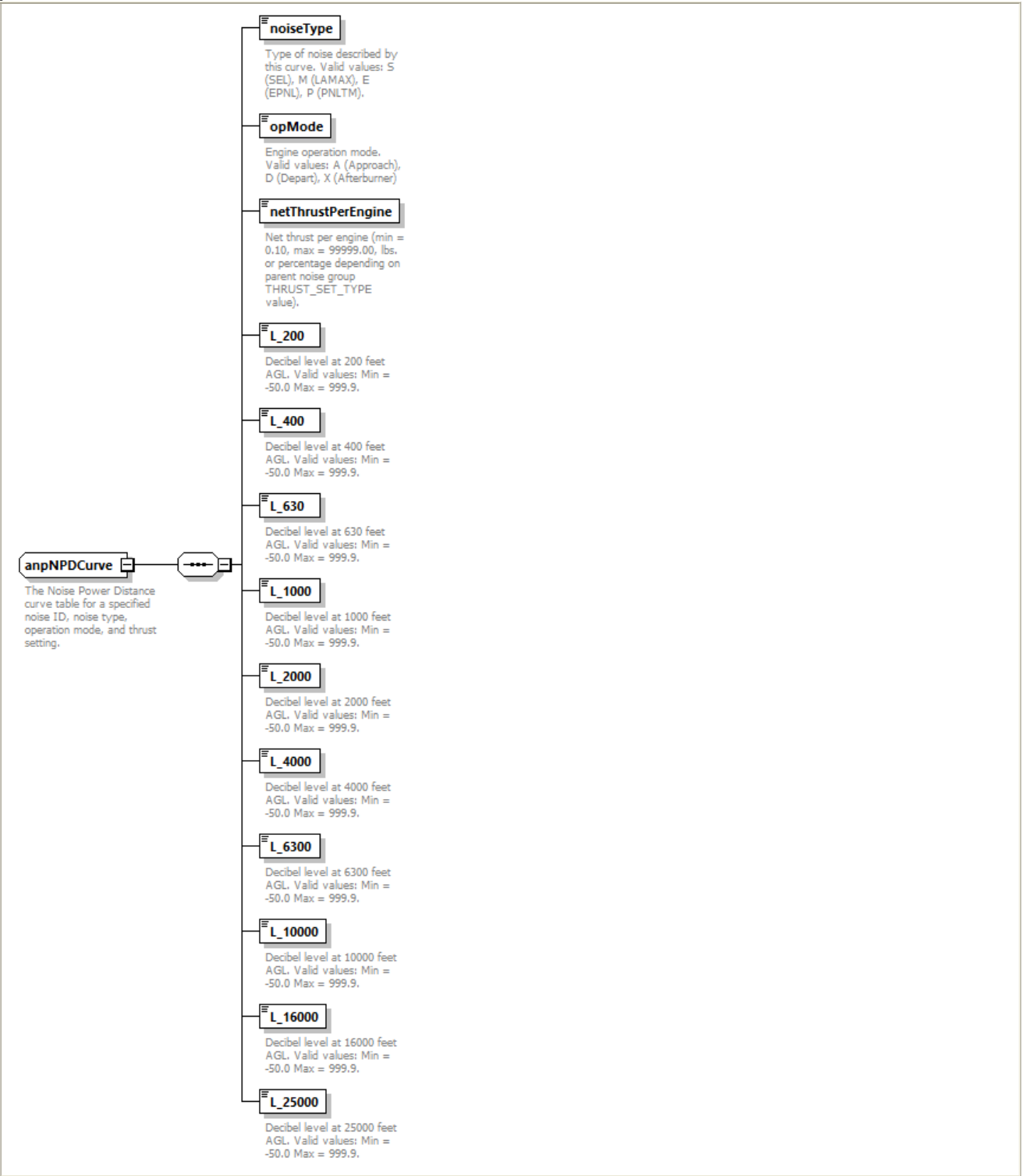
element **anpNoiseGroup/modelType**

diagram	 <p>modelType</p> <p>Type of distance-duration model. Valid values: I (INM), N (NoiseMap).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of distance-duration model. Valid values: I (INM), N (NoiseMap).

element **anpNoiseGroup/npdCurves**

diagram	 <p>The set of noise curves for ANP aircraft.</p> <p>anpNPDCurves</p> <p>npdCurve 1..∞</p> <p>Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.</p>
type	<b>anpNPDCurves</b>
properties	content complex
children	<b>npdCurve</b>
annotation	documentation The set of noise curves for ANP aircraft.

complexType **anpNPDCurve**


<p>diagram</p> 	<p><b>noiseType</b> Type of noise described by this curve. Valid values: S (SEL), M (LAMAX), E (EPNL), P (PNLTM).</p> <p><b>opMode</b> Engine operation mode. Valid values: A (Approach), D (Depart), X (Afterburner)</p> <p><b>netThrustPerEngine</b> Net thrust per engine (min = 0.10, max = 99999.00, lbs. or percentage depending on parent noise group THRUST_SET_TYPE value).</p> <p><b>L_200</b> Decibel level at 200 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_400</b> Decibel level at 400 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_630</b> Decibel level at 630 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_1000</b> Decibel level at 1000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_2000</b> Decibel level at 2000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_4000</b> Decibel level at 4000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_6300</b> Decibel level at 6300 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_10000</b> Decibel level at 10000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_16000</b> Decibel level at 16000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p> <p><b>L_25000</b> Decibel level at 25000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
<p>children</p>	<p><a href="#">noiseType</a> <a href="#">opMode</a> <a href="#">netThrustPerEngine</a> <a href="#">L_200</a> <a href="#">L_400</a> <a href="#">L_630</a> <a href="#">L_1000</a> <a href="#">L_2000</a> <a href="#">L_4000</a> <a href="#">L_6300</a> <a href="#">L_10000</a> <a href="#">L_16000</a> <a href="#">L_25000</a></p>
<p>used by</p>	<p>element <a href="#">anpNPDCurves/npdCurve</a></p>
<p>annotation</p>	<p>documentation The Noise Power Distance curve table for a specified noise ID, noise type, operation mode, and thrust setting.</p>

element **anpNPDCurve/noiseType**

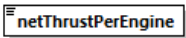
<p>diagram</p>	<p><b>noiseType</b> Type of noise described by this curve. Valid values: S (SEL), M (LAMAX), E (EPNL), P (PNLTM).</p>
<p>type</p>	<p><a href="#">anpNpdNoiseType</a></p>

properties	content simple
facets	Kind Value Annotation pattern S M E P
annotation	documentation Type of noise described by this curve. Valid values: S (SEL), M (LAMAX), E (EPNL), P (PNLTM).


#### element **anpNPDCurve/opMode**

diagram	 Engine operation mode. Valid values: A (Approach), D (Depart), X (Afterburner)
type	<a href="#">anpNpdOpMode</a>
properties	content simple
facets	Kind Value Annotation pattern A D L G H I J K V W Y Z B C E F X S
annotation	documentation Engine operation mode. Valid values: A (Approach), D (Depart), X (Afterburner)


#### element **anpNPDCurve/netThrustPerEngine**

diagram	 Net thrust per engine (min = 0.10, max = 99999.00, lbs. or percentage depending on parent noise group THRUST_SET_TYPE value).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Net thrust per engine (min = 0.10, max = 99999.00, lbs. or percentage depending on parent noise group THRUST_SET_TYPE value).


#### element **anpNPDCurve/L\_200**

diagram	 Decibel level at 200 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 200 feet AGL. Valid values: Min = -50.0 Max = 999.9.

#### element **anpNPDCurve/L\_400**


diagram	 Decibel level at 400 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 400 feet AGL. Valid values: Min = -50.0 Max = 999.9.

#### element **anpNPDCurve/L\_630**


diagram	 Decibel level at 630 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	content simple

annotation	documentation Decibel level at 630 feet AGL. Valid values: Min = -50.0 Max = 999.9.
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
element **anpNPDCurve/L\_1000**

diagram	 <p>Decibel level at 1000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 1000 feet AGL. Valid values: Min = -50.0 Max = 999.9.


element **anpNPDCurve/L\_2000**

diagram	 <p>Decibel level at 2000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 2000 feet AGL. Valid values: Min = -50.0 Max = 999.9.


element **anpNPDCurve/L\_4000**

diagram	 <p>Decibel level at 4000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 4000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpNPDCurve/L\_6300**

diagram	 <p>Decibel level at 6300 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 6300 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpNPDCurve/L\_10000**

diagram	 <p>Decibel level at 10000 feet AGL. Valid values: Min = -50.0 Max = 999.9.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 10000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpNPDCurve/L\_16000**

diagram	
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	<div style="border: 1px solid black; padding: 2px; display: inline-block;">L_16000</div> Decibel level at 16000 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 16000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

element **anpNPDCurve/L\_25000**

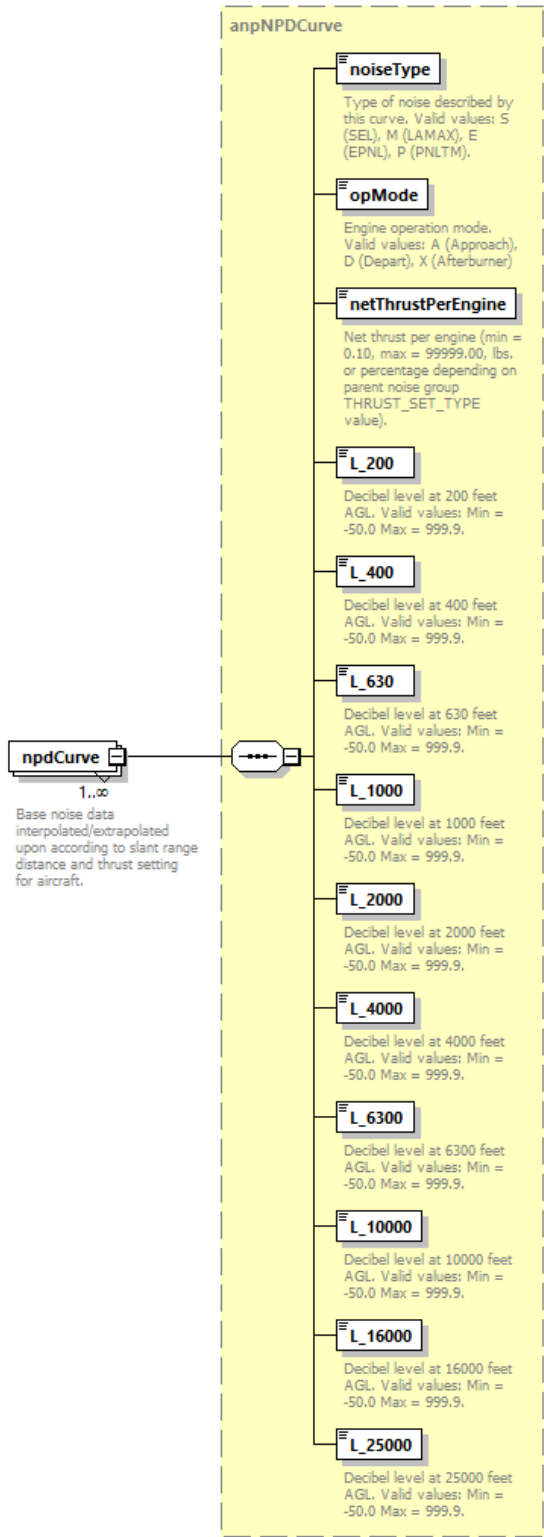
diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;">L_25000</div> Decibel level at 25000 feet AGL. Valid values: Min = -50.0 Max = 999.9.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Decibel level at 25000 feet AGL. Valid values: Min = -50.0 Max = 999.9.

complexType **anpNPDCurves**

diagram	<pre> classDiagram     class anpNPDCurves {         +npdCurve 1..∞     }     anpNPDCurves "1" -- "1..∞" npdCurve </pre> <p>The set of defined noise curves.</p> <p>1..∞ Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.</p>
children	<a href="#">npdCurve</a>
used by	element <a href="#">anpNoiseGroup/npdCurves</a>
annotation	documentation The set of defined noise curves.

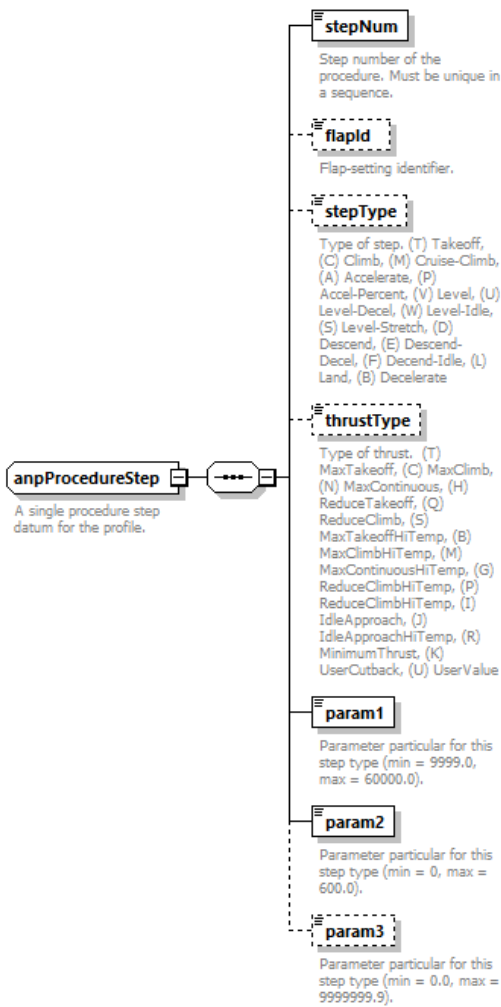
element **anpNPDCurves/npdCurve**

diagram	
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type	<a href="#">anpNPDCurve</a>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">noiseType</a> <a href="#">opMode</a> <a href="#">netThrustPerEngine</a> <a href="#">L_200</a> <a href="#">L_400</a> <a href="#">L_630</a> <a href="#">L_1000</a> <a href="#">L_2000</a> <a href="#">L_4000</a> <a href="#">L_6300</a> <a href="#">L_10000</a> <a href="#">L_16000</a> <a href="#">L_25000</a>
annotation	documentation Base noise data interpolated/extrapolated upon according to slant range distance and thrust setting for aircraft.

complexType	<a href="#">anpProcedureStep</a>
diagram	



children	<a href="#">stepNum</a> <a href="#">flapId</a> <a href="#">stepType</a> <a href="#">thrustType</a> <a href="#">param1</a> <a href="#">param2</a> <a href="#">param3</a>
used by	element <a href="#">anpProcedureSteps/step</a>
annotation	documentation A single procedure step datum for the profile.

#### element [anpProcedureStep/stepNum](#)


diagram	
type	<b>xs:int</b>
properties	content simple
annotation	documentation Step number of the procedure. Must be unique in a sequence.

#### element [anpProcedureStep/flapId](#)

diagram	
type	<b>anpFlapId</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 6
annotation	documentation

Flap-setting identifier.


#### element **anpProcedureStep/stepType**

diagram	 <p>Type of step. (T) Takeoff, (C) Climb, (M) Cruise-Climb, (A) Accelerate, (P) Accel-Percent, (V) Level, (U) Level-Decel, (W) Level-Idle, (S) Level-Stretch, (D) Descend, (E) Descend-Decel, (F) Decend-Idle, (L) Land, (B) Decelerate</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of step. (T) Takeoff, (C) Climb, (M) Cruise-Climb, (A) Accelerate, (P) Accel-Percent, (V) Level, (U) Level-Decel, (W) Level-Idle, (S) Level-Stretch, (D) Descend, (E) Descend-Decel, (F) Decend-Idle, (L) Land, (B) Decelerate


#### element **anpProcedureStep/thrustType**

diagram	 <p>Type of thrust. (T) MaxTakeoff, (C) MaxClimb, (N) MaxContinuous, (H) ReduceTakeoff, (Q) ReduceClimb, (S) MaxTakeoffHiTemp, (B) MaxClimbHiTemp, (M) MaxContinuousHiTemp, (G) ReduceClimbHiTemp, (P) ReduceClimbHiTemp, (I) IdleApproach, (J) IdleApproachHiTemp, (R) MinimumThrust, (K) UserCutback, (U) UserValue</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of thrust. (T) MaxTakeoff, (C) MaxClimb, (N) MaxContinuous, (H) ReduceTakeoff, (Q) ReduceClimb, (S) MaxTakeoffHiTemp, (B) MaxClimbHiTemp, (M) MaxContinuousHiTemp, (G) ReduceClimbHiTemp, (P) ReduceClimbHiTemp, (I) IdleApproach, (J) IdleApproachHiTemp, (R) MinimumThrust, (K) UserCutback, (U) UserValue

#### element **anpProcedureStep/param1**

diagram	 <p>Parameter particular for this step type (min = 9999.0, max = 60000.0).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Parameter particular for this step type (min = 9999.0, max = 60000.0).

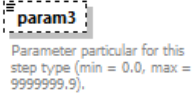
#### element **anpProcedureStep/param2**

diagram	 <p>Parameter particular for this step type (min = 0, max = 600.0).</p>
type	<b>xs:double</b>

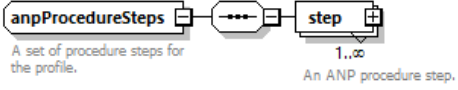


properties	content simple
annotation	documentation Parameter particular for this step type (min = 0, max = 600.0).

element **anpProcedureStep/param3**

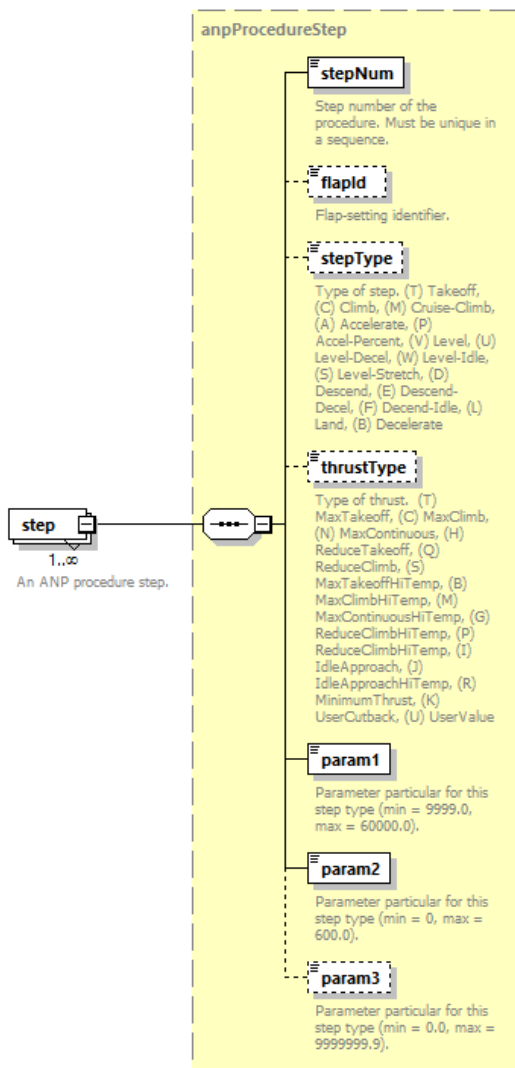
diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Parameter particular for this step type (min = 0.0, max = 9999999.9).

complexType **anpProcedureSteps**

diagram	
children	<b>step</b>
used by	element <a href="#">anpProfile/procedureSteps</a>
annotation	documentation A set of procedure steps for the profile.

element **anpProcedureSteps/step**

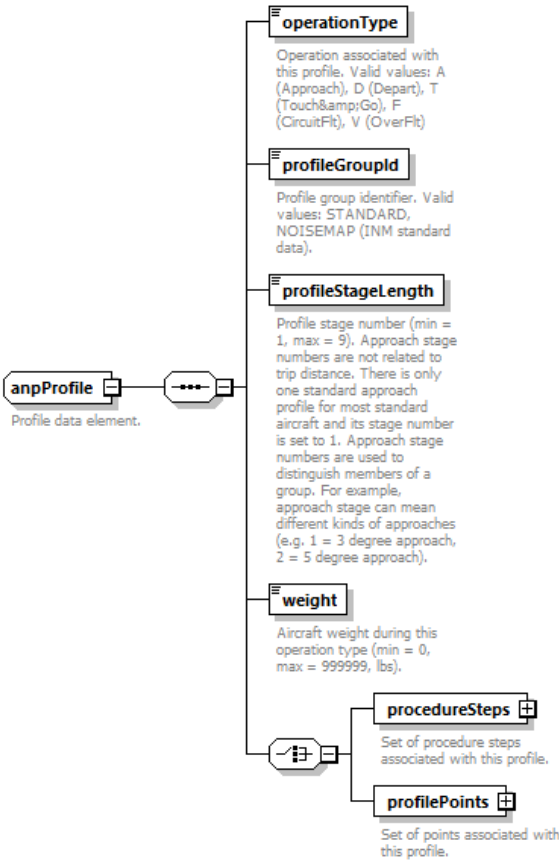
diagram	
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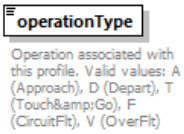
type	<b><a href="#">anpProcedureStep</a></b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b><a href="#">stepNum</a></b> <b><a href="#">flapId</a></b> <b><a href="#">stepType</a></b> <b><a href="#">thrustType</a></b> <b><a href="#">param1</a></b> <b><a href="#">param2</a></b> <b><a href="#">param3</a></b>
annotation	documentation An ANP procedure step.

complexType **anpProfile**


diagram	
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	 <p>The diagram shows the structure of the <b>anpProfile</b> element. It is a container element (rectangle with a small square on the right) labeled "anpProfile" with the text "Profile data element." below it. Inside the container, there are four main child elements connected by a vertical line:</p> <ul style="list-style-type: none"> <li><b>operationType</b>: A simple text element with a description: "Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&amp;Go), F (CircuitFlt), V (OverFlt)".</li> <li><b>profileGroupld</b>: A simple text element with a description: "Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).".</li> <li><b>profileStageLength</b>: A simple text element with a description: "Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).".</li> <li><b>weight</b>: A simple text element with a description: "Aircraft weight during this operation type (min = 0, max = 999999, lbs).".</li> </ul> <p>Below the <b>weight</b> element, there are two more child elements connected by a vertical line:</p> <ul style="list-style-type: none"> <li><b>procedureSteps</b>: A set element (rectangle with a small square and a plus sign) with a description: "Set of procedure steps associated with this profile.".</li> <li><b>profilePoints</b>: A set element (rectangle with a small square and a plus sign) with a description: "Set of points associated with this profile.".</li> </ul>
children	<a href="#">operationType</a> <a href="#">profileGroupld</a> <a href="#">profileStageLength</a> <a href="#">weight</a> <a href="#">procedureSteps</a> <a href="#">profilePoints</a>
used by	element <a href="#">anpProfileSet/profile</a>
annotation	documentation Profile data element.


#### element **anpProfile/operationType**

diagram	 <p>The diagram shows the <b>operationType</b> element, a simple text element (rectangle with a small square on the right) with a description: "Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&amp;Go), F (CircuitFlt), V (OverFlt)".</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Operation associated with this profile. Valid values: A (Approach), D (Depart), T (Touch&Go), F (CircuitFlt), V (OverFlt)


#### element **anpProfile/profileGroupld**

diagram	 <p>The diagram shows the <b>profileGroupld</b> element, a simple text element (rectangle with a small square on the right) with a description: "Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).".</p>
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Profile group identifier. Valid values: STANDARD, NOISEMAP (INM standard data).

element **anpProfile/profileStageLength**

diagram	 <p>Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).</p>
type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Profile stage number (min = 1, max = 9). Approach stage numbers are not related to trip distance. There is only one standard approach profile for most standard aircraft and its stage number is set to 1. Approach stage numbers are used to distinguish members of a group. For example, approach stage can mean different kinds of approaches (e.g. 1 = 3 degree approach, 2 = 5 degree approach).

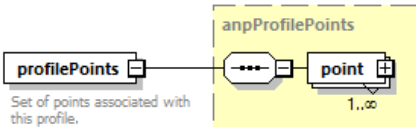
element **anpProfile/weight**

diagram	 <p>Aircraft weight during this operation type (min = 0, max = 999999, lbs).</p>
type	<b>xs:int</b>
properties	content simple
annotation	documentation Aircraft weight during this operation type (min = 0, max = 999999, lbs).

element **anpProfile/procedureSteps**

diagram	 <p>Set of procedure steps associated with this profile.</p> <p>1..∞ An ANP procedure step.</p>
type	<b>anpProcedureSteps</b>
properties	content complex
children	<b>step</b>
annotation	documentation Set of procedure steps associated with this profile.

element **anpProfile/profilePoints**

diagram	 <p>Set of points associated with this profile.</p> <p>1..∞</p>
type	<b>anpProfilePoints</b>
properties	content complex
children	<b>point</b>
annotation	documentation Set of points associated with this profile.

complexType **anpProfilePoint**

diagram	<p><b>pointNum</b> Point index number. Must be sequential and unique, starting at 1.</p> <p><b>distance</b> Distance along the ground relative to start (min = ?9999999.9, max = 9999999.9, feet).</p> <p><b>altitude</b> Altitude of aircraft (min = -9999, max = 60000, feet).</p> <p><b>speed</b> Ground speed at this point (min = 0, max = 600, knots).</p> <p><b>thrustSet</b> Corrected net thrust per engine at this point (min = 0.1, max = 99999, lbs or % max thrust).</p> <p><b>opMode</b> Operational mode. Valid values: A (Approach), D (Departure), X (Overflight).</p>
children	<a href="#">pointNum</a> <a href="#">distance</a> <a href="#">altitude</a> <a href="#">speed</a> <a href="#">thrustSet</a> <a href="#">opMode</a>
used by	element <a href="#">anpProfilePoints/point</a>
annotation	documentation A single profile point data element.

element **anpProfilePoint/pointNum**

diagram	<p><b>pointNum</b> Point index number. Must be sequential and unique, starting at 1.</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Point index number. Must be sequential and unique, starting at 1.


element **anpProfilePoint/distance**

diagram	<p><b>distance</b> Distance along the ground relative to start (min = ?9999999.9, max = 9999999.9, feet).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Distance along the ground relative to start (min = ?9999999.9, max = 9999999.9, feet).


element **anpProfilePoint/altitude**

diagram	<p><b>altitude</b> Altitude of aircraft (min = -9999, max = 60000, feet).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Altitude of aircraft (min = -9999, max = 60000, feet).

element **anpProfilePoint/speed**

diagram	 <p>Ground speed at this point (min = 0, max = 600, knots).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Ground speed at this point (min = 0, max = 600, knots).

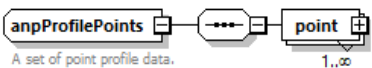
element **anpProfilePoint/thrustSet**

diagram	 <p>Corrected net thrust per engine at this point (min = 0.1, max = 99999, lbs or % max thrust).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Corrected net thrust per engine at this point (min = 0.1, max = 99999, lbs or % max thrust).

element **anpProfilePoint/opMode**

diagram	 <p>Operational mode. Valid values: A (Approach), D (Departure), X (Overflight).</p>
type	<b>string1</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Operational mode. Valid values: A (Approach), D (Departure), X (Overflight).

complexType **anpProfilePoints**

diagram	 <p>A set of point profile data.</p>
children	<b>point</b>
used by	element <b>anpProfile/profilePoints</b>
annotation	documentation A set of point profile data.

element **anpProfilePoints/point**

diagram	
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type	<b>anpProfilePoint</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>pointNum distance altitude speed thrustSet opMode</b>

complexType **anpProfileSet**

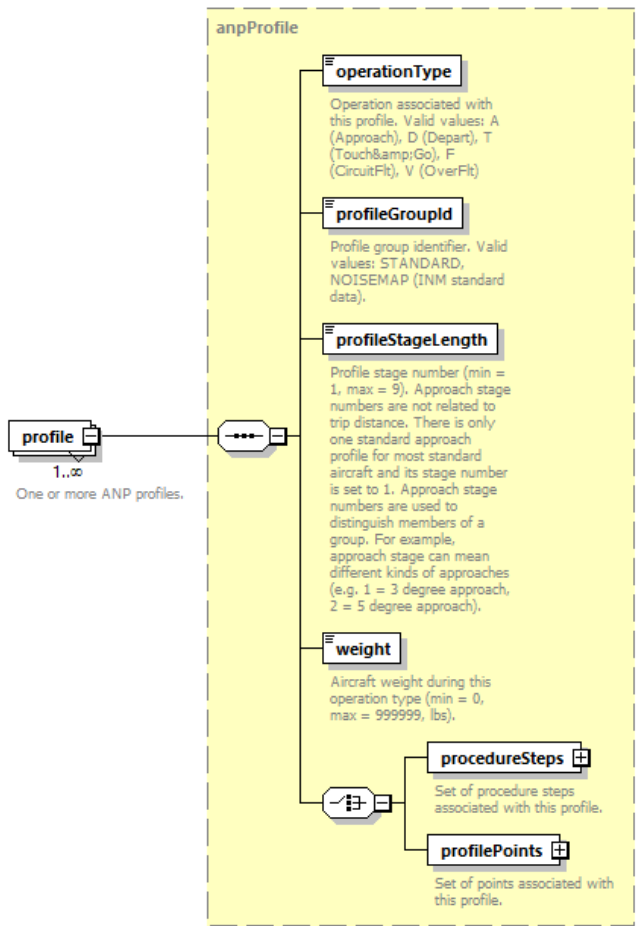
diagram	
children	<b>anpAirplaneId profile</b>
used by	element <b>fleet/anpProfileSet</b>
annotation	documentation A profile set for an ANP airplane.

element **anpProfileSet/anpAirplaneId**

diagram	
type	<b>anpAirplaneId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airplane's ANP ID.

element **anpProfileSet/profile**

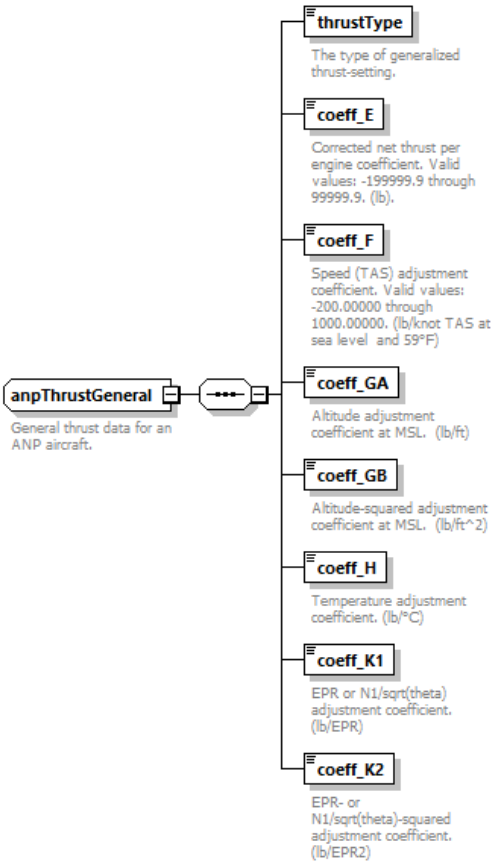
diagram	
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type	<b>anpProfile</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>operationType profileGroupld profileStageLength weight procedureSteps profilePoints</b>
annotation	documentation One or more ANP profiles.

complexType	<b>anpThrustGeneral</b>
diagram	

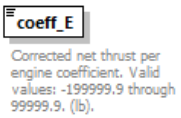


	 <p>The diagram shows the structure of the <b>anpThrustGeneral</b> element. It is a container element (indicated by a double-line border) that contains several child elements. The child elements are: <b>thrustType</b>, <b>coeff_E</b>, <b>coeff_F</b>, <b>coeff_GA</b>, <b>coeff_GB</b>, <b>coeff_H</b>, <b>coeff_K1</b>, and <b>coeff_K2</b>. Each child element is represented by a box with a small icon and a description. The descriptions are: <b>thrustType</b>: The type of generalized thrust-setting. <b>coeff_E</b>: Corrected net thrust per engine coefficient. Valid values: -199999.9 through 99999.9. (lb). <b>coeff_F</b>: Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F) <b>coeff_GA</b>: Altitude adjustment coefficient at MSL. (lb/ft) <b>coeff_GB</b>: Altitude-squared adjustment coefficient at MSL. (lb/ft^2) <b>coeff_H</b>: Temperature adjustment coefficient. (lb/°C) <b>coeff_K1</b>: EPR or N1/sqrt(theta) adjustment coefficient. (lb/EPR) <b>coeff_K2</b>: EPR- or N1/sqrt(theta)-squared adjustment coefficient. (lb/EPR2)</p>
children	<a href="#">thrustType</a> <a href="#">coeff_E</a> <a href="#">coeff_F</a> <a href="#">coeff_GA</a> <a href="#">coeff_GB</a> <a href="#">coeff_H</a> <a href="#">coeff_K1</a> <a href="#">coeff_K2</a>
used by	element <a href="#">anpThrustSet/thrustGeneral</a>
annotation	documentation General thrust data for an ANP aircraft.

#### element **anpThrustGeneral/thrustType**


diagram	 <p>The diagram shows the <b>thrustType</b> element, which is a simple content element (indicated by a single-line border). Its description is: The type of generalized thrust-setting.</p>
type	<a href="#">string1</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation The type of generalized thrust-setting.

#### element **anpThrustGeneral/coeff\_E**

diagram	 <p>The diagram shows the <b>coeff_E</b> element, which is a simple content element (indicated by a single-line border). Its description is: Corrected net thrust per engine coefficient. Valid values: -199999.9 through 99999.9. (lb).</p>
type	<a href="#">xs:double</a>
properties	content simple
annotation	documentation Corrected net thrust per engine coefficient. Valid values: -199999.9 through 99999.9. (lb).

#### element **anpThrustGeneral/coeff\_F**

diagram	
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	 <p>Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)


element **anpThrustGeneral/coeff\_GA**

diagram	 <p>Altitude adjustment coefficient at MSL. (lb/ft)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Altitude adjustment coefficient at MSL. (lb/ft)


element **anpThrustGeneral/coeff\_GB**

diagram	 <p>Altitude-squared adjustment coefficient at MSL. (lb/ft^2)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Altitude-squared adjustment coefficient at MSL. (lb/ft^2)


element **anpThrustGeneral/coeff\_H**

diagram	 <p>Temperature adjustment coefficient. (lb/°C)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Temperature adjustment coefficient. (lb/°C)

element **anpThrustGeneral/coeff\_K1**

diagram	 <p>EPR or <math>N1/\sqrt{\theta}</math> adjustment coefficient. (lb/EPR)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation EPR or $N1/\sqrt{\theta}$ adjustment coefficient. (lb/EPR)

element **anpThrustGeneral/coeff\_K2**

diagram	 <p>EPR- or <math>N1/\sqrt{\theta}</math>-squared adjustment coefficient. (lb/EPR<sup>2</sup>)</p>
type	<b>xs:double</b>
properties	content simple

annotation	documentation EPR- or $N1/\sqrt{\theta}$ -squared adjustment coefficient. (lb/EPR2)
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complexType **anpThrustJet**

diagram	<p><b>anpThrustJet</b> Jet thrust data for an ANP aircraft.</p> <p><b>thrustType</b> Type of thrust. Primary key UNITS: T = Max Takeoff, S = High Temp Takeoff, C = Max Climb, B = High Temp Climb, N = Max Continuous, M = High Temp Continuous</p> <p><b>coeff_E</b> Corrected net thrust per engine coefficient. Valid values: 0.0 through 500000.0. (lb)</p> <p><b>coeff_F</b> Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)</p> <p><b>coeff_GA</b> Altitude adjustment coefficient at MSL. (lb/ft)</p> <p><b>coeff_GB</b> Altitude-squared adjustment coefficient at MSL. (lb/ft<sup>2</sup>)</p> <p><b>coeff_H</b> Temperature adjustment coefficient. (lb/°C)</p>
children	<a href="#">thrustType</a> <a href="#">coeff_E</a> <a href="#">coeff_F</a> <a href="#">coeff_GA</a> <a href="#">coeff_GB</a> <a href="#">coeff_H</a>
used by	element <a href="#">anpThrustSet/thrustJet</a>
annotation	documentation Jet thrust data for an ANP aircraft.

element **anpThrustJet/thrustType**

diagram	<p><b>thrustType</b> Type of thrust. Primary key UNITS: T = Max Takeoff, S = High Temp Takeoff, C = Max Climb, B = High Temp Climb, N = Max Continuous, M = High Temp Continuous</p>
type	<a href="#">string1</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of thrust. Primary key UNITS: T = Max Takeoff, S = High Temp Takeoff, C = Max Climb, B = High Temp Climb, N = Max Continuous, M = High Temp Continuous

element **anpThrustJet/coeff\_E**

diagram	<p><b>coeff_E</b> Corrected net thrust per engine coefficient. Valid values: 0.0 through 500000.0. (lb)</p>
type	<a href="#">xs:double</a>
properties	content simple
annotation	documentation Corrected net thrust per engine coefficient. Valid values: 0.0 through 500000.0. (lb)

element **anpThrustJet/coeff\_F**

diagram	
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	<div style="border: 1px solid black; padding: 2px; width: fit-content;">coeff_F</div> <p>Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)

element **anpThrustJet/coeff\_GA**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">coeff_GA</div> <p>Altitude adjustment coefficient at MSL. (lb/ft)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Altitude adjustment coefficient at MSL. (lb/ft)

element **anpThrustJet/coeff\_GB**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">coeff_GB</div> <p>Altitude-squared adjustment coefficient at MSL. (lb/ft<sup>2</sup>)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Altitude-squared adjustment coefficient at MSL. (lb/ft <sup>2</sup> )

element **anpThrustJet/coeff\_H**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">coeff_H</div> <p>Temperature adjustment coefficient. (lb/°C)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Temperature adjustment coefficient. (lb/°C)

complexType **anpThrustProp**

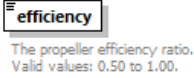
diagram	
children	<a href="#">thrustType</a> <a href="#">efficiency</a> <a href="#">power</a>
used by	element <a href="#">anpThrustSet/thrustProp</a>
annotation	documentation Prop thrust data for an ANP aircraft.

element **anpThrustProp/thrustType**


diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">thrustType</div> <p>Type of thrust.</p>
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type	<b>string1</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation Type of thrust.

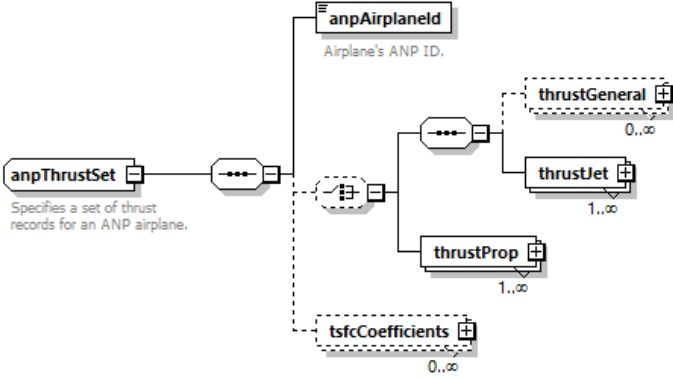
element **anpThrustProp/efficiency**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation The propeller efficiency ratio. Valid values: 0.50 to 1.00.

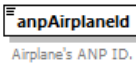
element **anpThrustProp/power**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Net propulsive power per engine (HP). Valid values: 0 to 9999.9.

complexType **anpThrustSet**

diagram	
children	<b>anpAirplaneId thrustGeneral thrustJet thrustProp tsfcCoefficients</b>
used by	element <b>fleet/anpThrustSet</b>
annotation	documentation Specifies a set of thrust records for an ANP airplane.

element **anpThrustSet/anpAirplaneId**

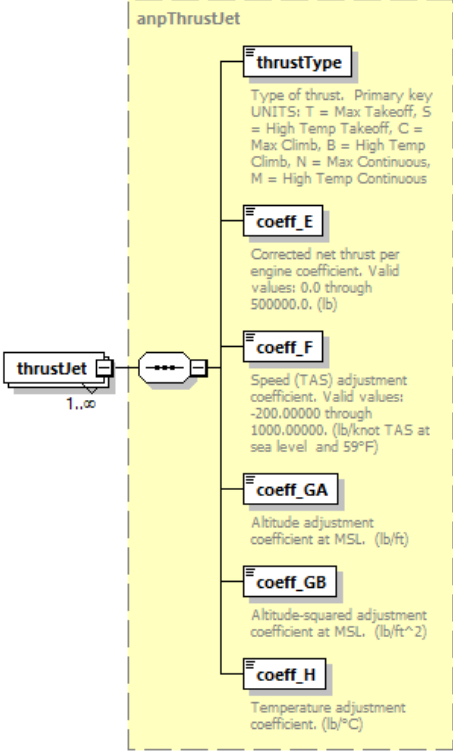
diagram	
type	<b>anpAirplaneId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airplane's ANP ID.

element **anpThrustSet/thrustGeneral**

<p>diagram</p>	<p><b>thrustGeneral</b> 0..∞</p> <p><b>anpThrustGeneral</b></p> <ul style="list-style-type: none"> <li><b>thrustType</b> The type of generalized thrust-setting.</li> <li><b>coeff_E</b> Corrected net thrust per engine coefficient. Valid values: -199999.9 through 99999.9. (lb).</li> <li><b>coeff_F</b> Speed (TAS) adjustment coefficient. Valid values: -200.00000 through 1000.00000. (lb/knot TAS at sea level and 59°F)</li> <li><b>coeff_GA</b> Altitude adjustment coefficient at MSL. (lb/ft)</li> <li><b>coeff_GB</b> Altitude-squared adjustment coefficient at MSL. (lb/ft<sup>2</sup>)</li> <li><b>coeff_H</b> Temperature adjustment coefficient. (lb/°C)</li> <li><b>coeff_K1</b> EPR or N1/sqrt(theta) adjustment coefficient. (lb/EPR)</li> <li><b>coeff_K2</b> EPR- or N1/sqrt(theta)-squared adjustment coefficient. (lb/EPR<sup>2</sup>)</li> </ul>
<p>type</p>	<p><b>anpThrustGeneral</b></p>
<p>properties</p>	<p>minOcc 0 maxOcc unbounded content complex</p>
<p>children</p>	<p><b>thrustType</b> <b>coeff_E</b> <b>coeff_F</b> <b>coeff_GA</b> <b>coeff_GB</b> <b>coeff_H</b> <b>coeff_K1</b> <b>coeff_K2</b></p>

element **anpThrustSet/thrustJet**

<p>diagram</p>	Empty diagram area
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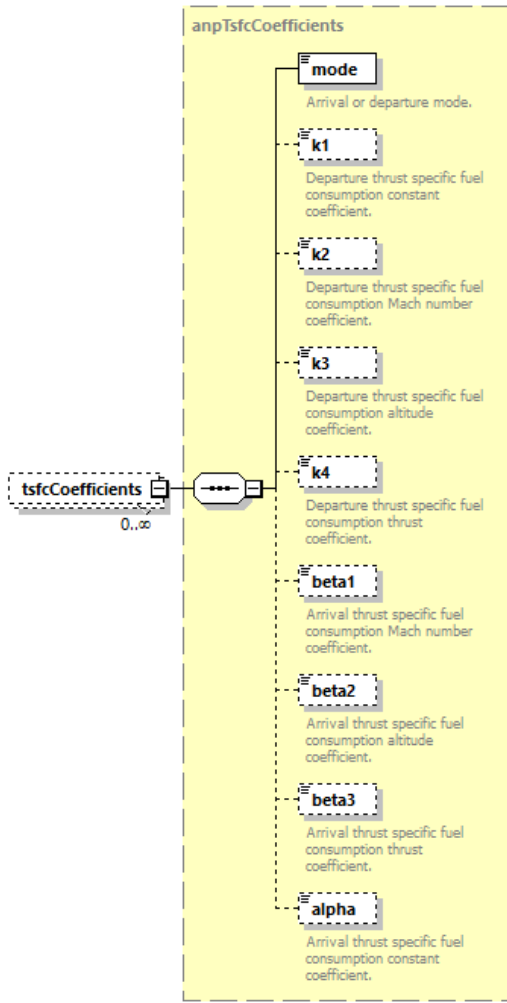
	
type	<b><u>anpThrustJet</u></b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b><u>thrustType</u></b> <b><u>coeff_E</u></b> <b><u>coeff_F</u></b> <b><u>coeff_GA</u></b> <b><u>coeff_GB</u></b> <b><u>coeff_H</u></b>

element **anpThrustSet/thrustProp**

diagram	
type	<b><u>anpThrustProp</u></b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b><u>thrustType</u></b> <b><u>efficiency</u></b> <b><u>power</u></b>

element **anpThrustSet/tsfcCoefficients**

diagram	
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type	<a href="#">anpTsfCoefficients</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">mode</a> <a href="#">k1</a> <a href="#">k2</a> <a href="#">k3</a> <a href="#">k4</a> <a href="#">beta1</a> <a href="#">beta2</a> <a href="#">beta3</a> <a href="#">alpha</a>

complexType **anpTsfCoefficients**

diagram	
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	<p><b>mode</b> Arrival or departure mode.</p> <p><b>k1</b> Departure thrust specific fuel consumption constant coefficient.</p> <p><b>k2</b> Departure thrust specific fuel consumption Mach number coefficient.</p> <p><b>k3</b> Departure thrust specific fuel consumption altitude coefficient.</p> <p><b>k4</b> Departure thrust specific fuel consumption thrust coefficient.</p> <p><b>beta1</b> Arrival thrust specific fuel consumption Mach number coefficient.</p> <p><b>beta2</b> Arrival thrust specific fuel consumption altitude coefficient.</p> <p><b>beta3</b> Arrival thrust specific fuel consumption thrust coefficient.</p> <p><b>alpha</b> Arrival thrust specific fuel consumption constant coefficient.</p>
children	<a href="#">mode</a> <a href="#">k1</a> <a href="#">k2</a> <a href="#">k3</a> <a href="#">k4</a> <a href="#">beta1</a> <a href="#">beta2</a> <a href="#">beta3</a> <a href="#">alpha</a>
used by	element <a href="#">anpThrustSet/tsfcCoefficients</a>
annotation	documentation TSFC coefficient data for an ANP aircraft.


#### element [anpTsfcCoefficients/mode](#)

diagram										
type	<a href="#">string1</a>									
properties	content simple									
facets	<table border="0"> <tr> <td>Kind</td> <td>Value</td> <td>Annotation</td> </tr> <tr> <td>minLength</td> <td>0</td> <td></td> </tr> <tr> <td>maxLength</td> <td>1</td> <td></td> </tr> </table>	Kind	Value	Annotation	minLength	0		maxLength	1	
Kind	Value	Annotation								
minLength	0									
maxLength	1									
annotation	documentation Arrival or departure mode.									


#### element [anpTsfcCoefficients/k1](#)

diagram							
type	<a href="#">xs:double</a>						
properties	<table border="0"> <tr> <td>minOcc</td> <td>0</td> </tr> <tr> <td>maxOcc</td> <td>1</td> </tr> <tr> <td>content</td> <td>simple</td> </tr> </table>	minOcc	0	maxOcc	1	content	simple
minOcc	0						
maxOcc	1						
content	simple						
annotation	documentation Departure thrust specific fuel consumption constant coefficient.						


element **anpTsfcCoefficients/k2**

diagram	 <p>Departure thrust specific fuel consumption Mach number coefficient.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Departure thrust specific fuel consumption Mach number coefficient.

element **anpTsfcCoefficients/k3**

diagram	 <p>Departure thrust specific fuel consumption altitude coefficient.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Departure thrust specific fuel consumption altitude coefficient.


element **anpTsfcCoefficients/k4**

diagram	 <p>Departure thrust specific fuel consumption thrust coefficient.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Departure thrust specific fuel consumption thrust coefficient.

element **anpTsfcCoefficients/beta1**

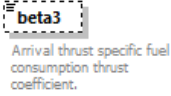
diagram	 <p>Arrival thrust specific fuel consumption Mach number coefficient.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Arrival thrust specific fuel consumption Mach number coefficient.

element **anpTsfcCoefficients/beta2**

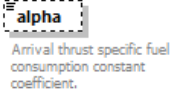
diagram	 <p>Arrival thrust specific fuel consumption altitude coefficient.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Arrival thrust specific fuel consumption altitude coefficient.

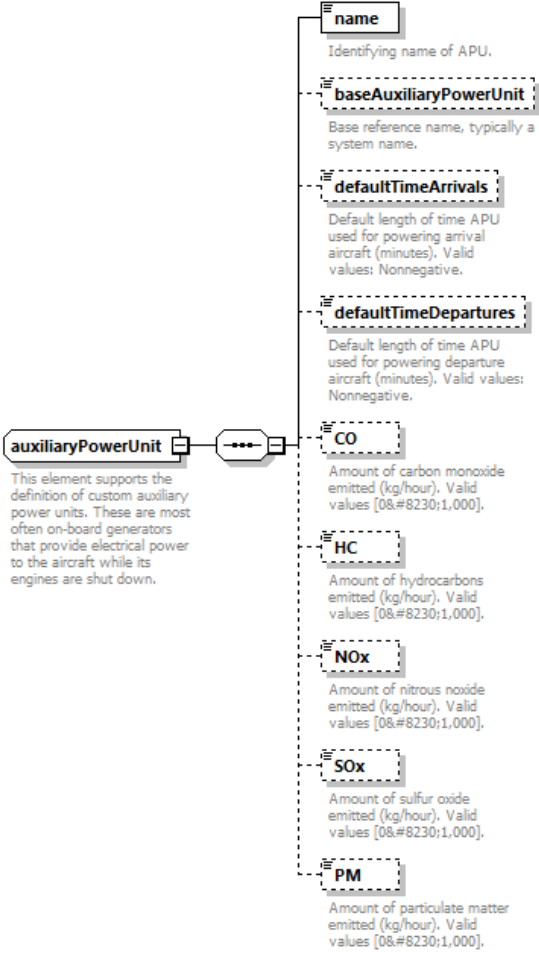
element **anpTsfcCoefficients/beta3**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Arrival thrust specific fuel consumption thrust coefficient.

element **anpTsfcCoefficients/alpha**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Arrival thrust specific fuel consumption constant coefficient.

complexType **auxiliaryPowerUnit**

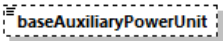
diagram	 <p>This element supports the definition of custom auxiliary power units. These are most often on-board generators that provide electrical power to the aircraft while its engines are shut down.</p> <ul style="list-style-type: none"> <li><b>name</b>: Identifying name of APU.</li> <li><b>baseAuxiliaryPowerUnit</b>: Base reference name, typically a system name.</li> <li><b>defaultTimeArrivals</b>: Default length of time APU used for powering arrival aircraft (minutes). Valid values: Nonnegative.</li> <li><b>defaultTimeDepartures</b>: Default length of time APU used for powering departure aircraft (minutes). Valid values: Nonnegative.</li> <li><b>CO</b>: Amount of carbon monoxide emitted (kg/hour). Valid values [0;8230;1,000].</li> <li><b>HC</b>: Amount of hydrocarbons emitted (kg/hour). Valid values [0;8230;1,000].</li> <li><b>NOx</b>: Amount of nitrous oxide emitted (kg/hour). Valid values [0;8230;1,000].</li> <li><b>SOx</b>: Amount of sulfur oxide emitted (kg/hour). Valid values [0;8230;1,000].</li> <li><b>PM</b>: Amount of particulate matter emitted (kg/hour). Valid values [0;8230;1,000].</li> </ul>
children	<b>name baseAuxiliaryPowerUnit defaultTimeArrivals defaultTimeDepartures CO HC NOx SOx PM</b>
used by	element <b>fleet/auxiliaryPowerUnit</b>

annotation	documentation This element supports the definition of custom auxiliary power units. These are most often on-board generators that provide electrical power to the aircraft while its engines are shut down.
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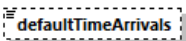
element **auxiliaryPowerUnit/name**

diagram	 Identifying name of APU.
type	<a href="#">apuName</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 30
annotation	documentation Identifying name of APU.

element **auxiliaryPowerUnit/baseAuxiliaryPowerUnit**

diagram	 Base reference name, typically a system name.
type	<a href="#">apuName</a>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 30
annotation	documentation Base reference name, typically a system name.

element **auxiliaryPowerUnit/defaultTimeArrivals**


diagram	 Default length of time APU used for powering arrival aircraft (minutes). Valid values: Nonnegative.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Default length of time APU used for powering arrival aircraft (minutes). Valid values: Nonnegative.

element **auxiliaryPowerUnit/defaultTimeDepartures**


diagram	 Default length of time APU used for powering departure aircraft (minutes). Valid values: Nonnegative.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Default length of time APU used for powering departure aircraft (minutes). Valid values: Nonnegative.

element **auxiliaryPowerUnit/CO**


diagram	
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diagram	 <p>Amount of carbon monoxide emitted (kg/hour). Valid values [0&amp;#8230;1,000].</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of carbon monoxide emitted (kg/hour). Valid values [0&#8230;1,000].


element **auxiliaryPowerUnit/HC**

diagram	 <p>Amount of hydrocarbons emitted (kg/hour). Valid values [0&amp;#8230;1,000].</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of hydrocarbons emitted (kg/hour). Valid values [0&#8230;1,000].


element **auxiliaryPowerUnit/NOx**

diagram	 <p>Amount of nitrous oxide emitted (kg/hour). Valid values [0&amp;#8230;1,000].</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of nitrous oxide emitted (kg/hour). Valid values [0&#8230;1,000].

element **auxiliaryPowerUnit/SOx**

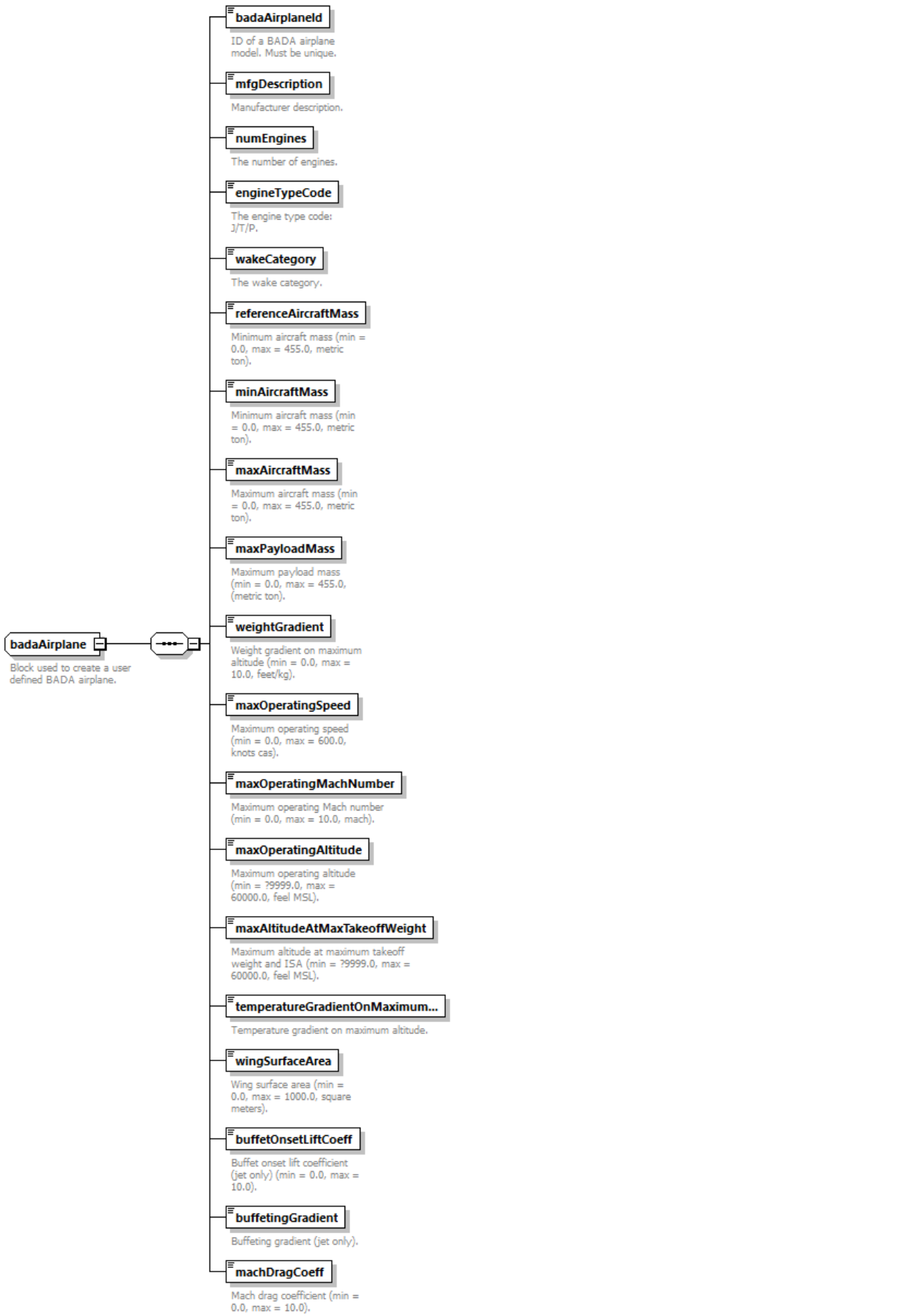
diagram	 <p>Amount of sulfur oxide emitted (kg/hour). Valid values [0&amp;#8230;1,000].</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of sulfur oxide emitted (kg/hour). Valid values [0&#8230;1,000].

element **auxiliaryPowerUnit/PM**

diagram	 <p>Amount of particulate matter emitted (kg/hour). Valid values [0&amp;#8230;1,000].</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of particulate matter emitted (kg/hour). Valid values [0&#8230;1,000].

complexType **badaAirplane**

diagram



children

**badaAirplaneId mfgDescription numEngines engineTypeCode wakeCategory referenceAircraftMass minAircraftMass maxAircraftMass maxPayloadMass weightGradient**

	<a href="#">maxOperatingSpeed</a> <a href="#">maxOperatingMachNumber</a> <a href="#">maxOperatingAltitude</a> <a href="#">maxAltitudeAtMaxTakeoffWeight</a> <a href="#">temperatureGradientOnMaximumAltitude</a> <a href="#">wingSurfaceArea</a> <a href="#">buffetOnsetLiftCoeff</a> <a href="#">buffetingGradient</a> <a href="#">machDragCoeff</a>
used by	element <a href="#">fleet/badaAirplane</a>
annotation	documentation Block used to create a user defined BADA airplane.

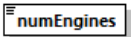
#### element [badaAirplane/badaAirplaneId](#)

diagram	 ID of a BADA airplane model. Must be unique.
type	<a href="#">badaAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of a BADA airplane model. Must be unique.


#### element [badaAirplane/mfgDescription](#)

diagram	 Manufacturer description.
type	<a href="#">string255</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Manufacturer description.

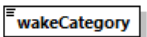
#### element [badaAirplane/numEngines](#)

diagram	 The number of engines.
type	<a href="#">xs:int</a>
properties	content simple
annotation	documentation The number of engines.

#### element [badaAirplane/engineTypeCode](#)


diagram	 The engine type code: J/T/P.
type	<a href="#">engineType</a>
properties	content simple
facets	Kind Value Annotation pattern Jet J Turbo Turboprop T Prop Piston P
annotation	documentation The engine type code: J/T/P.

#### element [badaAirplane/wakeCategory](#)


diagram	 The wake category.
type	<a href="#">badaWakeType</a>
properties	content simple

facets	Kind Value pattern Heavy H Light L Medium M SuperHeavy I	Annotation
annotation	documentation The wake category.	


element **badaAirplane/referenceAircraftMass**

diagram	 <b>referenceAircraftMass</b> Minimum aircraft mass (min = 0.0, max = 455.0, metric ton).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Minimum aircraft mass (min = 0.0, max = 455.0, metric ton).

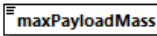
element **badaAirplane/minAircraftMass**

diagram	 <b>minAircraftMass</b> Minimum aircraft mass (min = 0.0, max = 455.0, metric ton).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Minimum aircraft mass (min = 0.0, max = 455.0, metric ton).

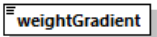
element **badaAirplane/maxAircraftMass**

diagram	 <b>maxAircraftMass</b> Maximum aircraft mass (min = 0.0, max = 455.0, metric ton).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum aircraft mass (min = 0.0, max = 455.0, metric ton).

element **badaAirplane/maxPayloadMass**

diagram	 <b>maxPayloadMass</b> Maximum payload mass (min = 0.0, max = 455.0, metric ton).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum payload mass (min = 0.0, max = 455.0, metric ton).

element **badaAirplane/weightGradient**

diagram	 <b>weightGradient</b> Weight gradient on maximum altitude (min = 0.0, max = 10.0, feet/kg).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Weight gradient on maximum altitude (min = 0.0, max = 10.0, feet/kg).

element **badaAirplane/maxOperatingSpeed**

diagram	
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	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>maxOperatingSpeed</b></div> Maximum operating speed (min = 0.0, max = 600.0, knots cas).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum operating speed (min = 0.0, max = 600.0, knots cas).

element **badaAirplane/maxOperatingMachNumber**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>maxOperatingMachNumber</b></div> Maximum operating Mach number (min = 0.0, max = 10.0, mach).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum operating Mach number (min = 0.0, max = 10.0, mach).

element **badaAirplane/maxOperatingAltitude**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>maxOperatingAltitude</b></div> Maximum operating altitude (min = ?9999.0, max = 60000.0, feel MSL).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum operating altitude (min = ?9999.0, max = 60000.0, feel MSL).

element **badaAirplane/maxAltitudeAtMaxTakeoffWeight**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>maxAltitudeAtMaxTakeoffWeight</b></div> Maximum altitude at maximum takeoff weight and ISA (min = ?9999.0, max = 60000.0, feel MSL).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Maximum altitude at maximum takeoff weight and ISA (min = ?9999.0, max = 60000.0, feel MSL).

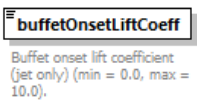
element **badaAirplane/temperatureGradientOnMaximumAltitude**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>temperatureGradientOnMaximum...</b></div> Temperature gradient on maximum altitude.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Temperature gradient on maximum altitude.

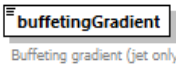
element **badaAirplane/wingSurfaceArea**

diagram	<div style="border: 1px solid black; padding: 2px; display: inline-block;"><b>wingSurfaceArea</b></div> Wing surface area (min = 0.0, max = 1000.0, square meters).
type	<b>xs:double</b>
properties	content simple
annotation	documentation Wing surface area (min = 0.0, max = 1000.0, square meters).


element **badaAirplane/buffetOnsetLiftCoeff**

diagram	 <p>buffetOnsetLiftCoeff Buffet onset lift coefficient (jet only) (min = 0.0, max = 10.0).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Buffet onset lift coefficient (jet only) (min = 0.0, max = 10.0).

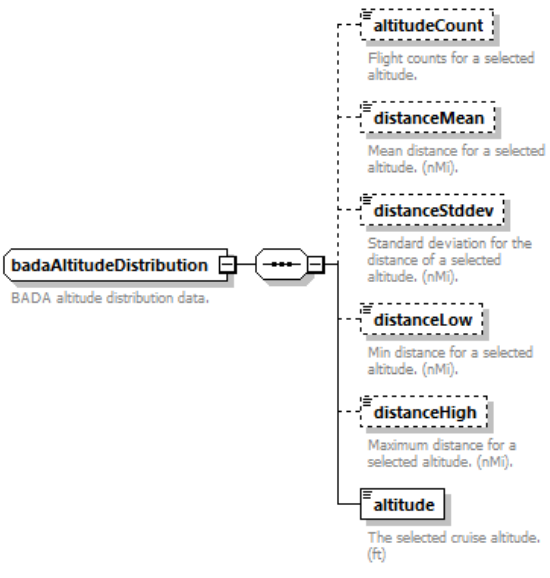
element **badaAirplane/buffetingGradient**

diagram	 <p>buffetingGradient Buffeting gradient (jet only).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Buffeting gradient (jet only).


element **badaAirplane/machDragCoeff**

diagram	 <p>machDragCoeff Mach drag coefficient (min = 0.0, max = 10.0).</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Mach drag coefficient (min = 0.0, max = 10.0).

complexType **badaAltitudeDistribution**

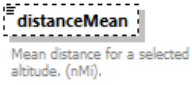
diagram	 <p><b>badaAltitudeDistribution</b> BADA altitude distribution data.</p> <p>altitudeCount Flight counts for a selected altitude.</p> <p>distanceMean Mean distance for a selected altitude. (nMi).</p> <p>distanceStddev Standard deviation for the distance of a selected altitude. (nMi).</p> <p>distanceLow Min distance for a selected altitude. (nMi).</p> <p>distanceHigh Maximum distance for a selected altitude. (nMi).</p> <p>altitude The selected cruise altitude. (ft)</p>
children	<a href="#">altitudeCount</a> <a href="#">distanceMean</a> <a href="#">distanceStddev</a> <a href="#">distanceLow</a> <a href="#">distanceHigh</a> <a href="#">altitude</a>
used by	element <a href="#">badaAltitudeDistributionSet/altitudeDistribution</a>
annotation	documentation BADA altitude distribution data.

element **badaAltitudeDistribution/altitudeCount**

diagram	 <p>altitudeCount Flight counts for a selected altitude.</p>
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type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Flight counts for a selected altitude.


element **badaAltitudeDistribution/distanceMean**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Mean distance for a selected altitude. (nMi).


element **badaAltitudeDistribution/distanceStddev**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Standard deviation for the distance of a selected altitude. (nMi).

element **badaAltitudeDistribution/distanceLow**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Min distance for a selected altitude. (nMi).

element **badaAltitudeDistribution/distanceHigh**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Maximum distance for a selected altitude. (nMi).

element **badaAltitudeDistribution/altitude**

diagram	
type	<b>xs:int</b>

properties	content simple
annotation	documentation The selected cruise altitude. (ft)

complexType **badaAltitudeDistributionSet**

diagram	
children	<a href="#">badaAirplaneId</a> <a href="#">altitudeDistribution</a>
used by	elements <a href="#">fleet/badaAltitudeDistributionSet</a> <a href="#">fleet/badaDefaultAltitudeDistributionSet</a>
annotation	documentation A block for defining a BADA altitude distribution set.

element **badaAltitudeDistributionSet/badaAirplaneId**

diagram	
type	<a href="#">badaAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airplane's BADA ID.

element **badaAltitudeDistributionSet/altitudeDistribution**

diagram	
type	<a href="#">badaAltitudeDistribution</a>
properties	minOcc 1 maxOcc unbounded content complex
children	<a href="#">altitudeCount</a> <a href="#">distanceMean</a> <a href="#">distanceStddev</a> <a href="#">distanceLow</a> <a href="#">distanceHigh</a> <a href="#">altitude</a>

complexType **badaConfig**

diagram	
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children	<b><a href="#">phase</a></b> <b><a href="#">configName</a></b> <b><a href="#">stallSpeed</a></b> <b><a href="#">parasiticDrag</a></b> <b><a href="#">inducedDrag</a></b>
used by	element <b><a href="#">badaConfigSet/badaConfig</a></b>
annotation	documentation BADA Configuration Coefficient data.

#### element **badaConfig/phase**

diagram	
type	<b><a href="#">badaPhaseType</a></b>
properties	content simple
facets	Kind Value Annotation pattern InitialClimb C Takeoff TO Approach AP Landing LD Cruise CR
annotation	documentation .The phase of flight (IC=initial climb, TO=take-off, AP=approach, LD=landing).

#### element **badaConfig/configName**

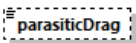
diagram	
type	<b><a href="#">string10</a></b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 10
annotation	documentation The configuration identifier.

#### element **badaConfig/stallSpeed**


diagram	
type	<b><a href="#">xs:double</a></b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation

Stall speed, CAS. Valid values: 0.0 through 600.0. (kts)

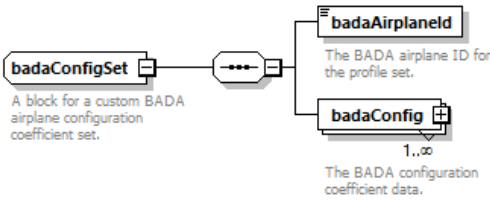
element **badaConfig/parasiticDrag**

diagram	 <p>The parasitic drag coefficient. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The parasitic drag coefficient. Valid values: 0.0 through 10.0.


element **badaConfig/inducedDrag**

diagram	 <p>The induced drag coefficient. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation The induced drag coefficient. Valid values: 0.0 through 10.0.

complexType **badaConfigSet**

diagram	 <p>A block for a custom BADA airplane configuration coefficient set.</p> <p>The BADA airplane ID for the profile set.</p> <p>The BADA configuration coefficient data.</p> <p>1..∞</p>
children	<a href="#">badaAirplaneId</a> <a href="#">badaConfig</a>
used by	element <a href="#">fleet/badaConfigSet</a>
annotation	documentation A block for a custom BADA airplane configuration coefficient set.

element **badaConfigSet/badaAirplaneId**

diagram	 <p>The BADA airplane ID for the profile set.</p>
type	<b>badaAirplaneId</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The BADA airplane ID for the profile set.

element **badaConfigSet/badaConfig**

diagram	
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type	<b>badaConfig</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b>phase configName stallSpeed parasiticDrag inducedDrag</b>
annotation	documentation The BADA configuration coefficient data.

complexType **badaFuel**


diagram	
children	<b>badaAirplaneId coeff CF1 coeff CF2 coeff CF3 coeff CF4 coeff CR</b>
used by	element <b>fleet/badaFuel</b>
annotation	documentation A BADA Fuel data record.

element **badaFuel/badaAirplaneId**


diagram	
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type	<a href="#">badaAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The BADA aircraft ID


element **badaFuel/coeff\_CF1**

diagram	 <p>1st thrust specific fuel consumption coefficient. Valid values: 0.0 through 10.0. Variable units. (kg/(min*kN) (jet); kg/(min*kN*knot); (turbo-prop); kg/min (piston))</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 1st thrust specific fuel consumption coefficient. Valid values: 0.0 through 10.0. Variable units. (kg/(min*kN) (jet); kg/(min*kN*knot); (turbo-prop); kg/min (piston))

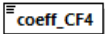
element **badaFuel/coeff\_CF2**

diagram	 <p>2nd thrust specific fuel consumption coefficient. Valid values: 0.0 through 1. (kts)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 2nd thrust specific fuel consumption coefficient. Valid values: 0.0 through 1. (kts)

element **badaFuel/coeff\_CF3**

diagram	 <p>1st descent fuel flow coefficient. Min= Valid values: 0.0 through 100.0.(kg/min)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 1st descent fuel flow coefficient. Min= Valid values: 0.0 through 100.0.(kg/min)

element **badaFuel/coeff\_CF4**

diagram	 <p>2nd descent fuel flow coefficient. Valid values: 0.0 through 1. (ft)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 2nd descent fuel flow coefficient. Valid values: 0.0 through 1. (ft)

element **badaFuel/coeff\_CR**

diagram	 <p>Cruise fuel flow correction coefficient. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>



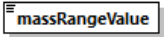
properties	content simple
annotation	documentation Cruise fuel flow correction coefficient. Valid values: 0.0 through 10.0.

complexType **badaProfile**

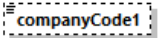
diagram	<p><b>badaProfile</b> A BADA profile APF (airline procedures file) record.</p> <ul style="list-style-type: none"> <li><b>massRangeValue</b> Mass range. Valid values: LO (low range), AV (average range), HI (high range).</li> <li><b>companyCode1</b> Three-letter company code.</li> <li><b>companyCode2</b> Two-letter company code.</li> <li><b>companyName</b> Name of airline that uses this procedure.</li> <li><b>aircraftVersion</b> Aircraft version to which this procedure applies.</li> <li><b>engine</b> Engine identifier.</li> <li><b>climbSpeedBelowTransitionAltitude</b> Standard climb speed (CAS) between 1,500/6,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts).</li> <li><b>climbSpeedAboveTransitionAltitude</b> Standard climb speed (CAS) between 10,000 feet and Mach transition altitude. Valid values: 0.0 through 600.0. (kts).</li> <li><b>climbMachNumber</b> Standard climb Mach number above Mach transition altitude. Valid values: 0.0 through 10.0.</li> <li><b>cruiseSpeedBelowTransitionAltitude</b> Standard cruise speed (CAS) between 3,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts).</li> <li><b>cruiseSpeedAboveTransitionAltitude</b> Standard cruise speed (CAS) above 10,000 feet until Mach transition altitude. Valid values: 0.0 through 600.0. (kts).</li> <li><b>cruiseMachNumber</b> Standard cruise Mach number above transition altitude. Valid values: 0.0 through 10.0.</li> <li><b>descentSpeedUnderTransitionAltitude</b> Standard descent speed (CAS) between 3,000/6,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts).</li> <li><b>descentSpeedOverTransitionAltitude</b> Standard descent speed (CAS) above 10,000 feet until Mach transition altitude. Valid values: 0.0 through 600.0. (kts).</li> <li><b>descentMachNumber</b> Standard descent Mach number above transition altitude. Valid values: 0.0 through 10.0.</li> </ul>
children	<a href="#">massRangeValue</a> <a href="#">companyCode1</a> <a href="#">companyCode2</a> <a href="#">companyName</a> <a href="#">aircraftVersion</a> <a href="#">engine</a> <a href="#">climbSpeedBelowTransitionAltitude</a> <a href="#">climbSpeedAboveTransitionAltitude</a> <a href="#">climbMachNumber</a> <a href="#">cruiseSpeedBelowTransitionAltitude</a> <a href="#">cruiseSpeedAboveTransitionAltitude</a> <a href="#">cruiseMachNumber</a> <a href="#">descentSpeedUnderTransitionAltitude</a> <a href="#">descentSpeedOverTransitionAltitude</a> <a href="#">descentMachNumber</a>
used by	element <a href="#">badaProfileSet/profile</a>
annotation	documentation

A BADA profile APF (airline procedures file) record.

#### element **badaProfile/massRangeValue**

diagram	 <p>Mass range. Valid values: LO (low range), AV (average range), HI (high range).</p>
type	<b>string2</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 2
annotation	documentation Mass range. Valid values: LO (low range), AV (average range), HI (high range).

#### element **badaProfile/companyCode1**

diagram	 <p>Three-letter company code.</p>
type	<b>string3</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 3
annotation	documentation Three-letter company code.

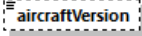
#### element **badaProfile/companyCode2**

diagram	 <p>Two-letter company code.</p>
type	<b>string2</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 2
annotation	documentation Two-letter company code.


#### element **badaProfile/companyName**

diagram	 <p>Name of airline that uses this procedure.</p>
type	<b>string15</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 15
annotation	documentation Name of airline that uses this procedure.

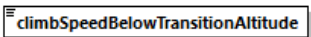
#### element **badaProfile/aircraftVersion**

diagram	 <b>aircraftVersion</b> Aircraft version to which this procedure applies.
type	<b>string12</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 12
annotation	documentation Aircraft version to which this procedure applies.

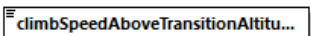
#### element **badaProfile/engine**

diagram	 <b>engine</b> Engine identifier.
type	<b>string12</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 12
annotation	documentation Engine identifier.

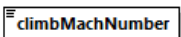
#### element **badaProfile/climbSpeedBelowTransitionAltitude**

diagram	 <b>climbSpeedBelowTransitionAltitude</b> Standard climb speed (CAS) between 1,500/6,000 and 10,000 feet. Valid values: 0.0, through 600.0. (kts).
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard climb speed (CAS) between 1,500/6,000 and 10,000 feet. Valid values: 0.0, through 600.0. (kts).

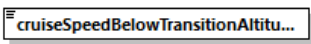
#### element **badaProfile/climbSpeedAboveTransitionAltitude**

diagram	 <b>climbSpeedAboveTransitionAltitu...</b> Standard climb speed (CAS) between 10,000 feet and Mach transition altitude. Valid values: 0.0 through 600.0. (kts)
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard climb speed (CAS) between 10,000 feet and Mach transition altitude. Valid values: 0.0 through 600.0. (kts)


#### element **badaProfile/climbMachNumber**

diagram	 <b>climbMachNumber</b> Standard climb Mach number above Mach transition altitude. Valid values: 0.0 through 10.0.
type	<b>xs:double</b>
properties	content simple
annotation	documentation Standard climb Mach number above Mach transition altitude. Valid values: 0.0 through 10.0.

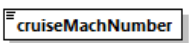
element **badaProfile/cruiseSpeedBelowTransitionAltitude**

diagram	 <p>Standard cruise speed (CAS) between 3,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts).</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard cruise speed (CAS) between 3,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts).

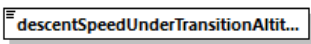
element **badaProfile/cruiseSpeedAboveTransitionAltitude**

diagram	 <p>Standard cruise speed (CAS) above 10,000 feet until Mach transition altitude. Valid values: 0.0 through 600.0. (kts).</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard cruise speed (CAS) above 10,000 feet until Mach transition altitude. Valid values: 0.0 through 600.0. (kts).

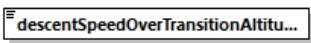
element **badaProfile/cruiseMachNumber**

diagram	 <p>Standard cruise Mach number above transition altitude. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Standard cruise Mach number above transition altitude. Valid values: 0.0 through 10.0.

element **badaProfile/descentSpeedUnderTransitionAltitude**

diagram	 <p>Standard descent speed (CAS) between 3,000/6,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts)</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard descent speed (CAS) between 3,000/6,000 and 10,000 feet. Valid values: 0.0 through 600.0. (kts)

element **badaProfile/descentSpeedOverTransitionAltitude**

diagram	 <p>Standard descent speed (CAS) above 10,000 feet until Mach transition Valid values: 0.0 through 600.0. (kts).</p>
type	<b>xs:short</b>
properties	content simple
annotation	documentation Standard descent speed (CAS) above 10,000 feet until Mach transition Valid values: 0.0 through 600.0. (kts).

element **badaProfile/descentMachNumber**

diagram	 <p>Standard descent Mach number above transition altitude. Valid values: 0.0 through 10.0.</p>

type	<b>xs:double</b>
properties	content simple
annotation	documentation Standard descent Mach number above transition altitude. Valid values: 0.0 through 10.0.

complexType **badaProfileSet**

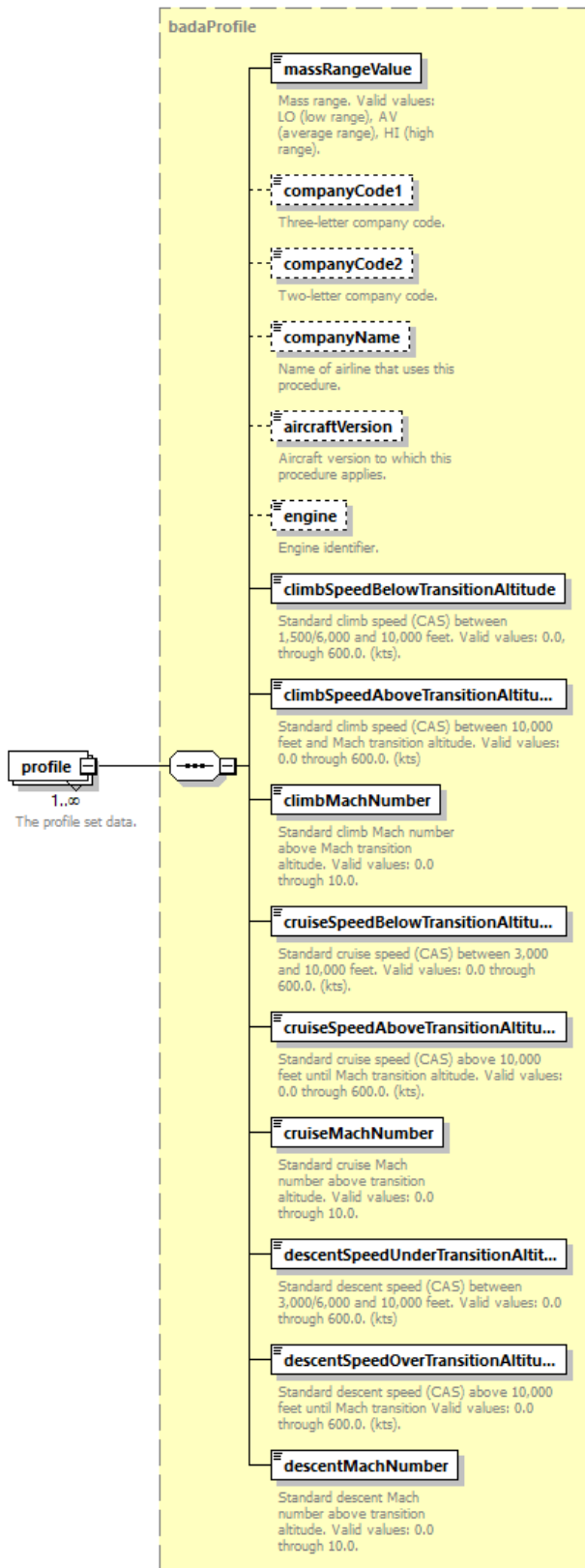
diagram	
children	<a href="#">badaAirplaneId</a> <a href="#">profile</a>
used by	element <a href="#">fleet/badaProfileSet</a>
annotation	documentation A block used to define a custom BADA profile set.

element **badaProfileSet/badaAirplaneId**

diagram	
type	<a href="#">badaAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The BADA airplane ID for the profile set.

element **badaProfileSet/profile**

diagram	
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type	<b>badaProfile</b>
properties	minOcc 1 maxOcc unbounded content complex
children	<b><u>massRangeValue</u></b> <b><u>companyCode1</u></b> <b><u>companyCode2</u></b> <b><u>companyName</u></b> <b><u>aircraftVersion</u></b> <b><u>engine</u></b> <b><u>climbSpeedBelowTransitionAltitude</u></b> <b><u>climbSpeedAboveTransitionAltitude</u></b> <b><u>climbMachNumber</u></b> <b><u>cruiseSpeedBelowTransitionAltitude</u></b> <b><u>cruiseSpeedAboveTransitionAltitude</u></b> <b><u>cruiseMachNumber</u></b> <b><u>descentSpeedUnderTransitionAltitude</u></b> <b><u>descentSpeedOverTransitionAltitude</u></b> <b><u>descentMachNumber</u></b>
annotation	documentation The profile set data.

complexType **badaThrust**


<p>diagram</p>	<p><b>badaThrust</b> A custom BADA thrust data record.</p> <ul style="list-style-type: none"> <li><b>badaAirplaneId</b> The BADA airplane ID.</li> <li><b>coeff_TC1</b> 1st max climb thrust coefficient. Valid values: 0.0 through 1.</li> <li><b>coeff_TC2</b> 2nd max climb thrust coefficient. Valid values: 0.0 through 1e9. (ft)</li> <li><b>coeff_TC3</b> 3rd max climb thrust coefficient. Valid values: -1034000 to 665880. Variable units. (1/feet<sup>2</sup> (jet); Newton (turboprop); knot-Newton (piston))</li> <li><b>coeff_TC4</b> 1st thrust temperature coefficient. Valid values: -45 through 50. (K)</li> <li><b>coeff_TC5</b> 2nd thrust temperature coefficient. Valid values: 0.0 through 10.0. (1/K)</li> <li><b>coeff_TDL</b> Low altitude descent thrust coefficient. Valid values: 0.0 through 10.0</li> <li><b>coeff_TDH</b> High altitude descent thrust coefficient. Valid values: 0.0 through 10.0</li> <li><b>coeff_APP</b> Approach thrust coefficient. Valid values: 0.0 through 10.0.</li> <li><b>coeff_LD</b> Landing thrust coefficient. Valid values: 0.0 through 10.0.</li> <li><b>descentAlt</b> Transition altitude above MSL for calculation of descent thrust. Valid values: -9999.0 through 60000.0. (ft)</li> <li><b>descentSpeed</b> Reference descent speed. Valid values: 0.0 through 600.0. (kts)</li> <li><b>descentMach</b> Reference descent Mach number. Valid values: 0.0 through 10.0.</li> <li><b>notes</b> User notes.</li> </ul>
<p>children</p>	<p><a href="#">badaAirplaneId</a> <a href="#">coeff_TC1</a> <a href="#">coeff_TC2</a> <a href="#">coeff_TC3</a> <a href="#">coeff_TC4</a> <a href="#">coeff_TC5</a> <a href="#">coeff_TDL</a> <a href="#">coeff_TDH</a> <a href="#">coeff_APP</a> <a href="#">coeff_LD</a> <a href="#">descentAlt</a> <a href="#">descentSpeed</a> <a href="#">descentMach</a> <a href="#">notes</a></p>
<p>used by</p>	<p>element <a href="#">fleet/badaThrust</a></p>
<p>annotation</p>	<p>documentation A custom BADA thrust data record.</p>

element **badaThrust/badaAirplaneId**


<p>diagram</p>	<p><b>badaAirplaneId</b> The BADA airplane ID.</p>
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type	<a href="#">badaAirplaneld</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The BADA airplane ID.


element **badaThrust/coeff\_TC1**

diagram	 <p>1st max climb thrust coefficient. Valid values: 0.0 through 1.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 1st max climb thrust coefficient. Valid values: 0.0 through 1.


element **badaThrust/coeff\_TC2**

diagram	 <p>2nd max climb thrust coefficient. Valid values: 0.0 through 1e9. (ft)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 2nd max climb thrust coefficient. Valid values: 0.0 through 1e9. (ft)

element **badaThrust/coeff\_TC3**

diagram	 <p>3rd max climb thrust coefficient. Valid values: -1034000 to 665880. Variable units. (1/feet^2 (jet); Newton (turboprop); knot-Newton (piston))</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 3rd max climb thrust coefficient. Valid values: -1034000 to 665880. Variable units. (1/feet^2 (jet); Newton (turboprop); knot-Newton (piston))

element **badaThrust/coeff\_TC4**

diagram	 <p>1st thrust temperature coefficient. Valid values: -45 through 50. (K)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation 1st thrust temperature coefficient. Valid values: -45 through 50. (K)


element **badaThrust/coeff\_TC5**

diagram	 <p>2nd thrust temperature coefficient. Valid values: 0.0 through 10.0. (1/K)</p>
type	<b>xs:double</b>
properties	content simple




annotation	documentation 2nd thrust temperature coefficient. Valid values: 0.0 through 10.0. (1/K)
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element **badaThrust/coeff\_TDL**

diagram	 <p>Low altitude descent thrust coefficient. Valid values: 0.0 through 10.0</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Low altitude descent thrust coefficient. Valid values: 0.0 through 10.0


element **badaThrust/coeff\_TDH**

diagram	 <p>High altitude descent thrust coefficient. Valid values: 0.0 through 10.0</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation High altitude descent thrust coefficient. Valid values: 0.0 through 10.0


element **badaThrust/coeff\_APP**

diagram	 <p>Approach thrust coefficient. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Approach thrust coefficient. Valid values: 0.0 through 10.0.

element **badaThrust/coeff\_LD**

diagram	 <p>Landing thrust coefficient. Valid values: 0.0 through 10.0.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Landing thrust coefficient. Valid values: 0.0 through 10.0.

element **badaThrust/descentAlt**

diagram	 <p>Transition altitude above MSL for calculation of descent thrust. Valid values: -9999.0 through 60000.0. (ft)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Transition altitude above MSL for calculation of descent thrust. Valid values: -9999.0 through 60000.0. (ft)

element **badaThrust/descentSpeed**

diagram	
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	<div style="border: 1px solid black; padding: 2px; width: fit-content;">descentSpeed</div> <p>Reference descent speed. Valid values: 0.0 through 600.0. (kts)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Reference descent speed. Valid values: 0.0 through 600.0. (kts)

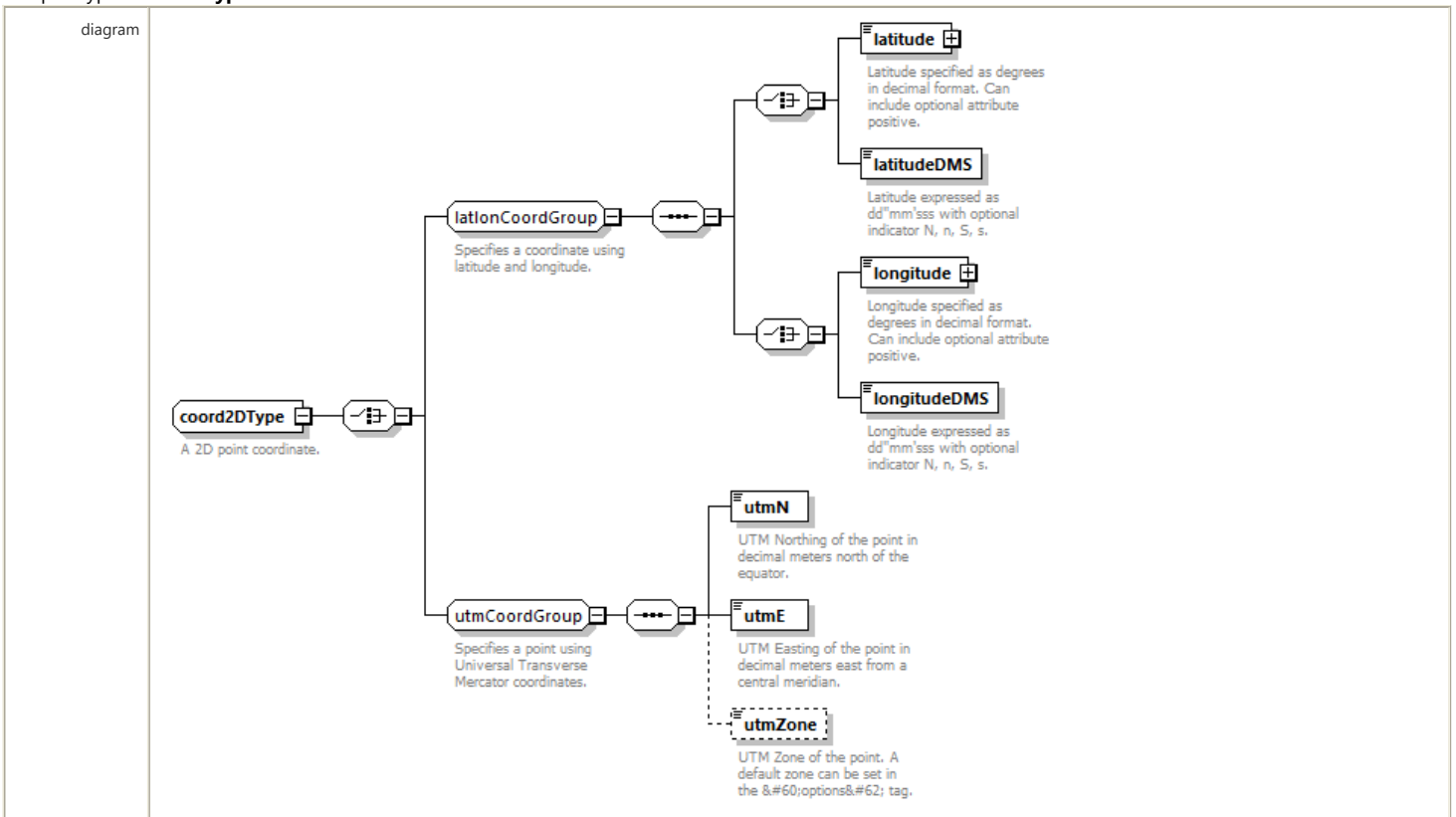
element **badaThrust/descentMach**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">descentMach</div> <p>Reference descent Mach number. Valid values: 0.0 through 10.0.</p>
type	<b>xs:float</b>
properties	content simple
annotation	documentation Reference descent Mach number. Valid values: 0.0 through 10.0.

element **badaThrust/notes**

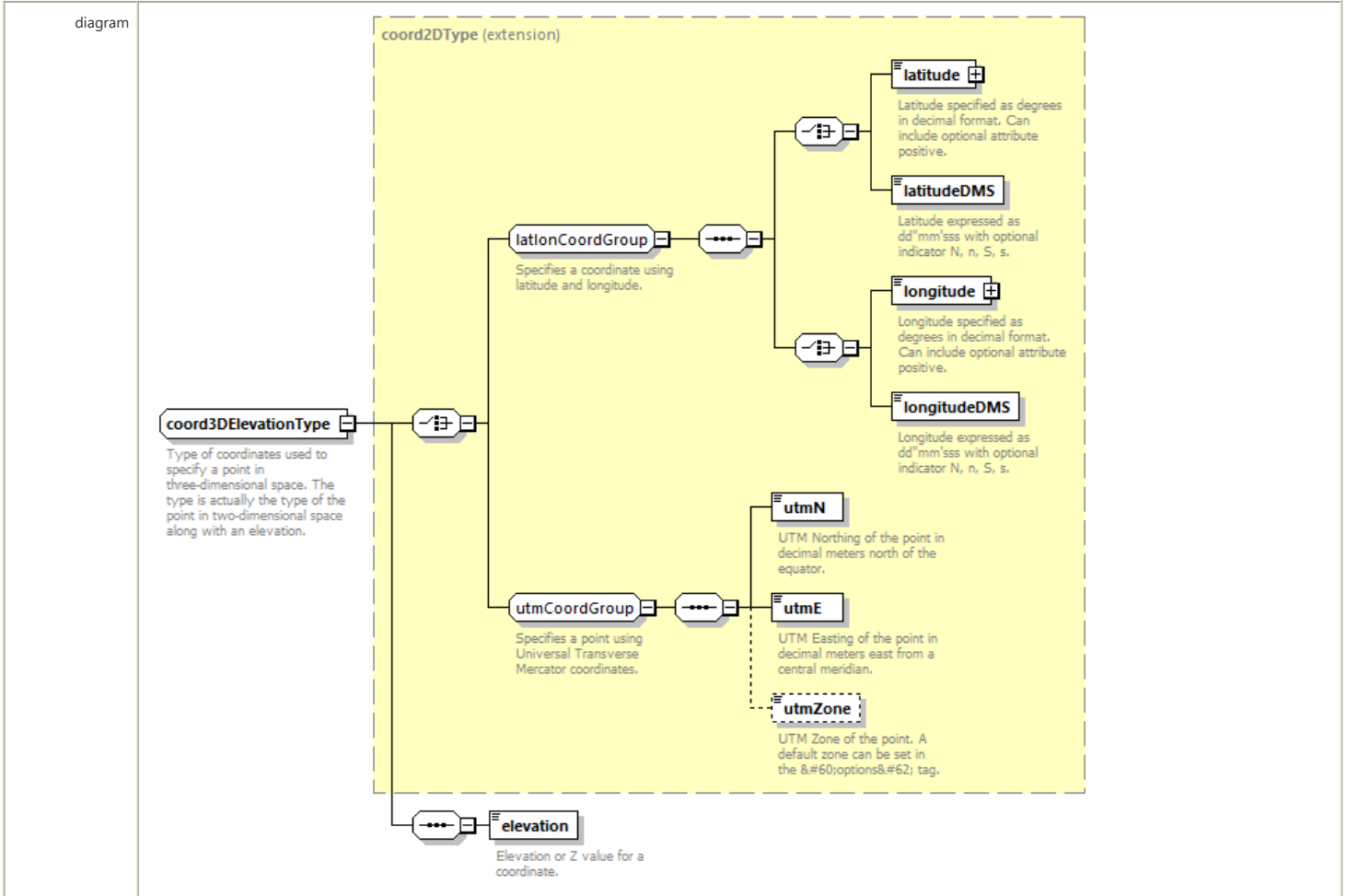
diagram	<div style="border: 1px dashed black; padding: 2px; width: fit-content;">notes</div> <p>User notes.</p>
type	<b>string255</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation User notes.

complexType **coord2DType**



children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a>
used by	elements <a href="#">stationarySourceOperation/pointCoord</a> <a href="#">pointStationarySource/pointCoord</a> <a href="#">volumeStationarySource/pointCoord</a> <a href="#">oneOrThreeCoords2DGroupSet/pointCoord</a> <a href="#">polygon2DType/vertex</a> complexType <a href="#">coord3DElevationType</a>
annotation	documentation A 2D point coordinate.

complexType **coord3DElevationType**



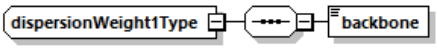
type	extension of <a href="#">coord2DType</a>
properties	base <a href="#">coord2DType</a>
children	<a href="#">latitude</a> <a href="#">latitudeDMS</a> <a href="#">longitude</a> <a href="#">longitudeDMS</a> <a href="#">utmN</a> <a href="#">utmE</a> <a href="#">utmZone</a> <a href="#">elevation</a>
used by	elements <a href="#">roadway/coordinates/vertex</a> <a href="#">polygon3DElevationType/vertex</a>
annotation	documentation Type of coordinates used to specify a point in three-dimensional space. The type is actually the type of the point in two-dimensional space along with an elevation.

element **coord3DElevationType/elevation**


diagram	<p><b>elevation</b> Elevation or Z value for a coordinate.</p>
type	<b>xs:float</b>
properties	content simple
annotation	documentation Elevation or Z value for a coordinate.

complexType **dispersionWeight1Type**

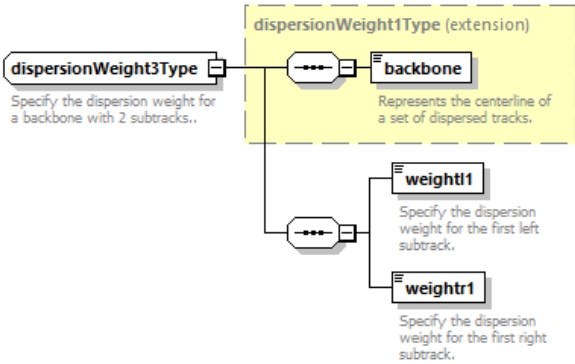
diagram	
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	 <p><b>dispersionWeight1Type</b> Abstract type used to specify the dispersion weight for the backbone subtrack. This type is intended only to be a base class and will not be used in ASIF files directly.</p> <p><b>backbone</b> Represents the centerline of a set of dispersed tracks.</p>
children	<a href="#">backbone</a>
used by	element <a href="#">dispersionWeight/dispersionWeight1</a> complexType <a href="#">dispersionWeight3Type</a>
annotation	documentation Abstract type used to specify the dispersion weight for the backbone subtrack. This type is intended only to be a base class and will not be used in ASIF files directly.


#### element [dispersionWeight1Type/backbone](#)

diagram	 <p><b>backbone</b> Represents the centerline of a set of dispersed tracks.</p>
type	<b>xs:double</b>
properties	content simple
used by	element <a href="#">track</a>
annotation	documentation Represents the centerline of a set of dispersed tracks.

#### complexType [dispersionWeight3Type](#)

diagram	 <p><b>dispersionWeight3Type</b> Specify the dispersion weight for a backbone with 2 subtracks..</p> <p><b>dispersionWeight1Type (extension)</b> Represents the centerline of a set of dispersed tracks.</p> <p><b>weight1</b> Specify the dispersion weight for the first left subtrack.</p> <p><b>weight1</b> Specify the dispersion weight for the first right subtrack.</p>
type	extension of <a href="#">dispersionWeight1Type</a>
properties	base dispersionWeight1Type
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weight1</a>
used by	element <a href="#">dispersionWeight/dispersionWeight3</a> complexType <a href="#">dispersionWeight5Type</a>
annotation	documentation Specify the dispersion weight for a backbone with 2 subtracks..

#### element [dispersionWeight3Type/weight1](#)

diagram	 <p><b>weight1</b> Specify the dispersion weight for the first left subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the first left subtrack.

#### element [dispersionWeight3Type/weightr1](#)

diagram	
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	<div style="border: 1px solid black; padding: 2px; width: fit-content;">weight1</div> <p>Specify the dispersion weight for the first right subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the first right subtrack.

complexType **dispersionWeight5Type**

diagram	<p>The diagram illustrates the structure of <b>dispersionWeight5Type</b>. It is an extension of <b>dispersionWeight3Type</b>. The structure is as follows:</p> <ul style="list-style-type: none"> <li><b>dispersionWeight5Type</b> (Specify the dispersion weight for a backbone with 4 subtracks.)       <ul style="list-style-type: none"> <li><b>backbone</b> (Represents the centerline of a set of dispersed tracks.)           <ul style="list-style-type: none"> <li><b>weight1</b> (Specify the dispersion weight for the first left subtrack.)</li> <li><b>weight1</b> (Specify the dispersion weight for the first right subtrack.)</li> <li><b>weight2</b> (Specify the dispersion weight for the second left subtrack.)</li> <li><b>weight2</b> (Specify the dispersion weight for the second right subtrack.)</li> </ul> </li> </ul> </li> </ul>
type	extension of <a href="#">dispersionWeight3Type</a>
properties	base <a href="#">dispersionWeight3Type</a>
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weight1</a> <a href="#">weight2</a> <a href="#">weight2</a>
used by	element <a href="#">dispersionWeight/dispersionWeight5</a> complexType <a href="#">dispersionWeight7Type</a>
annotation	documentation Specify the dispersion weight for a backbone with 4 subtracks.

element **dispersionWeight5Type/weight12**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">weight12</div> <p>Specify the dispersion weight for the second left subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the second left subtrack.

element **dispersionWeight5Type/weightr2**

diagram	<div style="border: 1px solid black; padding: 2px; width: fit-content;">weightr2</div> <p>Specify the dispersion weight for the second right subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the second right subtrack.

complexType **dispersionWeight7Type**

diagram	<p><b>dispersionWeight7Type</b> Specify the dispersion weight for a backbone with 6 subtracks.</p> <p><b>dispersionWeight5Type (extension)</b></p> <ul style="list-style-type: none"> <li><b>backbone</b> Represents the centerline of a set of dispersed tracks.</li> <li><b>weight1</b> Specify the dispersion weight for the first left subtrack.</li> <li><b>weight1</b> Specify the dispersion weight for the first right subtrack.</li> <li><b>weight2</b> Specify the dispersion weight for the second left subtrack.</li> <li><b>weight2</b> Specify the dispersion weight for the second right subtrack.</li> <li><b>weight3</b> Specify the dispersion weight for the third left subtrack.</li> <li><b>weight3</b> Specify the dispersion weight for the third right subtrack.</li> </ul>
type	extension of <a href="#">dispersionWeight5Type</a>
properties	base dispersionWeight5Type
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weightr1</a> <a href="#">weight2</a> <a href="#">weightr2</a> <a href="#">weight3</a> <a href="#">weightr3</a>
used by	element <a href="#">dispersionWeight/dispersionWeight7</a> complexType <a href="#">dispersionWeight9Type</a>
annotation	documentation Specify the dispersion weight for a backbone with 6 subtracks.

element **dispersionWeight7Type/weightl3**

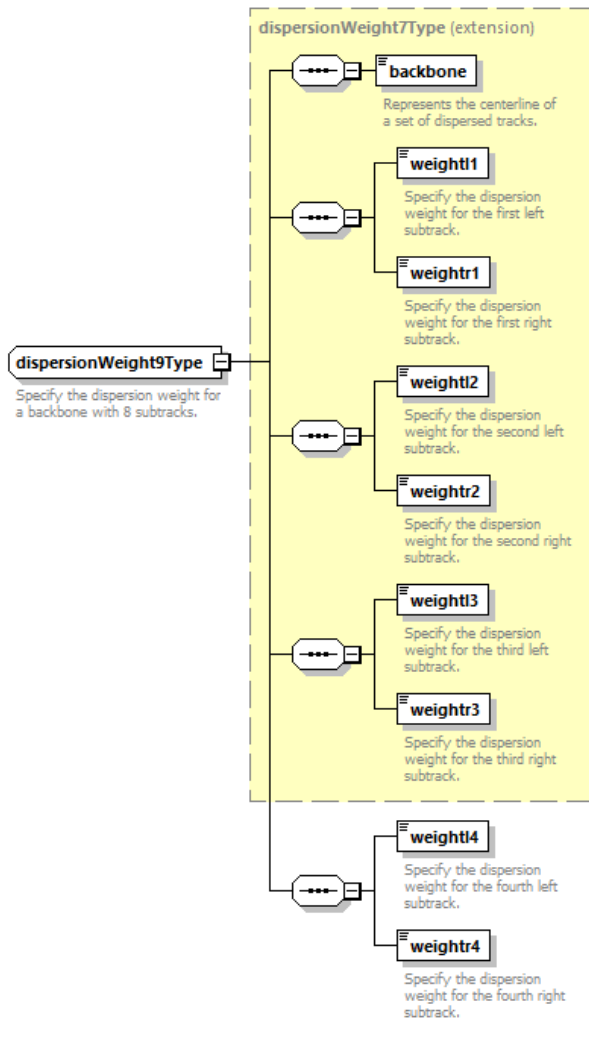
diagram	<p><b>weightl3</b> Specify the dispersion weight for the third left subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the third left subtrack.

element **dispersionWeight7Type/weightr3**

diagram	<p><b>weightr3</b> Specify the dispersion weight for the third right subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the third right subtrack.

complexType **dispersionWeight9Type**

diagram	
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type	extension of <a href="#">dispersionWeight7Type</a>
properties	base <a href="#">dispersionWeight7Type</a>
children	<a href="#">backbone</a> <a href="#">weight1</a> <a href="#">weightr1</a> <a href="#">weight2</a> <a href="#">weightr2</a> <a href="#">weight3</a> <a href="#">weightr3</a> <a href="#">weight4</a> <a href="#">weightr4</a>
used by	element <a href="#">dispersionWeight/dispersionWeight9</a>
annotation	documentation Specify the dispersion weight for a backbone with 8 subtracks.

#### element [dispersionWeight9Type/weight4](#)

diagram	<p>Specify the dispersion weight for the fourth left subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Specify the dispersion weight for the fourth left subtrack.

#### element [dispersionWeight9Type/weightr4](#)

diagram	<p>Specify the dispersion weight for the fourth right subtrack.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation

Specify the dispersion weight for the fourth right subtrack.

complexType **emissionFactorSet**

diagram	<p>Supports legacy EDMS studies relating to content that contains emission factor definitions. This element supports the definition of various emission factors defined under GSE and training fires.</p> <ul style="list-style-type: none"> <li><b>CO</b>: Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)</li> <li><b>HC</b>: Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>NOx</b>: Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)</li> <li><b>SOx</b>: Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)</li> <li><b>PM10</b>: Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)</li> </ul>
children	<b>CO HC NOx SOx PM10</b>
used by	elements <a href="#">userGroundSupportEquipment/userEmissionFactors/emissionFactorsCNG</a> <a href="#">userGroundSupportEquipment/userEmissionFactors/emissionFactorsDiesel</a> <a href="#">userGroundSupportEquipment/userEmissionFactors/emissionFactorsGas</a> <a href="#">userGroundSupportEquipment/userEmissionFactors/emissionFactorsLPG</a>
annotation	documentation Supports legacy EDMS studies relating to content that contains emission factor definitions. This element supports the definition of various emission factors defined under GSE and training fires.

element **emissionFactorSet/CO**

diagram	<p>Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of carbon monoxide emitted. Valid values: 0 to 3000. (kg/unit)

element **emissionFactorSet/HC**

diagram	<p>Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of hydrocarbons emitted. Valid values: 0 to 100. (kg/unit)

element **emissionFactorSet/NOx**

diagram	<p>Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of nitrous oxides emitted. Valid values: 0 to 100. (kg/unit)



element **emissionFactorSet/SOx**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of sulfur oxides emitted. Valid values: 0 to 10. (kg/unit)

element **emissionFactorSet/PM10**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Amount of 10-micron particulate matter emitted. Valid values: 0 to 1000. (kg/unit)

complexType **energyShare**

diagram	
children	<a href="#">anpAirplaneId</a> <a href="#">badaAirplaneId</a> <a href="#">transEnergyShare</a>
used by	element <a href="#">fleet/energyShare</a>
annotation	documentation A custom BADA energy share.

element **energyShare/anpAirplaneId**

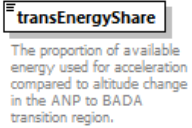
diagram	
type	<a href="#">anpAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation The ANP airplane ID.

element **energyShare/badaAirplaneId**

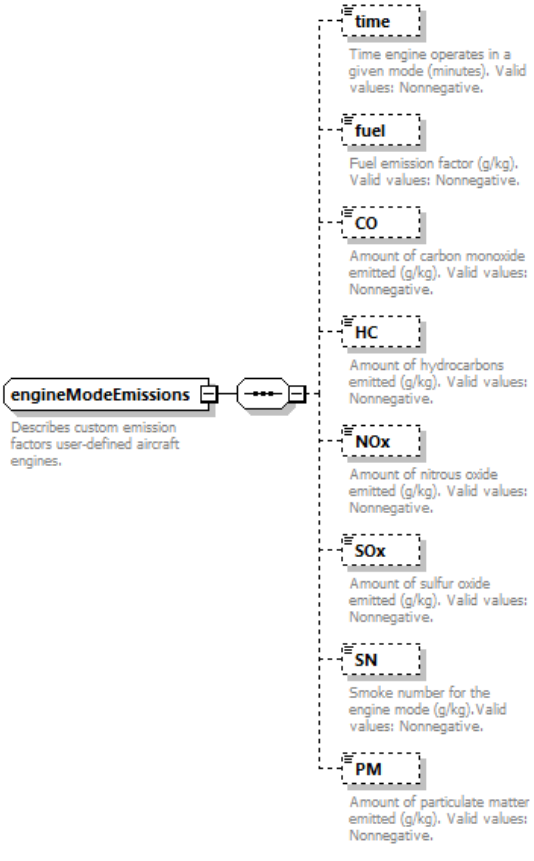
diagram	
type	<a href="#">badaAirplaneId</a>
properties	content simple
facets	Kind Value Annotation minLength 0

	maxLength 255
annotation	documentation The BADA airplane ID.

element **energyShare/transEnergyShare**

diagram	 <p><b>transEnergyShare</b> The proportion of available energy used for acceleration compared to altitude change in the ANP to BADA transition region.</p>
type	<b>xs:double</b>
properties	content simple
annotation	documentation The proportion of available energy used for acceleration compared to altitude change in the ANP to BADA transition region.

complexType **engineModeEmissions**

diagram	 <p><b>engineModeEmissions</b> Describes custom emission factors user-defined aircraft engines.</p> <ul style="list-style-type: none"> <li><b>time</b>: Time engine operates in a given mode (minutes). Valid values: Nonnegative.</li> <li><b>fuel</b>: Fuel emission factor (g/kg). Valid values: Nonnegative.</li> <li><b>CO</b>: Amount of carbon monoxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>HC</b>: Amount of hydrocarbons emitted (g/kg). Valid values: Nonnegative.</li> <li><b>NOx</b>: Amount of nitrous oxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>SOx</b>: Amount of sulfur oxide emitted (g/kg). Valid values: Nonnegative.</li> <li><b>SN</b>: Smoke number for the engine mode (g/kg). Valid values: Nonnegative.</li> <li><b>PM</b>: Amount of particulate matter emitted (g/kg). Valid values: Nonnegative.</li> </ul>
children	<b>time fuel CO HC NOx SOx SN PM</b>
used by	elements <a href="#">aircraftEngine/approachEmissionFactors</a> <a href="#">aircraftEngine/climbEmissionFactors</a> <a href="#">aircraftEngine/takeOffEmissionFactors</a> <a href="#">aircraftEngine/taxiIdleEmissionFactors</a>
annotation	documentation Describes custom emission factors user-defined aircraft engines.

element **engineModeEmissions/time**


diagram	 <p><b>time</b> Time engine operates in a given mode (minutes). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation

Time engine operates in a given mode (minutes). Valid values: Nonnegative.


element **engineModeEmissions/fuel**

diagram	 <p>Fuel emission factor (g/kg). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Fuel emission factor (g/kg). Valid values: Nonnegative.


element **engineModeEmissions/CO**

diagram	 <p>Amount of carbon monoxide emitted (g/kg). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of carbon monoxide emitted (g/kg). Valid values: Nonnegative.

element **engineModeEmissions/HC**

diagram	 <p>Amount of hydrocarbons emitted (g/kg). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of hydrocarbons emitted (g/kg). Valid values: Nonnegative.

element **engineModeEmissions/NOx**


diagram	 <p>Amount of nitrous oxide emitted (g/kg). Valid values: Nonnegative.</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of nitrous oxide emitted (g/kg). Valid values: Nonnegative.

element **engineModeEmissions/SOx**


diagram	 <p>Amount of sulfur oxide emitted (g/kg). Valid values: Nonnegative.</p>
type	<b>xs:double</b>

properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Amount of sulfur oxide emitted (g/kg). Valid values: Nonnegative.







element **engineModeEmissions/SN**

diagram	 Smoke number for the engine mode (g/kg). Valid values: Nonnegative.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Smoke number for the engine mode (g/kg). Valid values: Nonnegative.

element **engineModeEmissions/PM**

diagram	 Amount of particulate matter emitted (g/kg). Valid values: Nonnegative.
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Amount of particulate matter emitted (g/kg). Valid values: Nonnegative.

complexType **fleet**

diagram	<div style="border: 1px dashed black; padding: 10px;"> <p><b>auxiliaryPowerUnit</b> </p> <p>0..∞</p> <p>Describes a custom auxiliary power unit (APU). These are typically on-board generators providing power to a parked aircraft.</p> <p><b>airframe</b> </p> <p>0..∞</p> <p>Supports the definition of custom airframes.</p> <p><b>engine</b> </p> <p>0..∞</p> <p>User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can then be used within a user-defined aircraft.</p> <p><b>engineMod</b> </p> <p>0..∞</p> <p>User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.</p> <p><b>anpNoiseGroup</b> </p> <p>0..∞</p> <p>This element contains the three spectral class references for a given aircraft noise group with the corresponding thrust setting type and model type.</p> <p><b>anpAirplane</b> </p> </div>
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**fleet**

Main block for creating user defined fleet/aircraft data.

0..∞  
Creates a new ANP aircraft.

**anpFlapsSet**

0..∞  
Flap settings for an ANP aircraft type.

**anpThrustSet**

0..∞  
Specifies a set of thrust records for an ANP aircraft.

**anpProfileSet**

0..∞  
The profile set for an ANP aircraft.

**anpHeloNoiseGroup**

0..∞  
This element contains the three spectral class references for a given helicopter noise group with the corresponding thrust setting type and model type.

**anpHelicopter**

0..∞  
Creates a new ANP helicopter.

**anpHeloDirectivitySet**

0..∞  
A set of helicopter directivities.

**anpHeloProfileSet**

0..∞  
A profile set for an ANP helicopter.

**badaAirplane**

0..∞  
Describes a new user-defined BADA airplane.

**badaAltitudeDistributionSet**

0..∞  
A block for defining a BADA altitude distribution set.

**badaDefaultAltitudeDistribution...**

0..∞  
A block for defining the BADA default altitude distribution set.

**badaProfileSet**

0..∞  
A block used to define a custom BADA profile set.

**badaConfigSet**

0..∞  
A block for a custom BADA airplane configuration coefficient set.

**badaFuel**

0..∞  
A BADA fuel data record.

**badaThrust**

0..∞  
Custom BADA airplane thrust data sets.

**aircraft**

0..∞  
A block used to create new user defined AEDT aircraft.

**energyShare**

0..∞  
A custom BADA aircraft

energy share set.

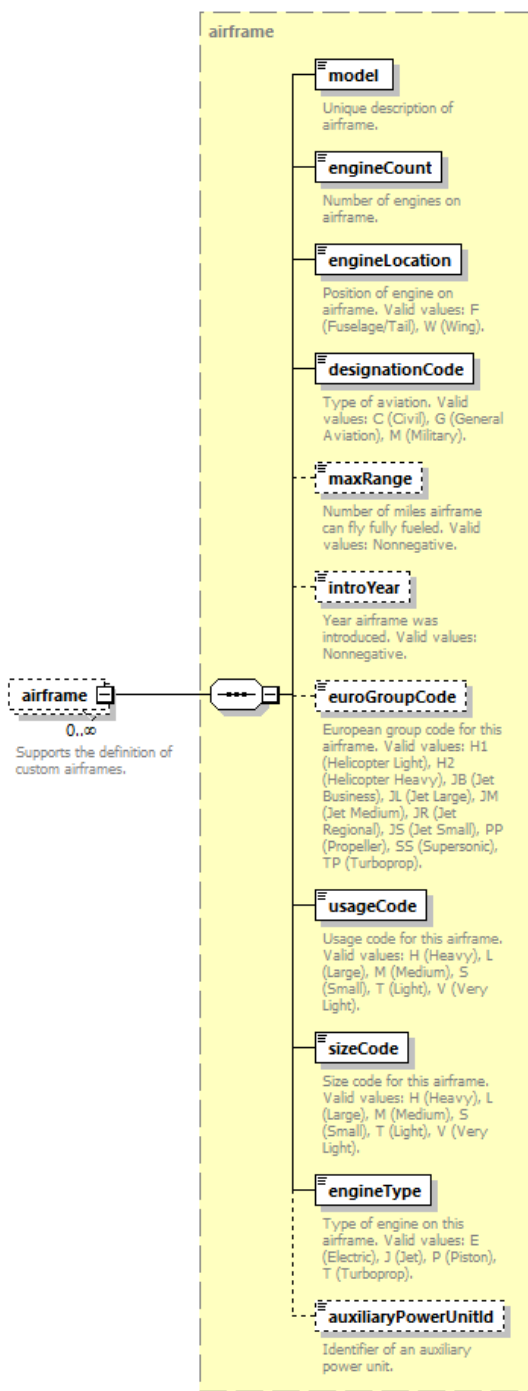
children	<a href="#">auxiliaryPowerUnit</a> <a href="#">airframe</a> <a href="#">engine</a> <a href="#">engineMod</a> <a href="#">anpNoiseGroup</a> <a href="#">anpAirplane</a> <a href="#">anpFlapsSet</a> <a href="#">anpThrustSet</a> <a href="#">anpProfileSet</a> <a href="#">anpHeloNoiseGroup</a> <a href="#">anpHelicopter</a> <a href="#">anpHeloDirectivitySet</a> <a href="#">anpHeloProfileSet</a> <a href="#">badaAirplane</a> <a href="#">badaAltitudeDistributionSet</a> <a href="#">badaDefaultAltitudeDistributionSet</a> <a href="#">badaProfileSet</a> <a href="#">badaConfigSet</a> <a href="#">badaFuel</a> <a href="#">badaThrust</a> <a href="#">aircraft</a> <a href="#">energyShare</a>
used by	elements <a href="#">AsifXml/fleet</a> <a href="#">study/fleet</a>
annotation	documentation Main block for creating user defined fleet/aircraft data.

element **fleet/auxiliaryPowerUnit**

diagram	<p><b>auxiliaryPowerUnit</b> 0..∞ Describes a custom auxiliary power unit (APU). These are typically on-board generators providing power to a parked aircraft.</p> <p><b>name</b> Identifying name of APU.</p> <p><b>baseAuxiliaryPowerUnit</b> Base reference name, typically a system name.</p> <p><b>defaultTimeArrivals</b> Default length of time APU used for powering arrival aircraft (minutes). Valid values: Nonnegative.</p> <p><b>defaultTimeDepartures</b> Default length of time APU used for powering departure aircraft (minutes). Valid values: Nonnegative.</p> <p><b>CO</b> Amount of carbon monoxide emitted (kg/hour). Valid values [0,8230;1,000].</p> <p><b>HC</b> Amount of hydrocarbons emitted (kg/hour). Valid values [0,8230;1,000].</p> <p><b>NOx</b> Amount of nitrous oxide emitted (kg/hour). Valid values [0,8230;1,000].</p> <p><b>SOx</b> Amount of sulfur oxide emitted (kg/hour). Valid values [0,8230;1,000].</p> <p><b>PM</b> Amount of particulate matter emitted (kg/hour). Valid values [0,8230;1,000].</p>
type	<a href="#">auxiliaryPowerUnit</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">name</a> <a href="#">baseAuxiliaryPowerUnit</a> <a href="#">defaultTimeArrivals</a> <a href="#">defaultTimeDepartures</a> <a href="#">CO</a> <a href="#">HC</a> <a href="#">NOx</a> <a href="#">SOx</a> <a href="#">PM</a>
annotation	documentation Describes a custom auxiliary power unit (APU). These are typically on-board generators providing power to a parked aircraft.

element **fleet/airframe**

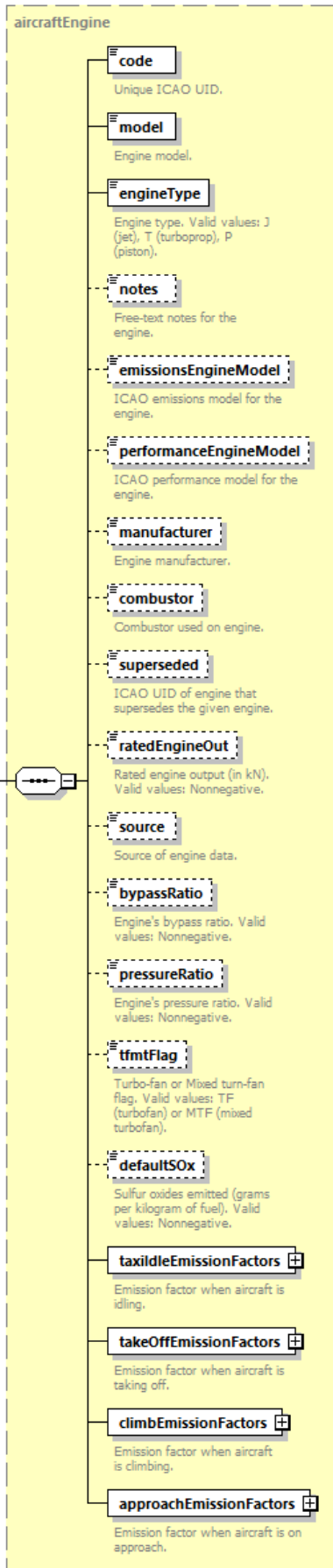
diagram	
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type	<b>airframe</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>model engineCount engineLocation designationCode maxRange introYear euroGroupCode usageCode sizeCode engineType auxiliaryPowerUnitId</b>
annotation	documentation Supports the definition of custom airframes.

element **fleet/engine**

diagram	
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**engine**  
0..∞  
User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can then be used within a user-defined aircraft.

type	<b>aircraftEngine</b>
properties	minOcc 0 maxOcc unbounded content complex



children	<a href="#">code</a> <a href="#">model</a> <a href="#">engineType</a> <a href="#">notes</a> <a href="#">emissionsEngineModel</a> <a href="#">performanceEngineModel</a> <a href="#">manufacturer</a> <a href="#">combustor</a> <a href="#">superseded</a> <a href="#">ratedEngineOut</a> <a href="#">source</a> <a href="#">bypassRatio</a> <a href="#">pressureRatio</a> <a href="#">fmtFlag</a> <a href="#">defaultSOx</a> <a href="#">taxiIdleEmissionFactors</a> <a href="#">takeOffEmissionFactors</a> <a href="#">climbEmissionFactors</a> <a href="#">approachEmissionFactors</a>
annotation	documentation User defined engine information containing custom parameters that reflect an aircraft engine. This engine definition can then be used within a user-defined aircraft.

element **fleet/engineMod**

diagram	<p><b>engineMod</b> 0..∞ User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.</p> <p><b>aircraftEngineMod</b></p> <ul style="list-style-type: none"> <li><b>code</b>: Unique ICAO UID.</li> <li><b>description</b>: Description of engine modifications.</li> </ul>
type	<a href="#">aircraftEngineMod</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">code</a> <a href="#">description</a>
annotation	documentation User defined engine modification information containing custom parameters that reflect an aircraft engine modification. This engine modification definition can that be used within a user defined aircraft.

element **fleet/anpNoiseGroup**

diagram	<p><b>anpNoiseGroup</b> 0..∞ This element contains the three spectral class references for a given aircraft noise group with the corresponding thrust setting type and model type.</p> <p><b>anpNoiseGroup</b></p> <ul style="list-style-type: none"> <li><b>noiseld</b>: Noise group's ID.</li> <li><b>spectralClassApproach</b>: Spectral class number for approach (min = 0, max = 999).</li> <li><b>spectralClassDeparture</b>: Spectral class number for departure (min = 0, max = 999).</li> <li><b>spectralClassAfterburner</b>: Spectral class number for afterburner (min = 0, max = 999).</li> <li><b>thrustSetType</b>: Type of thrust setting. Valid values: L (pounds), P (percent), X (other).</li> <li><b>modelType</b>: Type of distance-duration model. Valid values: I (INM), N (NoiseMap).</li> <li><b>npdCurves</b>: The set of noise curves for ANP aircraft.</li> </ul>
type	<a href="#">anpNoiseGroup</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">noiseld</a> <a href="#">spectralClassApproach</a> <a href="#">spectralClassDeparture</a> <a href="#">spectralClassAfterburner</a> <a href="#">thrustSetType</a> <a href="#">modelType</a> <a href="#">npdCurves</a>
annotation	documentation This element contains the three spectral class references for a given aircraft noise group with the corresponding thrust setting type and model type.

element **fleet/anpAirplane**

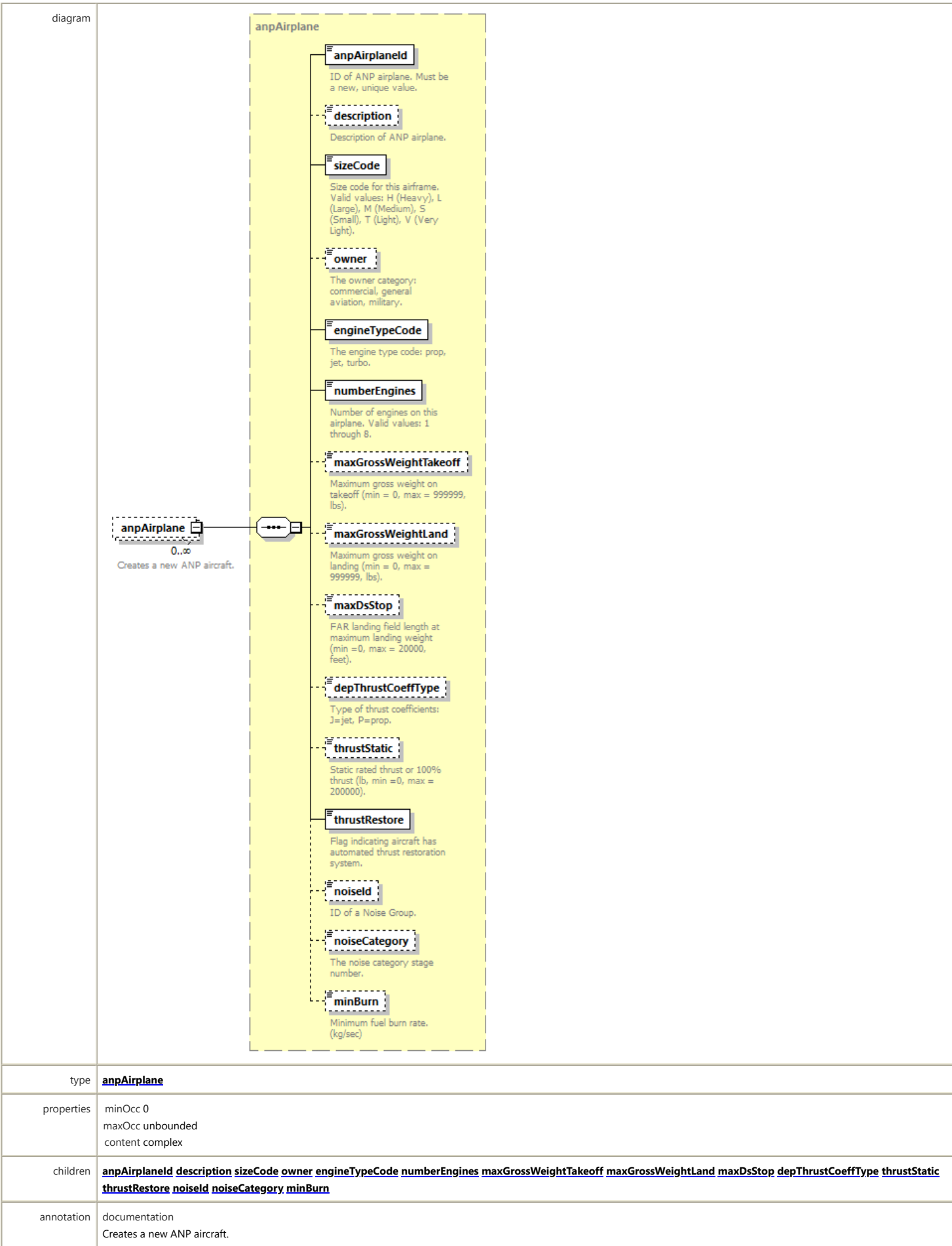


diagram	
type	<b>anpFlapsSet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpAirplaneId flaps</b>
annotation	documentation Flap settings for an ANP aircraft type.

#### element **fleet/anpThrustSet**

diagram	
type	<b>anpThrustSet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpAirplaneId thrustGeneral thrustJet thrustProp tsfcCoefficients</b>
annotation	documentation Specifies a set of thrust records for an ANP aircraft.

#### element **fleet/anpProfileSet**

diagram	
type	<b>anpProfileSet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpAirplaneId profile</b>
annotation	documentation The profile set for an ANP aircraft.

#### element **fleet/anpHeloNoiseGroup**

diagram	
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	<p><b>anpHeloNoiseGroup</b></p> <p>This element contains the three spectral class references for a given helicopter noise group with the corresponding thrust setting type and model type.</p> <ul style="list-style-type: none"> <li><b>noiseld</b>: The noise group id.</li> <li><b>spectralClassApproach</b>: The approach spectral class number. Valid values: 0 to 999.</li> <li><b>spectralClassDeparture</b>: The departure spectral class number. Valid values: 0 to 999.</li> <li><b>spectralClassFlyover</b>: The flyover spectral class number. Valid values: 0 to 999.</li> <li><b>speedApproach</b>: N 6.1 Approach reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</li> <li><b>speedDeparture</b>: N 6.1 Depart reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</li> <li><b>speedFlyover</b>: N 6.1 Flyover reference speed (knots). Valid values: Min = 0.0 Max = 250.0.</li> <li><b>npdCurves</b>: The set of noise curves for this group.</li> </ul>
type	<b>anpHeloNoiseGroup</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>noiseld spectralClassApproach spectralClassDeparture spectralClassFlyover speedApproach speedDeparture speedFlyover npdCurves</b>
annotation	documentation This element contains the three spectral class references for a given helicopter noise group with the corresponding thrust setting type and model type.

element **fleet/anpHelicopter**

diagram	<p><b>anpHelicopter</b></p> <ul style="list-style-type: none"> <li><b>anpHelicopterId</b>: Unique ID number of ANP Helicopter.</li> <li><b>noiseld</b>: ID of a Noise Group.</li> <li><b>directivityId</b>: Noise directivity ID for ANP helicopter.</li> <li><b>description</b>: Description of ANP Helicopter.</li> <li><b>owner</b>: The owner category. Valid values: C (commercial), G (general aviation), M (military).</li> <li><b>engineTypeCode</b>: The engine type code. Valid values: P (piston), J (jet), T (turboprop).</li> <li><b>numberRotors</b>: The number of rotors. Valid values: 1 to 9.</li> </ul>
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**anpHelicopter**  
0..∞  
Creates a new ANP helicopter.

**diameter**

The helicopter diameter (feet). Valid values: 0 to 1000.

**rpm**

The helicopter rotor speed (revolutions per minute). Valid values: 0 to 1000.

**maxTakeoffWeight**

The max gross takeoff weight (pounds). Valid values: 0 to 50000.

**hasWheels**

Flag indicating if the helicopter has wheels. Valid values: Y (yes), N (no).

**modelType**

The helicopter model type. Valid values: I (INM), N (NoiseMap).

**bLeft0**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bLeft1**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bLeft2**

Adjust flyover noise as a function of speed, left. Valid values: Min = -999.99 Max = 999.99.

**bCenter0**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bCenter1**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bCenter2**

Adjust flyover noise as a function of speed, center. Valid values: Min = -999.99 Max = 999.99.

**bRight0**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**bRight1**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**bRight2**

Adjust flyover noise as a function of speed, right. Valid values: Min = -999.99 Max = 999.99.

**dbVerticalAscent**

Decibel offset added to NPD levels, vertical ascent (dB). Valid values: Min = -50 Max = 50.

**dbVerticalDescent**

Decibel offset added to NPD levels, vertical descent (dB). Valid values: Min = -50 Max = 50.

	<div style="border: 1px dashed black; padding: 10px;"> <p><b>dbHorizontalAcceleration</b> Decibel offset added to NPD levels, depart horizontal acceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbClimbAcceleration</b> Decibel offset added to NPD levels, depart with climbing acceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbHorizontalDeceleration</b> Decibel offset added to NPD levels, approach with horizontal deceleration (dB). Valid values: Min = -50 Max = 50.</p> <p><b>dbDescendDeceleration</b> Decibel offset added to NPD levels, approach with descending deceleration (dB). Valid values: Min = -50 Max = 50.</p> </div>
type	<b>anpHelicopter</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpHelicopterId</b> <b>noiseld</b> <b>directivityld</b> <b>description</b> <b>owner</b> <b>engineTypeCode</b> <b>numberRotors</b> <b>diameter</b> <b>rpm</b> <b>maxTakeoffWeight</b> <b>hasWheels</b> <b>modelType</b> <b>bLeft0</b> <b>bLeft1</b> <b>bLeft2</b> <b>bCenter0</b> <b>bCenter1</b> <b>bCenter2</b> <b>bRight0</b> <b>bRight1</b> <b>bRight2</b> <b>dbVerticalAscent</b> <b>dbVerticalDescent</b> <b>dbHorizontalAcceleration</b> <b>dbClimbAcceleration</b> <b>dbHorizontalDeceleration</b> <b>dbDescendDeceleration</b>
annotation	documentation Creates a new ANP helicopter.

#### element **fleet/anpHeloDirectivitySet**

diagram	
type	<b>anpHeloDirectivitySet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpHeloDirectivityId</b> <b>anpHeloDirectivity</b>
annotation	documentation A set of helicopter directivities.

#### element **fleet/anpHeloProfileSet**

diagram	
type	<b>anpHeloProfileSet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpHeloDirectivityId</b> <b>profile</b>

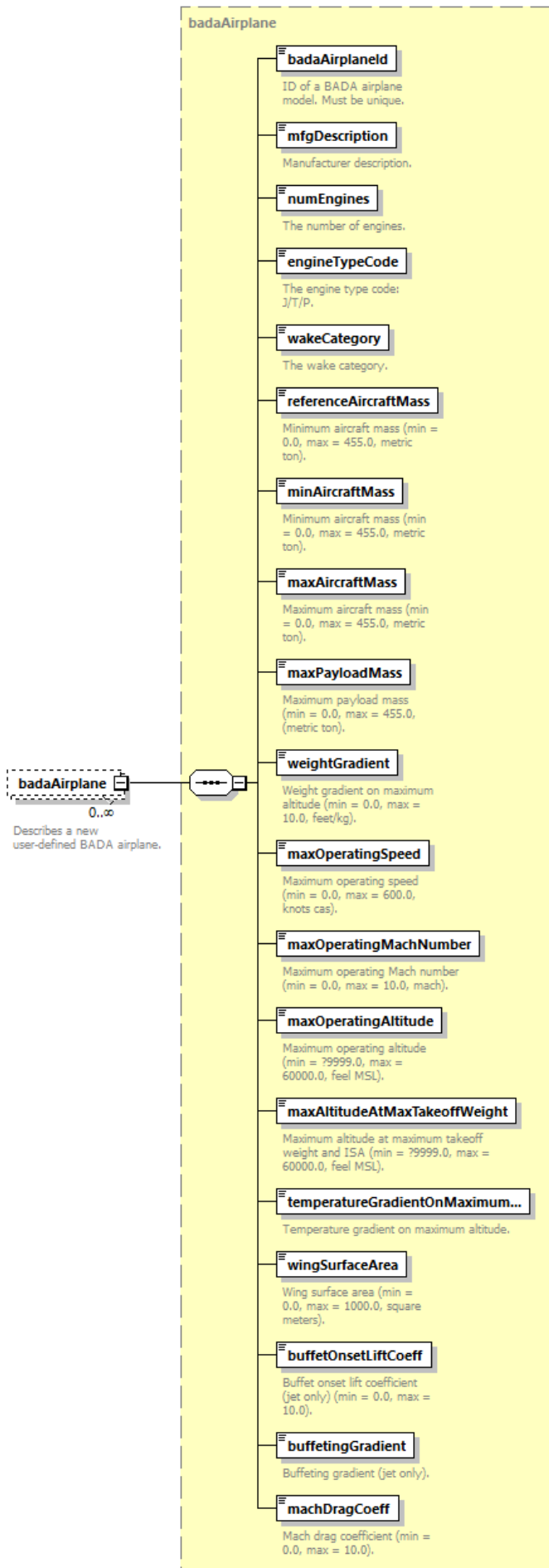
annotation

documentation

A profile set for an ANP helicopter.

element **fleet/badaAirplane**

diagram



type **badaAirplane**



properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">badaAirplaneId</a> <a href="#">mfgDescription</a> <a href="#">numEngines</a> <a href="#">engineTypeCode</a> <a href="#">wakeCategory</a> <a href="#">referenceAircraftMass</a> <a href="#">minAircraftMass</a> <a href="#">maxAircraftMass</a> <a href="#">maxPayloadMass</a> <a href="#">weightGradient</a> <a href="#">maxOperatingSpeed</a> <a href="#">maxOperatingMachNumber</a> <a href="#">maxOperatingAltitude</a> <a href="#">maxAltitudeAtMaxTakeoffWeight</a> <a href="#">temperatureGradientOnMaximumAltitude</a> <a href="#">wingSurfaceArea</a> <a href="#">buffetOnsetLiftCoeff</a> <a href="#">buffetingGradient</a> <a href="#">machDragCoeff</a>
annotation	documentation Describes a new user-defined BADA airplane.

element **fleet/badaAltitudeDistributionSet**

diagram	<p>A block for defining a BADA altitude distribution set.</p>
type	<a href="#">badaAltitudeDistributionSet</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">badaAirplaneId</a> <a href="#">altitudeDistribution</a>
annotation	documentation A block for defining a BADA altitude distribution set.

element **fleet/badaDefaultAltitudeDistributionSet**

diagram	<p>A block for defining the BADA default altitude distribution set.</p>
type	<a href="#">badaAltitudeDistributionSet</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">badaAirplaneId</a> <a href="#">altitudeDistribution</a>
annotation	documentation A block for defining the BADA default altitude distribution set.

element **fleet/badaProfileSet**

diagram	<p>A block used to define a custom BADA profile set.</p>
type	<a href="#">badaProfileSet</a>
properties	minOcc 0 maxOcc unbounded content complex
children	<a href="#">badaAirplaneId</a> <a href="#">profile</a>
annotation	documentation A block used to define a custom BADA profile set.

element **fleet/badaConfigSet**

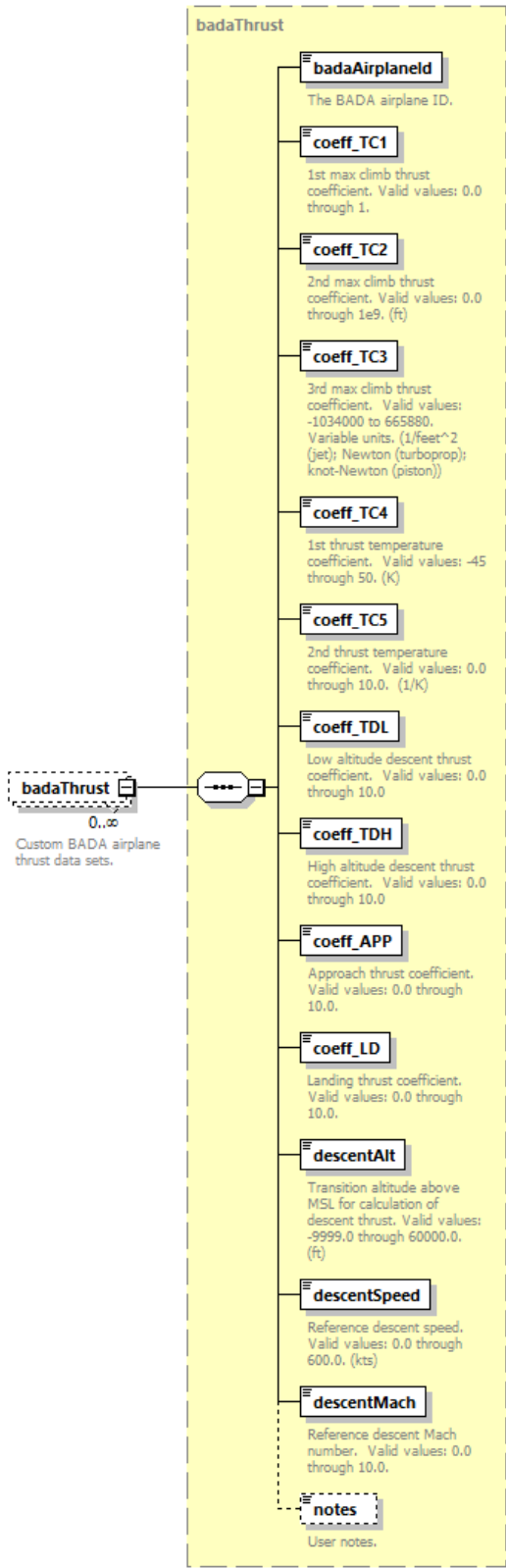
diagram	
type	<b>badaConfigSet</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>badaAirplaneId</b> <b>badaConfig</b>
annotation	documentation A block for a custom BADA airplane configuration coefficient set.

element **fleet/badaFuel**

diagram	
type	<b>badaFuel</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>badaAirplaneId</b> <b>coeff CF1</b> <b>coeff CF2</b> <b>coeff CF3</b> <b>coeff CF4</b> <b>coeff CR</b>
annotation	documentation A BADA fuel data record.

element **fleet/badaThrust**

diagram	
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type	<b>badaThrust</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>badaAirplaneId coeff TC1 coeff TC2 coeff TC3 coeff TC4 coeff TC5 coeff TDL coeff TDH coeff APP coeff LD descentAlt descentSpeed descentMach notes</b>
annotation	documentation Custom BADA airplane thrust data sets.

element **fleet/aircraft**

diagram	
type	<b>aircraft</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>description</b> <b>airframeModel</b> <b>engineCode</b> <b>engineModCode</b> <b>anpAirplaneId</b> <b>badaAirplaneId</b> <b>anpHelicopterId</b>
annotation	documentation A block used to create new user defined AEDT aircraft.

element **fleet/energyShare**

diagram	
type	<b>energyShare</b>
properties	minOcc 0 maxOcc unbounded content complex
children	<b>anpAirplaneId</b> <b>badaAirplaneId</b> <b>transEnergyShare</b>
annotation	documentation A custom BADA aircraft energy share set.

complexType **latitudeDecimalType**

diagram	
type	extension of <b>xs:double</b>

properties	base xs:double					
used by	element <a href="#">latlonCoordGroup/latitude</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">positive</a>	<b>derived by: xs:string</b>	optional	N		
annotation	documentation Latitude specified as degrees in decimal format. Can include optional attribute positive. (decimal degrees)					

#### attribute [latitudeDecimalType/@positive](#)

type	restriction of <b>xs:string</b>
properties	use optional default N
facets	Kind Value Annotation pattern N n S s

#### complexType [longitudeDecimalType](#)

diagram						
type	extension of <b>xs:double</b>					
properties	base xs:double					
used by	element <a href="#">latlonCoordGroup/longitude</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">positive</a>	<b>derived by: xs:string</b>	optional	E		
annotation	documentation Longitude specified as degrees in decimal format. Can include optional attribute positive. (decimal degrees)					

#### attribute [longitudeDecimalType/@positive](#)

type	restriction of <b>xs:string</b>
properties	use optional default E
facets	Kind Value Annotation pattern E e W w

#### complexType [polygon2DType](#)

diagram						
children	<a href="#">dummy</a> <a href="#">vertex</a>					
used by	elements <a href="#">boundary/polygon</a> <a href="#">oneOrThreeCoords2DGroupSet/polygonCoords</a>					
annotation	documentation Describes a 2 dimensional polygon.					

#### element [polygon2DType/dummy](#)

diagram						
type	<b>xs:int</b>					
properties	minOcc 0 maxOcc 1 content simple					

#### element [polygon2DType/vertex](#)

diagram						
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diagram	
type	<b>coord2DType</b>
properties	minOcc 3 maxOcc unbounded content complex
children	<b>latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone</b>
annotation	documentation A list of vertices defining the polygon.

complexType **polygon3DElevationType**

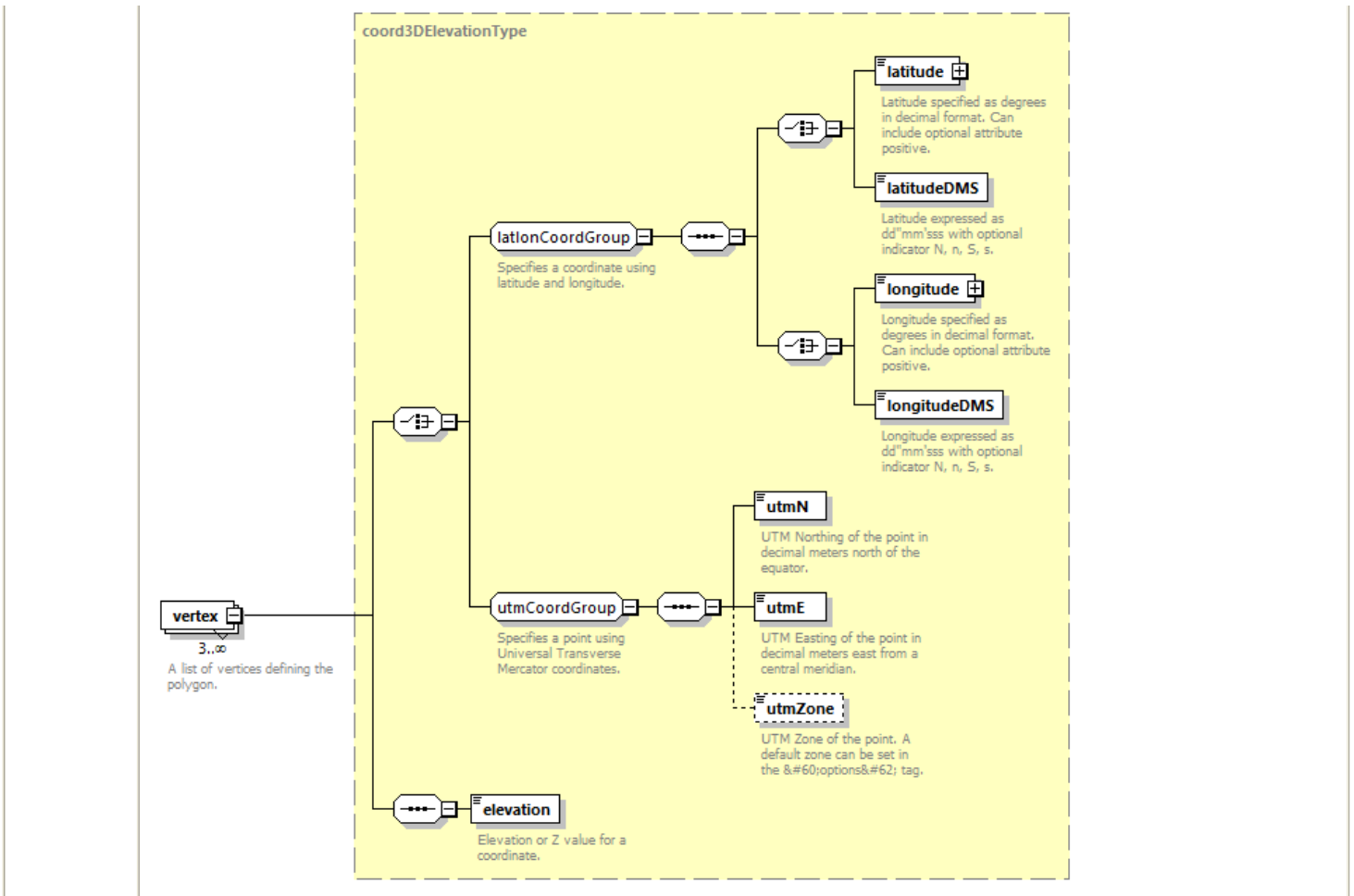
diagram	
children	<b>dummy vertex</b>
annotation	documentation The elevation or Z value for a polygon.

element **polygon3DElevationType/dummy**

diagram	
type	<b>xs:int</b>
properties	minOcc 0 maxOcc 1 content simple

element **polygon3DElevationType/vertex**

diagram	
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type	<b>coord3DElevationType</b>
properties	minOcc 3 maxOcc unbounded content complex
children	<b>latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone elevation</b>
annotation	documentation A list of vertices defining the polygon.

complexType **profiles**

diagram	
children	<b>departureProfile arrivalProfile</b>
used by	elements <b>operation/badaProfiles operation/saeProfiles</b>
annotation	documentation Contains an arrival and departure profile.

element **profiles/departureProfile**

diagram	
type	<b>profileType</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255

annotation	documentation A flight's departure profile.
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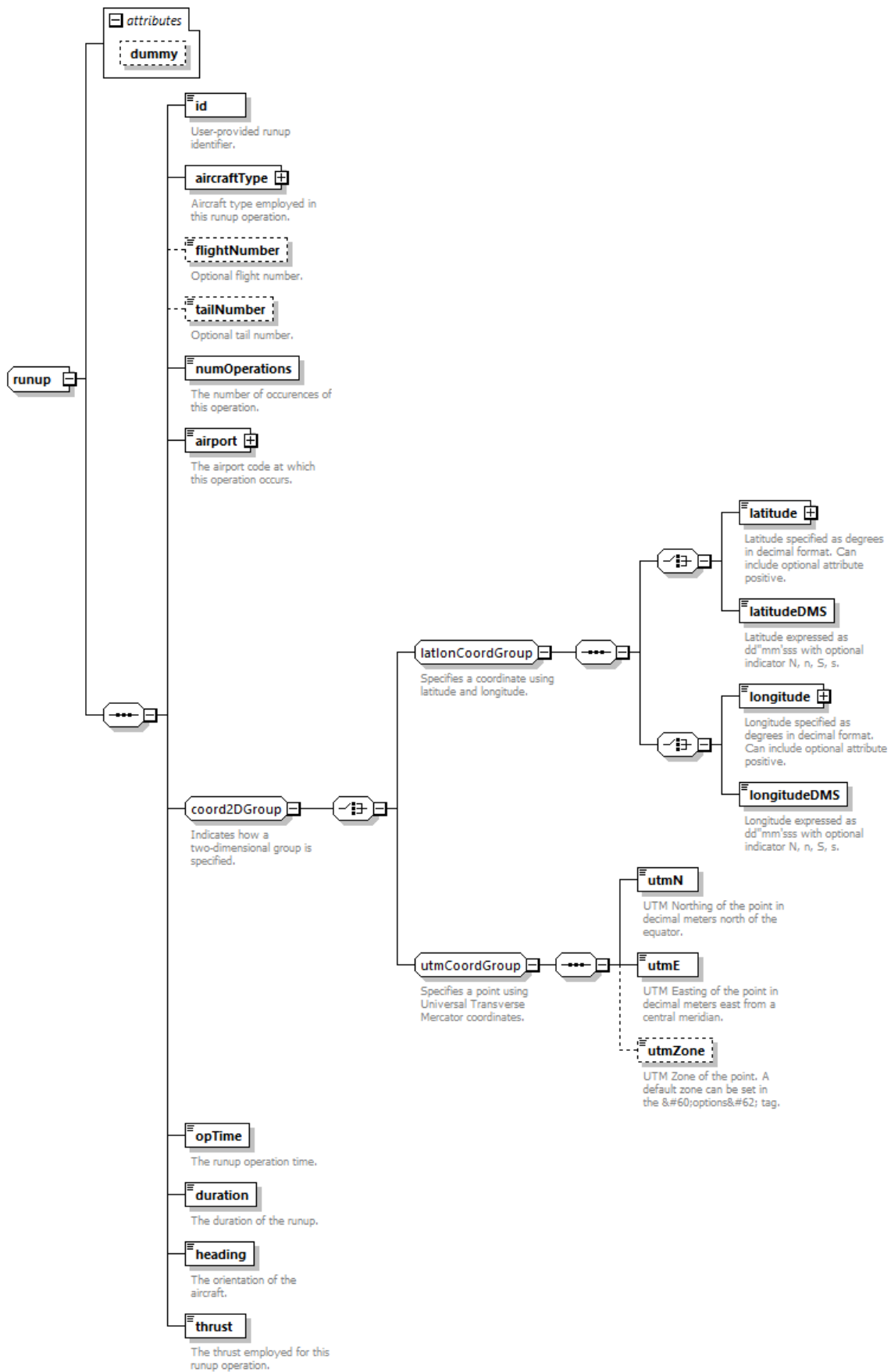
element **profiles/arrivalProfile**

diagram	 A flight's arrival profile.
type	<a href="#">profileType</a>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation A flight's arrival profile.

complexType **runup**

diagram	
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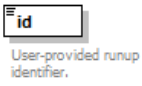


children	<b>id aircraftType flightNumber tailNumber numOperations airport latitude latitudeDMS longitude longitudeDMS utmN utmE utmZone opTime duration heading thrust</b>					
used by	elements <a href="#">AsifXml/runup case/runup</a>					
attributes	Name	Type	Use	Default	Fixed	Annotation
	<a href="#">dummy</a>	<b>xs:int</b>	optional			

attribute **runup/@dummy**

type	<b>xs:int</b>
properties	use optional

element **runup/id**

diagram	
type	<b>string16</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation User-provided runup identifier.

element **runup/aircraftType**

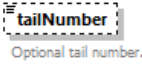
diagram	
type	<b>aircraftType</b>
properties	content complex
children	<b>anpAircraftId</b> <b>airframeModel</b> <b>engineCode</b> <b>engineModCode</b> <b>apuName</b> <b>groundSupportEquipmentLTOperationSet</b> <b>assignDefaultGse</b>
annotation	documentation Aircraft type employed in this runup operation.

element **runup/flightNumber**


diagram	
type	<b>string16</b>
properties	minOcc 0 maxOcc 1 content simple

facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation Optional flight number.

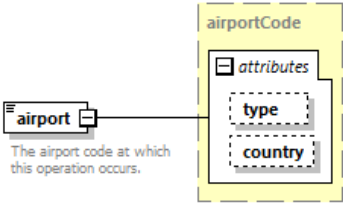
element **runup/tailNumber**

diagram	 Optional tail number.
type	<b>string8</b>
properties	minOcc 0 maxOcc 1 content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation Optional tail number.

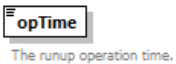
element **runup/numOperations**

diagram	 The number of occurrences of this operation.
type	<b>xs:double</b>
properties	content simple
annotation	documentation The number of occurrences of this operation.


element **runup/airport**

diagram	 The airport code at which this operation occurs.																		
type	<b>airportCode</b>																		
properties	content complex																		
facets	Kind Value Annotation minLength 0 maxLength 4																		
attributes	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Use</th> <th>Default</th> <th>Fixed</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td><a href="#">type</a></td> <td><b>airportCodeType</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> <tr> <td><a href="#">country</a></td> <td><b>string3</b></td> <td>optional</td> <td>ANY</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Type	Use	Default	Fixed	Annotation	<a href="#">type</a>	<b>airportCodeType</b>	optional	ANY			<a href="#">country</a>	<b>string3</b>	optional	ANY		
Name	Type	Use	Default	Fixed	Annotation														
<a href="#">type</a>	<b>airportCodeType</b>	optional	ANY																
<a href="#">country</a>	<b>string3</b>	optional	ANY																
annotation	documentation The airport code at which this operation occurs.																		

element **runup/opTime**

diagram	 The runup operation time.
type	<b>xs:dateTime</b>
properties	content simple
annotation	documentation The runup operation time.


element **runup/duration**

diagram	 The duration of the runup.
type	<b>xs:double</b>
properties	content simple
annotation	documentation The duration of the runup.

element **runup/heading**

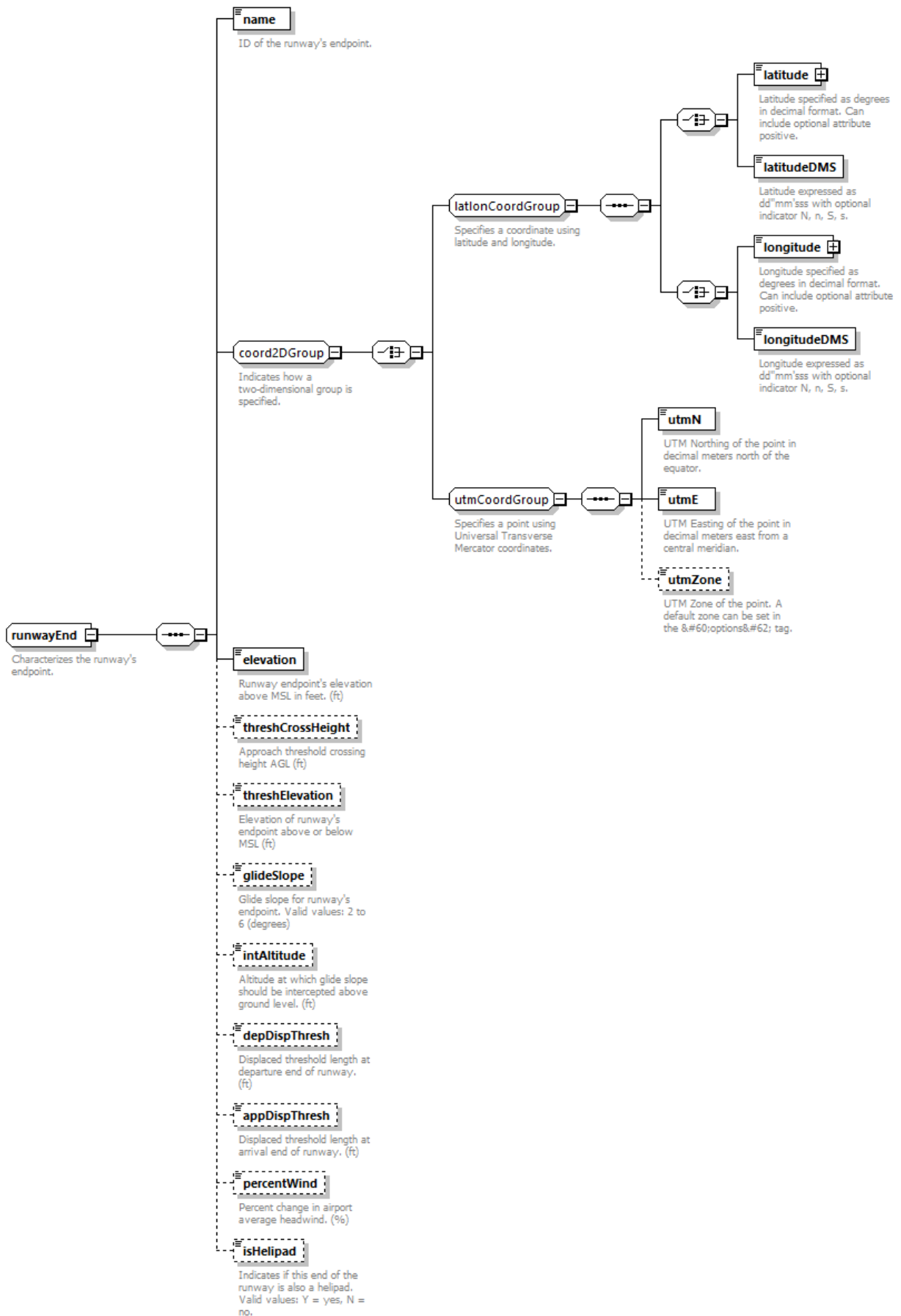
diagram	 The orientation of the aircraft.
type	<b>xs:double</b>
properties	content simple
annotation	documentation The orientation of the aircraft.

element **runup/thrust**

diagram	 The thrust employed for this runup operation.
type	<b>xs:double</b>
properties	content simple
annotation	documentation The thrust employed for this runup operation.

complexType **runwayEnd**

diagram	
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children [name](#) [latitude](#) [latitudeDMS](#) [longitude](#) [longitudeDMS](#) [utmN](#) [utmE](#) [utmZone](#) [elevation](#) [threshCrossHeight](#) [threshElevation](#) [glideSlope](#) [intAltitude](#) [depDispThresh](#) [appDispThresh](#) [percentWind](#) [isHelipad](#)

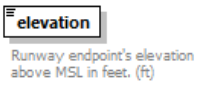
used by element [runway/runwayEnd](#)

annotation	documentation Characterizes the runway's endpoint.
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#### element **runwayEnd/name**

diagram	
type	<b>string8</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation ID of the runway's endpoint.

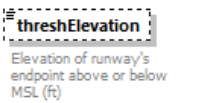
#### element **runwayEnd/elevation**

diagram	
type	<b>xs:double</b>
properties	content simple
annotation	documentation Runway endpoint's elevation above MSL in feet. (ft)

#### element **runwayEnd/threshCrossHeight**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Approach threshold crossing height AGL (ft)

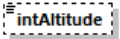
#### element **runwayEnd/threshElevation**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Elevation of runway's endpoint above or below MSL (ft)

#### element **runwayEnd/glideSlope**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Glide slope for runway's endpoint. Valid values: 2 to 6 (degrees)

**element runwayEnd/intAltitude**

diagram	 <p>Altitude at which glide slope should be intercepted above ground level. (ft)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Altitude at which glide slope should be intercepted above ground level. (ft)

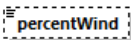
**element runwayEnd/depDispThresh**

diagram	 <p>Displaced threshold length at departure end of runway. (ft)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Displaced threshold length at departure end of runway. (ft)

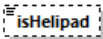
**element runwayEnd/appDispThresh**

diagram	 <p>Displaced threshold length at arrival end of runway. (ft)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Displaced threshold length at arrival end of runway. (ft)

**element runwayEnd/percentWind**

diagram	 <p>Percent change in airport average headwind. (%)</p>
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Percent change in airport average headwind. (%)

**element runwayEnd/isHelipad**

diagram	 <p>Indicates if this end of the runway is also a helipad. Valid values: Y = yes, N = no.</p>
type	<b>xs:string</b>
properties	minOcc 0 maxOcc 1 content simple
annotation	documentation Indicates if this end of the runway is also a helipad. Valid values: Y = yes, N = no.

complexType **scenarioAirportLayoutType**

<p>diagram</p>	<p><b>airportLayoutName</b> Airport layout name.</p> <p><b>mixingHeight</b> Height at the top layer of atmosphere where relatively vigorous mixing of pollutants and other gases takes place for the airport in a given month. Varies diurnally and seasonally. (ft)</p> <p><b>useHourlyMetData</b> If true, use user-defined hourly meteorological data to compute emissions. If false, use default annual averages to compute emissions. (true or false)</p> <p><b>averageTemperature</b> Average temperature (°F).</p> <p><b>dailyHighTemperature</b> Average daily high temperature (°F).</p> <p><b>dailyLowTemperature</b> Average daily low temperature (°F).</p> <p><b>pressure</b> Average barometric pressure. (in Hg)</p> <p><b>pressureMSL</b> Average barometric pressure at mean sea level.</p> <p><b>humidity</b> Relative humidity (%).</p> <p><b>windSpeed</b> Wind speed at airport surface (mph).</p> <p><b>windDirection</b> Wind direction. Valid values: 0-360. (degrees)</p> <p><b>ceiling</b> Ceiling (ft).</p> <p><b>visibility</b> Visibility (mi).</p> <p><b>airportConfigSet</b> Contains one or more airportConfig elements.</p> <p><b>airportCapacity</b> Supports legacy EDMS studies relating to content contained in the RUNWAY_CONFIGURATIONS table. This element supports the definition of airport capacities based on various points within an airport.</p>
<p>children</p>	<p><a href="#">airportLayoutName</a> <a href="#">mixingHeight</a> <a href="#">useHourlyMetData</a> <a href="#">averageTemperature</a> <a href="#">dailyHighTemperature</a> <a href="#">dailyLowTemperature</a> <a href="#">pressure</a> <a href="#">pressureMSL</a> <a href="#">humidity</a> <a href="#">windSpeed</a> <a href="#">windDirection</a> <a href="#">ceiling</a> <a href="#">visibility</a> <a href="#">airportConfigSet</a> <a href="#">airportCapacity</a></p>
<p>used by</p>	<p>element <a href="#">scenarioAirportLayoutSet/scenarioAirportLayout</a></p>
<p>annotation</p>	<p>documentation Describes weather conditions.</p>


element **scenarioAirportLayoutType/airportLayoutName**

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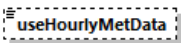


diagram	 Airport layout name.
type	<b>string255</b>
properties	content simple
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Airport layout name.

#### element **scenarioAirportLayoutType/mixingHeight**

diagram	 Height at the top layer of atmosphere where relatively vigorous mixing of pollutants and other gases takes place for the airport in a given month. Varies diurnally and seasonally. (ft)
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Height at the top layer of atmosphere where relatively vigorous mixing of pollutants and other gases takes place for the airport in a given month. Varies diurnally and seasonally. (ft)

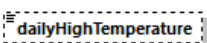
#### element **scenarioAirportLayoutType/useHourlyMetData**

diagram	 If true, use user-defined hourly meteorological data to compute emissions. If false, use default annual averages to compute emissions. (true or false)
type	<b>xs:boolean</b>
properties	minOcc 0 maxOcc 1 content simple default false
annotation	documentation If true, use user-defined hourly meteorological data to compute emissions. If false, use default annual averages to compute emissions. (true or false)

#### element **scenarioAirportLayoutType/averageTemperature**

diagram	 Average temperature (°F).
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average temperature (°F).

#### element **scenarioAirportLayoutType/dailyHighTemperature**

diagram	 Average daily high temperature (°F).
type	<b>xs:double</b>
properties	minOcc 0

	maxOcc 1 content simple default 0
annotation	documentation Average daily high temperature (°F).

element **scenarioAirportLayoutType/dailyLowTemperature**

diagram	 The diagram shows a dashed box containing the text "dailyLowTemperature" in bold. Below it, in smaller text, is "Average daily low temperature (°F)."
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average daily low temperature (°F).

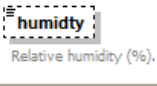
element **scenarioAirportLayoutType/pressure**

diagram	 The diagram shows a dashed box containing the text "pressure" in bold. Below it, in smaller text, is "Average barometric pressure. (in Hg)".
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average barometric pressure. (in Hg)

element **scenarioAirportLayoutType/pressureMSL**

diagram	 The diagram shows a dashed box containing the text "pressureMSL" in bold. Below it, in smaller text, is "Average barometric pressure at mean sea level."
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Average barometric pressure at mean sea level.

element **scenarioAirportLayoutType/humidity**

diagram	 The diagram shows a dashed box containing the text "humidity" in bold. Below it, in smaller text, is "Relative humidity (%)."
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Relative humidity (%).

element **scenarioAirportLayoutType/windSpeed**

diagram	 The diagram shows a dashed box containing the text "windSpeed" in bold. Below it, in smaller text, is "Wind speed at airport surface (mph)."

type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Wind speed at airport surface (mph).

element **scenarioAirportLayoutType/windDirection**

diagram	
type	<b>int0to360</b>
properties	minOcc 0 maxOcc 1 content simple default 1
facets	Kind Value Annotation minInclusive 0 maxExclusive 360
annotation	documentation Wind direction. Valid values: 0-360. (degrees)

element **scenarioAirportLayoutType/ceiling**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Ceiling (ft).

element **scenarioAirportLayoutType/visibility**

diagram	
type	<b>xs:double</b>
properties	minOcc 0 maxOcc 1 content simple default 0
annotation	documentation Visibility (mi).

simpleType **aircraftPerformanceModelType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">scenario/acftPerfModel</a>
facets	Kind Value Annotation enumeration ICAO enumeration SAE1845
annotation	documentation Type of aircraft performance model. Valid values: ICAO, SAE1845.

simpleType **AircraftSizeType**

type	restriction of <b>xs:string</b>
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properties	base xs:string
used by	element <a href="#">runwayAssignment/aircraftSize</a>
facets	Kind Value Annotation enumeration S enumeration L enumeration H
annotation	documentation Aircraft size.

#### simpleType **airframeModel**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraft/airframeModel</a> <a href="#">airframe/model</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Refers to an existing airframe model.

#### simpleType **airportCodeType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	attribute <a href="#">airportCode/@type</a>
facets	Kind Value Annotation enumeration ICAO enumeration IATA enumeration FAA enumeration OTHER enumeration ANY
annotation	documentation The type of an airport code.

#### simpleType **anpAirplaneId**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraftType/anpAircraftId</a> <a href="#">aircraft/anpAirplaneId</a> <a href="#">anpAirplane/anpAirplaneId</a> <a href="#">anpThrustSet/anpAirplaneId</a> <a href="#">anpFlapsSet/anpAirplaneId</a> <a href="#">anpProfileSet/anpAirplaneId</a> <a href="#">energyShare/anpAirplaneId</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of ANP airplane. Must be a new, unique value.

#### simpleType **anpCoeffType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpAirplane/depThrustCoeffType</a>
facets	Kind Value Annotation pattern Jet J Prop P

#### simpleType **anpFlapId**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpFlaps/flapId</a> <a href="#">anpProcedureStep/flapId</a>
facets	Kind Value Annotation minLength 0

	maxLength 6
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#### simpleType **anpHeloDirectId**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpHeloDirectivitySet/anpHelicopterId</a>
facets	Kind Value Annotation minLength 0 maxLength 12

#### simpleType **anpHeloDirectivityId**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpHelicopter/directivityId</a>
facets	Kind Value Annotation minLength 0 maxLength 12

#### simpleType **anpHeloGroundType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpHeloDirectivity/groundType</a>
facets	Kind Value Annotation pattern Hard H Software S File F None N

#### simpleType **anpHeloid**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraft/anpHelicopterId</a> <a href="#">anpHelicopter/anpHelicopterId</a> <a href="#">anpHeloProfileSet/anpHelicopterId</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of the helicopter.

#### simpleType **anpHeloNoiseld**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpHelicopter/noiseld</a> <a href="#">anpHeloNoiseGroup/noiseld</a>
facets	Kind Value Annotation minLength 0 maxLength 255

#### simpleType **anpHeloSideType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpHeloNPDCurve/sideType</a>
facets	Kind Value Annotation pattern Left L Center C Right R Static S

#### simpleType **anpNoiseld**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpNoiseGroup/noiseld</a> <a href="#">anpAirplane/noiseld</a>

facets	Kind Value Annotation minLength 0 maxLength 255
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#### simpleType **anpNpdNoiseType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpNPDCurve/noiseType</a> <a href="#">anpHeloNPDCurve/noiseType</a>
facets	Kind Value Annotation pattern S M E P

#### simpleType **anpNpdOpMode**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpNPDCurve/opMode</a> <a href="#">anpHeloNPDCurve/opMode</a>
facets	Kind Value Annotation pattern A D L G H I J V W Y Z B C E F X S

#### simpleType **anpOwnerType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">anpHelicopter/owner</a> <a href="#">anpAirplane/owner</a>
facets	Kind Value Annotation pattern Commercial C Military M General G

#### simpleType **anpSizeCode**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">anpAirplane/sizeCode</a>
facets	Kind Value Annotation pattern Heavy H Large L Small S

#### simpleType **apuName**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">airframe/auxiliaryPowerUnitId</a> <a href="#">auxiliaryPowerUnit/baseAuxiliaryPowerUnit</a> <a href="#">auxiliaryPowerUnit/name</a>
facets	Kind Value Annotation minLength 0 maxLength 30
annotation	documentation Name of the auxiliary power unit.

#### simpleType **badaAirplaneId**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraft/badaAirplaneId</a> <a href="#">badaAirplane/badaAirplaneId</a> <a href="#">badaAltitudeDistributionSet/badaAirplaneId</a> <a href="#">badaProfileSet/badaAirplaneId</a> <a href="#">badaConfigSet/badaAirplaneId</a> <a href="#">badaFuel/badaAirplaneId</a> <a href="#">badaThrust/badaAirplaneId</a> <a href="#">energyShare/badaAirplaneId</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation ID of a BADA airplane model. Must be unique.

#### simpleType **badaPhaseType**

type	restriction of <b>xs:string</b>
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properties	base xs:string
used by	element <a href="#">badaConfig/phase</a>
facets	Kind Value Annotation pattern InitialClimb C Takeoff TO Approach AP Landing LD Cruise CR

#### simpleType **badaWakeType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">badaAirplane/wakeCategory</a>
facets	Kind Value Annotation pattern Heavy H Light L Medium M SuperHeavy I

#### simpleType **directionType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">taxipath/direction</a>
facets	Kind Value Annotation pattern A Arrival D Departure I Inbound O Outbound
annotation	documentation Supports the direction type of a taxi path. Direction type can be either arrival, departure, inbound, or outbound.

#### simpleType **doubleExclusive0Inclusive10**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">pointStationarySource/stackDiameter</a>
facets	Kind Value Annotation maxInclusive 10 minExclusive 0
annotation	documentation A double value in the range (0,10).

#### simpleType **doubleExclusive10**

type	restriction of <b>xs:double</b>
properties	base xs:double
facets	Kind Value Annotation minInclusive 0 maxExclusive 10
annotation	documentation A double value in the range [0,10).

#### simpleType **doubleExclusive100**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">taxiway/dispersionWidth</a> <a href="#">categorySandSaltPile/fastestMileOfWind</a> <a href="#">categorySandSaltPile/frictionVelocity</a> <a href="#">categoryBoilerHeater/fuelAshContent</a> <a href="#">categoryBoilerHeater/fuelSulfurContent</a> <a href="#">categoryGenerator/fuelSulfurContent</a> <a href="#">airportConfig/maxWindSpeed</a> <a href="#">categoryFuelTank/verticalTank/meanWindSpeed</a> <a href="#">categorySandSaltPile/meanWindSpeed</a> <a href="#">airportConfig/minWindSpeed</a> <a href="#">categoryDeicingArea/solutionConcentrationPercent</a>
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation A double value in the range [0,100).

#### simpleType **doubleExclusive1000**

type	restriction of <b>xs:double</b>
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properties	base xs:double
used by	elements <a href="#">categoryFuelTank/verticalTank/averageSolutionLevel</a> <a href="#">categoryBoilerHeater/fuelCalciumSulfurRatio</a> <a href="#">categorySandSaltPile/massDisturbedPerDisturbance</a> <a href="#">categoryFuelTank/verticalTank/maximumSolutionLevel</a> <a href="#">categoryFuelTank/tankDiameter</a> <a href="#">categoryFuelTank/verticalTank/tankHeight</a> <a href="#">categoryFuelTank/horizontalTank/tankLength</a> <a href="#">categoryAircraftEngine/timePercentPower100</a> <a href="#">categoryAircraftEngine/timePercentPower30</a> <a href="#">categoryAircraftEngine/timePercentPower7</a> <a href="#">categoryAircraftEngine/timePercentPower85</a>
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation A double value in the range [0,1000).

#### simpleType **doubleExclusive10000**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">categorySandSaltPile/erodedSurfaceArea</a>
facets	Kind Value Annotation minInclusive 0 maxExclusive 10000
annotation	documentation A double value in the range [0,10000).

#### simpleType **doubleExclusive2000**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">categoryDeicingArea/ethyleneGlycolDensity</a> <a href="#">categoryDeicingArea/propyleneGlycolDensity</a> <a href="#">categorySolventDegreaser/solutionDensity</a>
facets	Kind Value Annotation minInclusive 0 maxExclusive 2000
annotation	documentation A double value in the range [0,2000).

#### simpleType **doubleExclusiveRange100**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">categorySandSaltPile/moistureContent</a> <a href="#">categorySandSaltPile/surfaceRoughness</a>
facets	Kind Value Annotation minExclusive 0 maxExclusive 100
annotation	documentation A double value in the range (0,100).

#### simpleType **doubleInclusive1**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">userGroundSupportEquipment/defaultLoadFactor</a> <a href="#">groundSupportEquipmentGateAssignment/fractionAssigned</a> <a href="#">categoryBoilerHeater/pm25ToPm10Ratio</a> <a href="#">categoryGenerator/pm25ToPm10Ratio</a> <a href="#">categoryIncinerator/pm25ToPm10Ratio</a> <a href="#">categoryOther/pm25ToPm10Ratio</a> <a href="#">categorySandSaltPile/surfaceWindSpeedFraction</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation A double value in the range [0,1).

#### simpleType **doubleInclusive100**

type	restriction of <b>xs:double</b>
properties	base xs:double



used by	elements <a href="#">runwayAssignment/arrivalPercentage</a> <a href="#">runwayAssignment/departurePercentage</a> <a href="#">categoryBoilerHeater/pollutionControlFactorCO</a> <a href="#">categoryGenerator/pollutionControlFactorCO</a> <a href="#">categoryIncinerator/pollutionControlFactorCO</a> <a href="#">categoryOther/pollutionControlFactorCO</a> <a href="#">categoryBoilerHeater/pollutionControlFactorHC</a> <a href="#">categoryOther/pollutionControlFactorHC</a> <a href="#">categoryBoilerHeater/pollutionControlFactorNOx</a> <a href="#">categoryGenerator/pollutionControlFactorNOx</a> <a href="#">categoryIncinerator/pollutionControlFactorNOx</a> <a href="#">categoryOther/pollutionControlFactorNOx</a> <a href="#">categoryBoilerHeater/pollutionControlFactorPM10</a> <a href="#">categoryGenerator/pollutionControlFactorPM10</a> <a href="#">categoryIncinerator/pollutionControlFactorPM10</a> <a href="#">categoryOther/pollutionControlFactorPM10</a> <a href="#">categoryBoilerHeater/pollutionControlFactorSOx</a> <a href="#">categoryGenerator/pollutionControlFactorSOx</a> <a href="#">categoryIncinerator/pollutionControlFactorSOx</a> <a href="#">categoryBoilerHeater/pollutionControlFactorSOx</a> <a href="#">categoryBoilerHeater/pollutionControlFactorTNMOC</a> <a href="#">categoryBoilerHeater/pollutionControlFactorTOC</a> <a href="#">categoryGenerator/pollutionControlFactorTOC</a> <a href="#">categoryBoilerHeater/pollutionControlFactorVOC</a> <a href="#">categoryGenerator/pollutionControlFactorVOC</a> <a href="#">categoryIncinerator/pollutionControlFactorVOC</a> <a href="#">categorySurfaceCoatingPainting/pollutionControlFactorVOC</a> <a href="#">pointStationarySource/releaseHeight</a> <a href="#">areaStationarySource/releaseHeight</a> <a href="#">volumeStationarySource/releaseHeight</a> <a href="#">runwayAssignment/tgoPercentage</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation A double value in the range [0,100].

#### simpleType **doubleInclusive1000**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">categoryBoilerHeater/ashTermPm10</a> <a href="#">categoryGenerator/CO</a> <a href="#">EF</a> <a href="#">categoryBoilerHeater/CO</a> <a href="#">EI</a> <a href="#">categoryOther/CO</a> <a href="#">EI</a> <a href="#">categoryGenerator/CO</a> <a href="#">EI</a> <a href="#">categoryIncinerator/CO</a> <a href="#">EI</a> <a href="#">categoryBoilerHeater/constantTermPm10</a> <a href="#">categoryBoilerHeater/constantTermSOx</a> <a href="#">categoryGenerator/NOx</a> <a href="#">EF</a> <a href="#">categoryBoilerHeater/NOx</a> <a href="#">EI</a> <a href="#">categoryIncinerator/NOx</a> <a href="#">EI</a> <a href="#">categoryGenerator/NOx</a> <a href="#">EI</a> <a href="#">categoryOther/NOx</a> <a href="#">EI</a> <a href="#">categoryGenerator/PM10</a> <a href="#">EF</a> <a href="#">categoryGenerator/PM10</a> <a href="#">EI</a> <a href="#">categoryIncinerator/PM10</a> <a href="#">EI</a> <a href="#">categoryOther/PM10</a> <a href="#">EI</a> <a href="#">categoryGenerator/SOx</a> <a href="#">EF</a> <a href="#">categoryGenerator/SOx</a> <a href="#">EI</a> <a href="#">categoryIncinerator/SOx</a> <a href="#">EI</a> <a href="#">categoryOther/SOx</a> <a href="#">EI</a> <a href="#">categoryBoilerHeater/sulfurTermPm10</a> <a href="#">categoryBoilerHeater/sulfurTermSOx</a> <a href="#">categoryBoilerHeater/THC</a> <a href="#">EI</a> <a href="#">categoryOther/THC</a> <a href="#">EI</a> <a href="#">categoryBoilerHeater/TNMOC</a> <a href="#">EI</a> <a href="#">categoryGenerator/TOC</a> <a href="#">EF</a> <a href="#">categoryBoilerHeater/TOC</a> <a href="#">EI</a> <a href="#">categoryBoilerHeater/VOC</a> <a href="#">EI</a> <a href="#">categoryGenerator/VOC</a> <a href="#">EI</a> <a href="#">categoryIncinerator/VOC</a> <a href="#">EI</a> <a href="#">categorySurfaceCoatingPainting/VOC</a> <a href="#">EI</a> <a href="#">categoryDeicingArea/VOC</a> <a href="#">EI</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation A double value in the range [0,1000].

#### simpleType **doubleInclusive10000**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">categoryGenerator/powerRatingHorsepower</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 10000
annotation	documentation A double value in the range [0,10000].

#### simpleType **doubleInclusive2000**

type	restriction of <b>xs:double</b>
properties	base xs:double
facets	Kind Value Annotation minInclusive 0 maxInclusive 2000
annotation	documentation A double value in the range [0,2000].

#### simpleType **doubleInclusive24**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">airportConfig/endHour</a> <a href="#">airportConfig/startHour</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 24
annotation	documentation A double value in the range [0,24].

simpleType **doubleInclusive4000**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">roadwayOperation/roundTripDistance</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 4000
annotation	documentation A double value in the range [0,4000].

simpleType **doubleInclusiveRange0to600**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">pointStationarySource/temperature</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 600
annotation	documentation A double value in the range [0,600].

simpleType **doubleInclusiveRange1to30**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	element <a href="#">pointStationarySource/gasVelocity</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 30
annotation	documentation A double value in the range [1,30].

simpleType **doubleMin0**

type	restriction of <b>xs:double</b>
properties	base xs:double
used by	elements <a href="#">quarterHourlyProfile/temporalFactor</a> <a href="#">monthlyProfile/temporalFactorApril</a> <a href="#">monthlyProfile/temporalFactorAugust</a> <a href="#">monthlyProfile/temporalFactorDecember</a> <a href="#">monthlyProfile/temporalFactorFebruary</a> <a href="#">dailyProfile/temporalFactorFriday</a> <a href="#">monthlyProfile/temporalFactorJanuary</a> <a href="#">monthlyProfile/temporalFactorJuly</a> <a href="#">monthlyProfile/temporalFactorJune</a> <a href="#">monthlyProfile/temporalFactorMarch</a> <a href="#">monthlyProfile/temporalFactorMay</a> <a href="#">dailyProfile/temporalFactorMonday</a> <a href="#">monthlyProfile/temporalFactorNovember</a> <a href="#">monthlyProfile/temporalFactorOctober</a> <a href="#">dailyProfile/temporalFactorSaturday</a> <a href="#">monthlyProfile/temporalFactorSeptember</a> <a href="#">dailyProfile/temporalFactorSunday</a> <a href="#">dailyProfile/temporalFactorThursday</a> <a href="#">dailyProfile/temporalFactorTuesday</a> <a href="#">dailyProfile/temporalFactorWednesday</a>
facets	Kind Value Annotation minInclusive 0
annotation	documentation A double value with a lower inclusive bound of 0.

simpleType **emissionsSourceType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">case/source</a>
facets	Kind Value Annotation enumeration Container enumeration Aircraft enumeration GSE Population enumeration Parking Facilities enumeration Roadways enumeration Stationary Sources
annotation	documentation

	Source of emissions.
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#### simpleType **emissionsUnitsType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">study/emissionsUnits</a>
facets	Kind Value Annotation enumeration MetricTonnes enumeration Kilograms enumeration Grams enumeration ImperialTons enumeration Pounds
annotation	documentation Unit of measure for a given emission.

#### simpleType **empty-string**

type	restriction of <b>xs:string</b>
properties	base xs:string
facets	Kind Value Annotation enumeration

#### simpleType **engineCode**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraftEngine/code</a> <a href="#">aircraft/engineCode</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation Code for an airframe's engine.

#### simpleType **engineModCode**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraftEngineMod/code</a> <a href="#">aircraftType/engineModCode</a> <a href="#">aircraft/engineModCode</a>
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation Airplane's engine modification code.

#### simpleType **engineModel**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">aircraftEngine/model</a>
facets	Kind Value Annotation minLength 0 maxLength 255

#### simpleType **engineType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraftEngine/engineType</a> <a href="#">anpHelicopter/engineTypeCode</a> <a href="#">anpAirplane/engineTypeCode</a> <a href="#">badaAirplane/engineTypeCode</a>
facets	Kind Value Annotation pattern Jet J Turbo Turboprop T Prop Piston P

annotation	documentation Type of engine on this airframe. Valid values: E (Electric), J (Jet), P (Piston), T (Turboprop).
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simpleType **floatExclusive0Inclusive10**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 10 minExclusive 0
annotation	documentation A real number in the range (0,10).

simpleType **floatExclusive10**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxExclusive 10
annotation	documentation A real number in the range [0,10).

simpleType **floatExclusive100**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxExclusive 100
annotation	documentation A real number in the range [0,100).

simpleType **floatExclusive1000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxExclusive 1000
annotation	documentation A real number in the range [0,1,000).

simpleType **floatExclusive10000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxExclusive 10000
annotation	documentation A real number in the range [0,10,000).

simpleType **floatExclusive2000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxExclusive 2000
annotation	documentation A real number in the range [0,2,000).

simpleType **floatExclusiveRange100**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minExclusive 0 maxExclusive 100
annotation	documentation A real number in the range (0,100).

simpleType **floatInclusive1**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 1
annotation	documentation A real number in the range [0,1].

simpleType **floatInclusive100**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 100
annotation	documentation A real number in the range [0,100].

simpleType **floatInclusive1000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 1000
annotation	documentation A real number in the range [0,1,000].

simpleType **floatInclusive10000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 10000
annotation	documentation A real number in the range [0,10,000].

simpleType **floatInclusive2000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 2000
annotation	documentation A real number in the range [0,2,000].

simpleType **floatInclusive24**

type	restriction of <b>xs:float</b>
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properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 24
annotation	documentation A real number in the range [0,24].

#### simpleType **floatInclusive4000**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 0 maxInclusive 4000
annotation	documentation A real number in the range [0,4,000].

#### simpleType **floatInclusiveRange1to30**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 1 maxInclusive 30
annotation	documentation A real number in the range [1,30].

#### simpleType **floatInclusiveRange32to600**

type	restriction of <b>xs:float</b>
properties	base xs:float
facets	Kind Value Annotation minInclusive 32 maxInclusive 600
annotation	documentation A real number in the range [32,600].

#### simpleType **fuelType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">parkingFacilityOperation/fuelType</a> <a href="#">roadwayOperation/fuelType</a> <a href="#">groundSupportEquipmentPopulationOperation/fuelType</a> <a href="#">groundSupportEquipmentLTOOperation/fuelType</a>
facets	Kind Value Annotation pattern G[Gasoline]D[Diesel]C[Compressed Natural Gas]L[Liquefied Petroleum Gas]E[Electric]
annotation	documentation Supports legacy EDMS studies relating to content that contains different types of fuel use. Fuel types can be based on either gasoline, diesel, compressed natural gas, liquid propane gas, or electric based.

#### simpleType **groundVehicleType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">parkingFacilityOperation/vehicleType</a> <a href="#">roadwayOperation/vehicleType</a>
facets	Kind Value Annotation pattern 0[Default Fleet Mix]1[Passenger Cars]2[Light Trucks 1]3[Light Trucks 2]4[Light Trucks 3]5[Light Trucks 4]6[Class 2b Heavy Trucks]7[Class 3 Heavy Trucks]8[Class 4 Heavy Trucks]9[Class 5 Heavy Trucks]10[Class 6 Heavy Trucks]11[Class 7 Heavy Trucks]12[Class 8a Heavy Trucks]13[Class 8b Heavy Trucks]14[School Busses]15[Transit and Urban Busses]16[Motorcycle]
annotation	documentation Supports legacy EDMS studies relating to the use of ground vehicles.Ground vehicle types can range from fleet mixes, passenger cars, and various light or heavy trucks.

simpleType **int0to23**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	attribute <a href="#">quarterHourlyProfile/temporalFactor/@startHour</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 23
annotation	documentation An integer in the range [0,23].

simpleType **int0to360**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	elements <a href="#">airportConfig/endWindAngle</a> <a href="#">airportConfig/startWindAngle</a> <a href="#">scenarioAirportLayoutType/windDirection</a>
facets	Kind Value Annotation minInclusive 0 maxExclusive 360
annotation	documentation An integer in the range [0,360].

simpleType **int0to5**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categoryOther/fuelUnits</a>
facets	Kind Value Annotation minInclusive 0 maxInclusive 5
annotation	documentation An integer in the range [0,5].

simpleType **int0to87**

type	restriction of <b>xs:int</b>
properties	base xs:int
facets	Kind Value Annotation minInclusive 0 maxInclusive 87
annotation	documentation An integer in the range [0,87].

simpleType **int1to13**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categorySolventDegreaser/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 13
annotation	documentation An integer in the range [1,13].

simpleType **int1to15**

type	restriction of <b>xs:int</b>
properties	base xs:int
facets	Kind Value Annotation minInclusive 1 maxInclusive 15

annotation	documentation An integer in the range [1,15].
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#### simpleType **int1to2**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categoryIncinerator/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 2
annotation	documentation An integer in the range [1,2].

#### simpleType **int1to25**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categoryFuelTank/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 25
annotation	documentation An integer in the range [1,25].

#### simpleType **int1to4**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categoryDeicingArea/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 4
annotation	documentation An integer in the range [1,4].

#### simpleType **int1to5**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	elements <a href="#">categorySandSaltPile/typeCode</a> <a href="#">categoryTrainingFire/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 5
annotation	documentation An integer in the range [1,5].

#### simpleType **int1to8**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	elements <a href="#">categoryGenerator/typeCode</a> <a href="#">categorySurfaceCoatingPainting/typeCode</a>
facets	Kind Value Annotation minInclusive 1 maxInclusive 8
annotation	documentation An integer in the range [1,8].

#### simpleType **int1to93**

type	restriction of <b>xs:int</b>
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properties	base xs:int
facets	Kind Value Annotation minInclusive 1 maxInclusive 93
annotation	documentation An integer in the range [1,93].

#### simpleType **int5to65**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">roadwayOperation/speed</a>
facets	Kind Value Annotation minInclusive 5 maxInclusive 65
annotation	documentation An integer in the range [5,65].

#### simpleType **int6to13**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	element <a href="#">categoryFuelTank/reidVaporPressure</a>
facets	Kind Value Annotation minInclusive 6 maxInclusive 13
annotation	documentation An integer in the range [6,13].

#### simpleType **int89to148**

type	restriction of <b>xs:int</b>
properties	base xs:int
facets	Kind Value Annotation minInclusive 89 maxInclusive 148
annotation	documentation An integer in the range [89,148].

#### simpleType **latitudeDMSType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">latlonCoordGroup/latitudeDMS</a>
facets	Kind Value Annotation pattern [0-9]{2}[\- _ &quot;][0-9]{2}[\- _ &apos;][0-9]{2}(\.[0-9]{3})?[Nn Ss]
annotation	documentation Latitude expressed as dd"mm'sss with optional indicator N, n, S, s. (degrees)

#### simpleType **longitudeDMSType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">latlonCoordGroup/longitudeDMS</a>
facets	Kind Value Annotation pattern [0-9]{2}[0-9]{2}[\- _ &quot;][0-9]{2}[\- _ &apos;][0-9]{2}(\.[0-9]{3})?[Ee Ww]
annotation	documentation Longitude expressed as dd"mm'sss with optional indicator N, n, S, s. (degrees)

#### simpleType **nodeControlType**

--	--

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	attributes <a href="#">trackNode/altitude/@control</a> <a href="#">trackNode/speed/@control</a>
facets	Kind Value Annotation pattern 0 None 1 AtOrBelow 2 Match 3 AtOrAbove
annotation	documentation Type of altitude clearance at this point.

#### simpleType **opType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">operation/opType</a>
facets	Kind Value Annotation pattern A Arrival D Departure V Overflight F Circuit T TouchAndGo R Runup W RunwayToRunway L LTO LandingTakoff X Taxi
annotation	documentation Type of operation.

#### simpleType **originSourceType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">polarGrid/originSource</a> <a href="#">polarReceptor/originSource</a>
facets	Kind Value Annotation pattern Gate Parking Facility Roadway Runway Stionary Source Taxiway Training Fire
annotation	documentation Supports the polarReceptor source type. Original source type can be either gate, parking facility, roadway, runway, stationary source, taxiway, and training fire.

#### simpleType **profileType**

type	<a href="#">string255</a>
properties	base string255
used by	elements <a href="#">profiles/arrivalProfile</a> <a href="#">operation/badaProfile</a> <a href="#">profiles/departureProfile</a> <a href="#">operation/saeProfile</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation An aircraft's flight profile.

#### simpleType **quarterHourMinutes**

type	restriction of <b>xs:int</b>
properties	base xs:int
used by	attribute <a href="#">quarterHourlyProfile/temporalFactor/@startMinutes</a>
facets	Kind Value Annotation enumeration 0 enumeration 15 enumeration 30 enumeration 45
annotation	documentation Either 0, 15, 30, or 45.

#### simpleType **string1**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">operation/arrivalStageLength</a> <a href="#">operation/departureStageLength</a> <a href="#">airframe/designationCode</a> <a href="#">airframe/engineLocation</a> <a href="#">airframe/engineType</a> <a href="#">anpTsfcCoefficients/mode</a> <a href="#">anpNoiseGroup/modelType</a> <a href="#">anpHelicopter/modelType</a> <a href="#">anpHeloProfile/operationType</a> <a href="#">anpHeloProcedureStep/operationType</a> <a href="#">anpFlaps/operationType</a> <a href="#">anpProfile/operationType</a> <a href="#">anpHeloDirectivity/opMode</a> <a href="#">anpProfilePoint/opMode</a> <a href="#">anpHeloProfile/profileStageLength</a> <a href="#">anpHeloProcedureStep/profileStageLength</a> <a href="#">anpProfile/profileStageLength</a> <a href="#">airframe/sizeCode</a> <a href="#">operation/stageLength</a> <a href="#">anpHeloProcedureStep/stepType</a>

	<a href="#">anpProcedureStep/stepType</a> <a href="#">anpNoiseGroup/thrustSetType</a> <a href="#">anpThrustGeneral/thrustType</a> <a href="#">anpThrustJet/thrustType</a> <a href="#">anpThrustProp/thrustType</a> <a href="#">anpProcedureStep/thrustType</a> <a href="#">airframe/usageCode</a>
facets	Kind Value Annotation minLength 0 maxLength 1
annotation	documentation A string up to one character long.

#### simpleType **string10**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">badaConfig/configName</a> <a href="#">aircraftEngine/superseded</a>
facets	Kind Value Annotation minLength 0 maxLength 10
annotation	documentation A string up to 10 characters long.

#### simpleType **string100**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">operation/activityProfile</a> <a href="#">airportConfig/configurationName</a> <a href="#">activityProfile/dailyProfile</a> <a href="#">aircraftEngine/manufacturer</a> <a href="#">activityProfile/monthlyProfile</a> <a href="#">airport/name</a> <a href="#">quarterHourlyProfile/profileName</a> <a href="#">dailyProfile/profileName</a> <a href="#">monthlyProfile/profileName</a> <a href="#">activityProfile/quarterHourlyProfile</a> <a href="#">aircraftEngine/source</a> <a href="#">airport/zone</a> attribute <a href="#">activityProfile/@name</a>
facets	Kind Value Annotation minLength 0 maxLength 100
annotation	documentation A string up to 100 characters long.

#### simpleType **string11**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">windRoseStation/calmCriteria</a> <a href="#">windRoseStation/endDayMonth</a> <a href="#">windRoseStation/userString</a>
facets	Kind Value Annotation minLength 0 maxLength 11

#### simpleType **string12**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">badaProfile/aircraftVersion</a> <a href="#">windRoseStation/beginDayMonth</a> <a href="#">badaProfile/engine</a> <a href="#">operation/userType</a>
facets	Kind Value Annotation minLength 0 maxLength 12
annotation	documentation A string up to 12 characters long.

#### simpleType **string14**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">windRoseData/directionRange</a>
facets	Kind Value Annotation minLength 0 maxLength 14

simpleType **string15**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">badaProfile/companyName</a> <a href="#">airport/faald</a>
facets	Kind Value Annotation minLength 0 maxLength 15
annotation	documentation A string up to 15 characters long.

simpleType **string16**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">nodeldGroup/description</a> <a href="#">operation/flightNumber</a> <a href="#">runup/flightNumber</a> <a href="#">case/hourlyWxMDS</a> <a href="#">operation/id</a> <a href="#">runup/id</a> <a href="#">nodeldGroup/id</a> <a href="#">operation/userParam</a> attribute <a href="#">AsifXml/@version</a>
facets	Kind Value Annotation minLength 0 maxLength 16
annotation	documentation A string up to 16 characters long.

simpleType **string2**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">badaProfile/companyCode2</a> <a href="#">airframe/euroGroupCode</a> <a href="#">badaProfile/massRangeValue</a>
facets	Kind Value Annotation minLength 0 maxLength 2
annotation	documentation A string up to two characters long.

simpleType **string20**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">groundSupportEquipmentGateAssignment/gate</a> <a href="#">taxiway/name</a> <a href="#">taxipath/taxiwayName</a>
facets	Kind Value Annotation minLength 0 maxLength 20
annotation	documentation A string up to 20 characters long.

simpleType **string200**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">aircraftEngine/notes</a>
facets	Kind Value Annotation minLength 0 maxLength 200
annotation	documentation A string up to 200 characters long.

simpleType **string25**

type	restriction of <b>xs:string</b>
properties	base xs:string

used by	elements <a href="#">aircraftEngine/emissionsEngineModel</a> <a href="#">aircraftType/engineCode</a> <a href="#">airport/facilityType</a> <a href="#">aircraftEngine/performanceEngineModel</a> <a href="#">airportWeatherStation/weatherStationName</a>
facets	Kind Value Annotation minLength 0 maxLength 25
annotation	documentation A string up to 25 characters long.

#### simpleType **string255**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">trackref/airportLayoutName</a> <a href="#">scenarioAirportLayoutType/airportLayoutName</a> <a href="#">study/description</a> <a href="#">scenario/description</a> <a href="#">case/description</a> <a href="#">aircraft/description</a> <a href="#">aircraftEngineMod/description</a> <a href="#">anpHelicopter/description</a> <a href="#">anpAirplane/description</a> <a href="#">categoryAircraftEngine/engineCode</a> <a href="#">case/hourlyWxFile</a> <a href="#">badaAirplane/mfgDescription</a> <a href="#">study/name</a> <a href="#">scenario/name</a> <a href="#">case/name</a> <a href="#">annualization/name</a> <a href="#">annualizationCase/name</a> <a href="#">building/name</a> <a href="#">receptorSet/name</a> <a href="#">pointReceptor/name</a> <a href="#">airportLayoutType/name</a> <a href="#">badaThrust/notes</a> <a href="#">anpHeloProfile/profileGroupIId</a> <a href="#">anpHeloProcedureStep/profileGroupIId</a> <a href="#">anpProfile/profileGroupIId</a> <a href="#">case/reference/refCase</a> <a href="#">case/reference/refScenario</a> <a href="#">sensorNode/source</a> <a href="#">study/terrainFiles</a> <a href="#">trackref/trackName</a> simpleType <a href="#">profileType</a>
facets	Kind Value Annotation minLength 0 maxLength 255
annotation	documentation A string up to 255 characters long.

#### simpleType **string3**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">badaProfile/companyCode1</a> <a href="#">weatherData/month</a> attribute <a href="#">airportCode/@country</a>
facets	Kind Value Annotation minLength 0 maxLength 3
annotation	documentation A string up to three characters long.

#### simpleType **string30**

type	restriction of <b>xs:string</b>
properties	base xs:string
facets	Kind Value Annotation minLength 0 maxLength 30
annotation	documentation A string up to 30 characters long.

#### simpleType **string32**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">windRoseStation/windRoseDataSource</a>
facets	Kind Value Annotation minLength 0 maxLength 32

#### simpleType **string4**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">operation/carrier</a> complexType <a href="#">airportCode</a>
facets	Kind Value Annotation

	minLength 0 maxLength 4
annotation	documentation A string up to four characters long.

#### simpleType **string40**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">groundSupportEquipmentPopulationOperation/activityProfile</a> <a href="#">emissionsUsage/activityProfile</a> <a href="#">operation/arrivalGate</a> <a href="#">operation/departureGate</a> <a href="#">taxipath/gateName</a> <a href="#">userGroundSupportEquipment/gseName</a> <a href="#">gate/name</a> <a href="#">stationarySource/name</a> <a href="#">parkingFacility/name</a> <a href="#">roadway/name</a> <a href="#">polarGrid/originName</a> <a href="#">polarReceptor/originName</a> <a href="#">stationarySourceOperation/refName</a> <a href="#">parkingFacilityOperation/refName</a> <a href="#">roadwayOperation/refName</a>
facets	Kind Value Annotation minLength 0 maxLength 40
annotation	documentation A string up to 40 characters long.

#### simpleType **string42**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">windRoseStation/windRoseStationDescription</a>
facets	Kind Value Annotation minLength 0 maxLength 42

#### simpleType **string5**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">airportWeatherStation/wbanId</a> <a href="#">airportWeatherStation/weatherStationCode</a> <a href="#">windRose/windRoseStationId</a> <a href="#">windRoseStation/windRoseStationId</a>
facets	Kind Value Annotation minLength 0 maxLength 5

#### simpleType **string50**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">aircraftType/airframeModel</a> <a href="#">airport/cityName</a> <a href="#">aircraftEngine/combustor</a> <a href="#">airport/state</a> <a href="#">aircraftEngine/tfmtFlag</a>
facets	Kind Value Annotation minLength 0 maxLength 50
annotation	documentation A string up to 50 characters long.

#### simpleType **string6**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">centroid/bnald</a> <a href="#">airportWeatherStation/cooperativeld</a> <a href="#">taxiTime/source</a>
facets	Kind Value Annotation minLength 0 maxLength 6
annotation	documentation A string up to six characters long.

#### simpleType **string64**

type	restriction of <b>xs:string</b>
properties	base xs:string

used by	element <a href="#">track/name</a>
facets	Kind Value Annotation minLength 0 maxLength 64
annotation	documentation A string up to 64 characters long.

#### simpleType **string66**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">windRoseStation/windRoseDataSet</a>
facets	Kind Value Annotation minLength 0 maxLength 66

#### simpleType **string7**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">airport/dafid</a>
facets	Kind Value Annotation minLength 0 maxLength 7

#### simpleType **string8**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">operation/arrivalRunway case/climateId</a> <a href="#">operation/departureRunway climate/identifier</a> <a href="#">runwayEnd/name trackref/runway track/runway</a> <a href="#">runwayAssignment/runway taxiPath/runwayName</a> <a href="#">operation/tailNumber</a> <a href="#">runup/tailNumber</a>
facets	Kind Value Annotation minLength 0 maxLength 8
annotation	documentation A string up to eight characters long.

#### simpleType **string9**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">windRoseStation/directionUnit</a>
facets	Kind Value Annotation minLength 0 maxLength 9

#### simpleType **studyType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">study/studyType</a>
facets	Kind Value Annotation enumeration Emissions enumeration Dispersion enumeration Noise and Emissions enumeration Noise and Dispersion
annotation	documentation Type of study. NOTE: AEDT only supports the Noise and Emissions value.

#### simpleType **taxiModelType**

type	restriction of <b>xs:string</b>
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properties	base xs:string
used by	element <a href="#">scenario/taxiModel</a>
facets	Kind Value Annotation enumeration UserSpecified enumeration Delayed enumeration Sequencing
annotation	documentation Type of taxi modeling.

#### simpleType **timeInModeBasisType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">scenario/timeInModeBasis</a>
facets	Kind Value Annotation enumeration Performance enumeration ICAO
annotation	documentation Time in mode can either be based on ICAO or performance.

#### simpleType **trackType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	elements <a href="#">trackref/optype</a> <a href="#">track/optype</a>
facets	Kind Value Annotation pattern A Arrival D Departure V Overflight T TouchAndGo X ArrivalHeliTaxi O DepartureHeliTaxi
annotation	documentation Type of track.

#### simpleType **trainingFireFuelType**

type	restriction of <b>xs:string</b>
properties	base xs:string
facets	Kind Value Annotation pattern JP-4 JP-5 JP-8 Propane Tekflame
annotation	documentation Supports legacy EDMS studies relating to training fire content. Training fire fuel types can be either JP-4, JP-5, JP-8, propane, or tekflame.

#### simpleType **vectorTrackType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">trackVector/type</a>
facets	Kind Value Annotation pattern S Straight L LeftTurn R RightTurn
annotation	documentation Type of vector.

#### simpleType **wingType**

type	restriction of <b>xs:string</b>
properties	base xs:string
used by	element <a href="#">track/wingtype</a>
facets	Kind Value Annotation pattern F FixedWing R RotaryWing
annotation	documentation Type of wing. If not specified, AEDT attempts to determine the wing type based on the optype.

#### simpleType **yesNoType**

properties	base xs:string
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type	restriction of <b>xs:string</b>						
properties	base xs:string						
used by	elements <a href="#">anpHelicopter/hasWheels</a> <a href="#">anpAirplane/thrustRestore</a> <a href="#">anpHeloProfile/useDirectivity</a> <a href="#">anpHeloProfile/useTrack</a>						
facets	<table border="1"> <thead> <tr> <th>Kind</th> <th>Value</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>pattern</td> <td>Yes Y No N</td> <td></td> </tr> </tbody> </table>	Kind	Value	Annotation	pattern	Yes Y No N	
Kind	Value	Annotation					
pattern	Yes Y No N						
annotation	documentation Simple element allowing for either a choice of "yes" or "no".						