



Federal Aviation  
Administration

# FEDERAL AVIATION ADMINISTRATION

OE/AAA<sup>®</sup> Obstruction Evaluation / Airport Airspace Analysis

## WEB APPLICATION PROGRAMMING INTERFACE (API) RESTFUL SERVICES

### USER GUIDE

All references to software products remain the protected trademarks of their manufacturers. The instructions in this document may reference Microsoft application(s). This is not meant in any way to express a preference for any particular product since there are many different browsers, programs, and operating systems available to the user. For simplicity only popular brand/products are used in the examples that follow.



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Version Control Table

| Version No. | Date       | Purpose / Changes                | Author                |
|-------------|------------|----------------------------------|-----------------------|
| 2011.2.0    | 09/29/2011 | First version                    | CGH Technologies Inc. |
| 2012.1.0    | 03/29/2012 | Typographical update             | CGH Technologies Inc. |
| 2012.2.0    | 06/28/2012 | Web Service to MCAT              | CGH Technologies Inc. |
| 2012.4.0    | 01/03/2013 | Added Glossary Statement         | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added Web Service for USAF & DHS | CGH Technologies Inc. |
| 2014.1.0    | 01/30/2014 | MCAT Data Changes                | CGH Technologies Inc. |
| 2014.3.0    | 08/01/2014 | Document Revision Changes        | CGH Technologies Inc. |
| 2016.1.0    | 04/21/2016 | Revised Web Services Glossary    | CGH Technologies Inc. |
| 2018.2.0    | 12/08/2018 | Document Revision Changes        | CGH Technologies Inc. |
| 2020-DEC.2  | 01/12/2021 | Document Revision Changes        | CGH Technologies Inc. |
| 2021-SEP    | 09/30/2021 | Document Revision Changes        | CGH Technologies Inc. |
| 2022-AUG    | 08/18/2022 | Document Revision Changes        | CGH Technologies Inc. |

Change Control Table

| Version No. | Date       | Purpose / Changes                              | Author                |
|-------------|------------|--|-----------------------|
| 2012.1.0    | 03/29/2012 | Authenticated FAA Access                       | CGH Technologies Inc. |
| 2012.2.0    | 06/28/2012 | Web Service to MCAT                            | CGH Technologies Inc. |
| 2012.4.0    | 01/03/2013 | Added Glossary Statement                       | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added Permission Based Security Access         | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added DHS Web Service                          | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added USAF Web Service                         | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added Date Transmitted to MCAT                 | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added Project Name to MCAT                     | CGH Technologies Inc. |
| 2013.1.0    | 03/28/2013 | Added OSD Division Response Data               | CGH Technologies Inc. |
| 2014.1.0    | 01/09/2014 | Typographical and format updates               | CGH Technologies Inc. |
| 2014.1.0    | 01/30/2014 | Added New Data Fields to MCAT                  | CGH Technologies Inc. |
| 2014.3.0    | 08/01/2014 | Removed Authenticated Web Services             | CGH Technologies Inc. |
| 2014.3.0    | 08/01/2014 | Added Authenticated login Verbiage             | CGH Technologies Inc. |
| 2014.3.0    | 08/01/2014 | Revised Web Services Glossary                  | CGH Technologies Inc. |
| 2016.1.0    | 04/21/2016 | Revised Web Services Glossary                  | CGH Technologies Inc. |
| 2018.2.0    | 12/08/2018 | Removed CGH Logo                               | CGH Technologies Inc. |
| 2018.2.0    | 12/08/2018 | Updated Example Web Service Query              | CGH Technologies Inc. |
| 2020-DEC.2  | 01/12/2021 | Added NPF-Notice of Preliminary Finding status | CGH Technologies Inc. |
| 2021-SEP    | 09/30/2021 | Added Expiration Date to Public Web Services   | CGH Technologies Inc. |



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|          |            |                             |                       |
|----------|------------|-----------------------------|-----------------------|
| 2021-SEP | 09/30/2021 | Added Structure Types Table | CGH Technologies Inc. |
| 2022-AUG | 08/18/2022 | Updated Status Code Types   | CGH Technologies Inc. |
|          |            |                             |                       |
|          |            |                             |                       |
|          |            |                             |                       |



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## 1 Welcome

Thank you for using the Obstruction Evaluation and Airport Airspace Analysis (OE/AAA) System. The public OE/AAA consists of a Web site provided by the Program Management Organization (PMO) Aeronautical Information Management (AIM) Division of the Federal Aviation Administration (FAA) at <https://oeaaa.faa.gov>.

The OE/AAA web services enable individuals and organizations to easily communicate computer to computer to receive construction /alteration data of potential obstructions; both on location at airports (On Airport) and those external to the airport (Off Airport) as described in CFR Title 14 Part 77.

The OE/AAA® Web API RESTful Services User Guide is a tool designed to facilitate the use of this service on the OE/AAA Web site.

## 2 Before You Start

### 2.0 What You Should Already Know

Web services provide data exchange operability to link data between different applications and platforms. Before you continue, you should have a basic understanding of HTML and XML.



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### 3 Acronyms/Abbreviations and Meanings

| Acronym/Abbreviation | Meaning  |
|----------------------|--|
| API                  | Application Program Interface                                    |
| Caselist             | Used to find cases   |
| Circ                 | Circularized cases where the FAA solicits input from the public. |
| HTML                 | HyperText Markup Language  |
| NOTAM                | Notice To Airmen (NOTAM)   |
| NRA                  | Non-Ruled Airports (case type)                                   |
| OE                   | Obstruction Evaluation (case type)                               |
| OEWEBAPI             | Obstruction Evaluation Web Application Program Interface         |
| REST                 | Representational State Transfer (REST)                           |
| RESTful              | Conforming to the REST constraints                               |
| WADL                 | Web Application Description Language (WADL)                      |
| XML                  | Extensible Markup Language (XML)                                 |



## 4 Web Services

OE/AAA public web services are available for computer-to-computer receipt of on and off airport potential obstruction data.

### 4.0 Public Access

#### 4.0.1 Caselist - No log-in required

- /case/{asn}
- /case/OE/{asn}
- /case/NRA/{asn}
- /caseList/{type}/{year}?state=<state\_code>&region=<region\_id>&dateEnteredStart=<date>&dateEnteredEnd=<date>
  - These dates are case created dates
  - Case Status {type}
- /caseList/date/{type}?start=<date>&end=<date>
  - These dates are determined dates (returns only DET cases)

#### 4.0.2 Circ – No log-in required.

- /caseList/circ/{state}
  - This is for CIRC cases by State

### 4.1 Authenticated FAA Access

Authenticated log-in is required to access OE/AAA web services that support internal FAA processes. Authenticated log-in access is restricted to FAA employees, contractors and partners.



OE/AAA Administrative system security users assign web service permission(s) to authenticated user accounts.





## 5 Performance of RESTful Services

The public RESTful web services communicate by transferring a representation of an OE/AAA resource in a format matching one of an evolving set of standard data types.

These services are selected dynamically based on the desires of a recipient based and the nature of the resource data (i.e. by ASN, etc.).

## 6 Best Practices

Rendering a complex RESTful service query is discouraged as this can take a lot of time, especially if the user is accessing it with an older browser or with a low-performance computer, such as a netbook.

To ensure the best performance and system-wide user satisfaction please break down large request into multiple service calls.

**To provide a smooth user experience while optimizing the performance of all OE/AAA system resources, web service queries are limited to a maximum of 8,000 rows.**

## 7 Using Non-Authenticated OE/AAA Public Web API RESTful Services

### 7.0 OEWEBAPI

All requests are RESTful, **with an endpoint** of the following format: [https://<hostname>\[:port\]/<restful query>](https://<hostname>[:port]/<restful query>)

**Endpoint URL:** <https://oeaaa.faa.gov/oeaaa/services/list>

Port: 443 (standard)

RESTful query: one of the following queries.

### 7.1 OE/AAA Public Web Services

**\* Login is NOT required for access.**

| Name   | Detail  | Provider | Type    | Frequency |
|--------|---|----------|---------|-----------|
| Public | OE/NRA Case Data<br><br><a href="https://oeaaa.faa.gov/oeaaa/services/?_wadl&amp;_type=xml">https://oeaaa.faa.gov/oeaaa/services/?_wadl&amp;_type=xml</a> | OE/AAA   | RESTFul | On Demand |



## 7.2 Find On-Airport or Off-Airport Case by ASN

**\* Login is NOT required for access.**

/oeaaa/services/case/{asn}

| Parameter Name | Element Description | Required |
|----------------|---------------------|----------|
| asn            | Case ASN            | Yes      |

### 7.2.1 Sample query - OE

/oeaaa/services/case/2021-ACE-1349-OE

### 7.2.2 Sample result - OE

```
<caseData>
<OECase>
<id>469101279</id>
<asn>2021-ACE-1349-OE</asn>
<asnSequence>1349</asnSequence>
<dateEntered>2021-02-11</dateEntered>
<expirationDate>2022-10-01</expirationDate>
<dateCompleted>2021-03-31</dateCompleted>
<caseType>OE</caseType>
<nearestAirportName>M66</nearestAirportName>
<nearestState>KS</nearestState>
<nearestCity>Hillsboro</nearestCity>
<siteElevationProposed>1407</siteElevationProposed>
<aglStructureHeight>180</aglStructureHeight>
<aglStructureHeightDet>180</aglStructureHeightDet>
<statusCode>DET-DNE</statusCode>
<recommendedMarkLightType>None</recommendedMarkLightType>
<year>2021</year>
<sponsor>Countryside Feed, LLC</sponsor>
<sponsorAddress1>101 Sante Fe St</sponsorAddress1>
<sponsorCity>Hillsboro</sponsorCity>
<sponsorState>KS</sponsorState>
<sponsorPostalCode>67063</sponsorPostalCode>
<faaGeographyId>ACE</faaGeographyId>
<distanceFromNearestAirport>11084.9836472585</distanceFromNearestAirport>
<directionFromNearestAirport>48.3250585525687</directionFromNearestAirport>
<structureDescription>Grain Elevator</structureDescription>
<structureType>GRAIN_ELEVATOR</structureType>
<locatorId>M66</locatorId>
<latitude>38.36180555555556</latitude>
<longitude>-97.18499722222222</longitude>
<sponsorEmail>bacton@countrysidefeed.com</sponsorEmail>
<sponsorCountry>US</sponsorCountry>
<sponsorPhone>417-531-1867</sponsorPhone>
<receivedDate>2021-02-11T16:08:51-05:00</receivedDate>
<amslOverallHeightProposed>1587</amslOverallHeightProposed>
<amslOverallHeightDet>1587</amslOverallHeightDet>
<latLongAccuracy>4D</latLongAccuracy>
</OECase>
```



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### 7.2.3 Sample query - NRA

/oeaaa/services/case/2021-AWP-3291-NRA

### 7.2.4 Sample result - NRA

```
<caseData>
<NRACase>
<id>491334204</id>
<asn>2021-AWP-3291-NRA</asn>
<asnSequence>3291</asnSequence>
<createdDate>2021-08-13T00:00:00-04:00</createdDate>
<expirationDate/>
<dateCompleted>2021-08-20</dateCompleted>
<caseType>NRA</caseType>
<nearestAirportName>SAN CARLOS</nearestAirportName>
<nearestCity>SAN CARLOS</nearestCity>
<nearestState>CA</nearestState>
<siteElevationProposed>12</siteElevationProposed>
<aglStructureHeight>44</aglStructureHeight>
<faaGeographyId>AWP</faaGeographyId>
<statusCode>DET-to-Prop</statusCode>
<year>2021</year>
<sponsor>Silicon Valley Clean Water</sponsor>
<sponsorAddress1>1404 Radio Road</sponsorAddress1>
<sponsorCity>Redwood City</sponsorCity>
<sponsorState>CA</sponsorState>
<sponsorCountry>US</sponsorCountry>
<sponsorEmail>Bruce@MPF-Consulting.com</sponsorEmail>
<sponsorPostalCode>94065</sponsorPostalCode>
<sponsorPhone>650-825-5511</sponsorPhone>
<structureDescription>Mobile Crane</structureDescription>
<structureType>CRANE$MOBILE</structureType>
<locatorId>SQL</locatorId>
<latitude>37.50604444444444</latitude>
<longitude>-122.24445833333334</longitude>
<receivedDate>2021-08-13T00:00:00-04:00</receivedDate>
<amslOverallHeightProposed>56</amslOverallHeightProposed>
<latLongAccuracy>4D</latLongAccuracy>
</NRACase>
```



### 7.3 Find cases by type and date range

**\* Login is NOT required for access.**

`/oeaaa/services/caseList/date/{type}?start={start}&end={end}`

| Parameter Name | Element Description  | Required |
|----------------|----------------------|----------|
| type           | Case type {OE   NRA} | Yes      |
| start          | Start date           | Yes      |
| end            | End date             | Yes      |

#### 7.3.1 Sample query - OE

`/oeaaa/services/caseList/date/OE?start=2020-11-20&end=2021-01-08`

#### 7.3.2 Sample result - OE

```
<caseList>
<OECase>
<id>453685572</id>
<asn>2020-ASO-31219-OE</asn>
<asnSequence>31219</asnSequence>
<dateEntered>2020-10-13</dateEntered>
<expirationDate>2022-05-20</expirationDate>
<dateCompleted>2020-11-20</dateCompleted>
<caseType>OE</caseType>
<nearestAirportName>NIP</nearestAirportName>
<nearestState>FL</nearestState>
<nearestCity>Jacksonville</nearestCity>
<siteElevationProposed>7</siteElevationProposed>
<aglStructureHeight>150</aglStructureHeight>
<aglStructureHeightDet>150</aglStructureHeightDet>
<statusCode>DET-DNE-TMP</statusCode>
<recommendedMarkLightType>Red lights and flags</recommendedMarkLightType>
<year>2020</year>
<sponsor>T-Mobile South LLC</sponsor>
<sponsorAddress1>7025 A.C. Skinner Parkway</sponsorAddress1>
<sponsorCity>Jacksonville</sponsorCity>
<sponsorState>FL</sponsorState>
<sponsorPostalCode>32256</sponsorPostalCode>
<faaGeographyId>ASO</faaGeographyId>
<distanceFromNearestAirport>19197.3504776814</distanceFromNearestAirport>
<directionFromNearestAirport>284.695919355947</directionFromNearestAirport>
<structureDescription>Derrick/Gantry Crane</structureDescription>
<structureType>CRANE$GANTRY</structureType>
<locatorId>NIP</locatorId>
<latitude>30.24708333333332</latitude>
<longitude>-81.7348638888889</longitude>
```



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```
<sponsorEmail>kelly.williamson@T-Mobile.com</sponsorEmail>  
<sponsorCountry>US</sponsorCountry>  
<sponsorPhone>904-251-7000</sponsorPhone>  
<receivedDate>2020-10-13T16:33:43-04:00</receivedDate>  
<amslOverallHeightProposed>157</amslOverallHeightProposed>  
<amslOverallHeightDet>157</amslOverallHeightDet>  
<latLongAccuracy>4D</latLongAccuracy>  
</OECASE>
```

### 7.3.3 Sample query - NRA

```
/oeaaa/services/caseList/date/NRA?start=2020-05-13&end=2021-06-13
```

### 7.3.4 Sample result - NRA

```
<caseList>  
<NRACase>  
<id>436854867</id>  
<asn>2020-ASO-2197-NRA</asn>  
<asnSequence>2197</asnSequence>  
<createdDate>2020-04-17T00:00:00-04:00</createdDate>  
<expirationDate/>  
<dateCompleted>2020-05-13</dateCompleted>  
<caseType>NRA</caseType>  
<nearestAirportName>HARTSFIELD - JACKSON ATLANTA INTL</nearestAirportName>  
<nearestCity>ATLANTA</nearestCity>  
<nearestState>GA</nearestState>  
<siteElevationProposed>1050</siteElevationProposed>  
<aglStructureHeight>12</aglStructureHeight>  
<faaGeographyId>ASO</faaGeographyId>  
<statusCode>DET-to-Prop</statusCode>  
<year>2020</year>  
<sponsor>City of Atlanta - DOA</sponsor>  
<sponsorAddress1>1255 South Loop Road</sponsorAddress1>  
<sponsorCity>Atlanta</sponsorCity>  
<sponsorState>GA</sponsorState>  
<sponsorCountry>US</sponsorCountry>  
<sponsorEmail>norma.click@atl.com</sponsorEmail>  
<sponsorPostalCode>30337</sponsorPostalCode>  
<sponsorPhone>404-382-1304</sponsorPhone>  
<structureDescription>Fuel Tank</structureDescription>  
<structureType>FUEL_SYSTEM</structureType>  
<locatorId>ATL</locatorId>  
<latitude>33.64048055555555</latitude>  
<longitude>-84.44309722222222</longitude>  
<receivedDate>2020-04-17T00:00:00-04:00</receivedDate>  
<amslOverallHeightProposed>1062</amslOverallHeightProposed>  
<latLongAccuracy>1A</latLongAccuracy>  
</NRACase>
```



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## 7.4 Find cases by type and date range (with optional filters)

**\* Login is NOT required for access.**

```
/oeaaa/services/caseList/case  
type/year/state/region/datestart={start}&end={end}statusCode
```

| Parameter Name | Element Description                             | Required |
|----------------|---|----------|
| type           | Case type {OE   NRA}                            | Yes      |
| start          | Start date                                      | Yes      |
| end            | End date  | Yes      |
| State          | Example: FL                                     | No       |
| Region         | Example: ASO                                    | No       |
| StatusCode     | OE Example: DET-DNE    NRA Example: DET-to-Prop | No       |

### 7.4.1 Sample query – OE

```
/oeaaa/services/caseList/OE/2022?state=FL&region=ASO&dateEnteredStart=  
2022-01-01&dateEnteredEnd=2022-02-01&statusCode= DET-DNE
```

### 7.4.2 Sample result - OE

```
<caseList>  
<OECase>  
<id>508061703</id>  
<asn>2022-ASO-2049-OE</asn>  
<asnSequence>2049</asnSequence>  
<dateEntered>2022-01-17</dateEntered>  
<expirationDate>2023-10-05</expirationDate>  
<dateCompleted>2022-04-05</dateCompleted>  
<caseType>OE</caseType>  
<nearestAirportName>GNV</nearestAirportName>  
<nearestState>FL</nearestState>  
<nearestCity>Gainesville</nearestCity>  
<siteElevationProposed>156</siteElevationProposed>  
<aglStructureHeight>62</aglStructureHeight>  
<aglStructureHeightDet>62</aglStructureHeightDet>  
<statusCode>DET-DNE</statusCode>  
<recommendedMarkLightType>None</recommendedMarkLightType>  
<year>2022</year>  
<sponsor>SiVance LLC</sponsor>  
<sponsorAddress1>5002 NE 54th Place</sponsorAddress1>
```



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```
<sponsorCity>Gainesville</sponsorCity>
<sponsorState>FL</sponsorState>
<sponsorPostalCode>32609</sponsorPostalCode>
<faaGeographyId>ASO</faaGeographyId>
<distanceFromNearestAirport>6110.63617252401</distanceFromNearestAirport>
<directionFromNearestAirport>18.68688573356402</directionFromNearestAirport>
<structureDescription>Skid 51A</structureDescription>
<structureType>BUILDING</structureType>
<locatorId>GNV</locatorId>
<latitude>29.70597222222222</latitude>
<longitude>-82.26561111111111</longitude>
<sponsorEmail>Paul.Sweeney@Milliken.com</sponsorEmail>
<sponsorCountry>US</sponsorCountry>
<sponsorPhone>352-235-1150</sponsorPhone>
<receivedDate>2022-01-17T11:52:38-05:00</receivedDate>
<amslOverallHeightProposed>218</amslOverallHeightProposed>
<amslOverallHeightDet>218</amslOverallHeightDet>
<latLongAccuracy>4D</latLongAccuracy>
</OECASE>
```

### 7.4.3 Sample Query – NRA

```
/services/caseList/NRA/2022?state=FL&region=ASO&dateEnteredStart=2022-01-01&dateEnteredEnd=2022-02-01&statusCode=DET-to-Prop
```

### 7.4.4 Sample result - NRA

```
<caseList>
<NRACase>
<id>506641217</id>
<asn>2022-ASO-33-NRA</asn>
<asnSequence>33</asnSequence>
<createdDate>2022-01-04T00:00:00-05:00</createdDate>
<expirationDate/>
<dateCompleted>2022-01-04</dateCompleted>
<caseType>NRA</caseType>
<nearestAirportName>CALHOUN COUNTY</nearestAirportName>
<nearestCity>BLOUNTSTOWN</nearestCity>
<nearestState>FL</nearestState>
<siteElevationProposed>121</siteElevationProposed>
<aglStructureHeight>1</aglStructureHeight>
<faaGeographyId>ASO</faaGeographyId>
<statusCode>DET-to-Prop</statusCode>
<year>2022</year>
```



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```
<sponsor>CALHOUN COUNTY</sponsor>
<sponsorAddress1>20589 CENTRAL AVENUE EAST</sponsorAddress1>
<sponsorCity>BLOUNTSTOWN</sponsorCity>
<sponsorState>FL</sponsorState>
<sponsorCountry>US</sponsorCountry>
<sponsorEmail>WScottSnyder@gmail.com</sponsorEmail>
<sponsorPostalCode>32424</sponsorPostalCode>
<sponsorPhone>(850) 674-4545</sponsorPhone>
<structureDescription>PLANNING Airport Layout Plan</structureDescription>
<structureType>PLANNING - Airport Layout Plan</structureType>
<locatorId>F95</locatorId>
<latitude>30.48703055555556</latitude>
<longitude>-85.11378611111111</longitude>
<receivedDate>2022-01-04T00:00:00-05:00</receivedDate>
<amslOverallHeightProposed>122</amslOverallHeightProposed>
<latLongAccuracy>4D</latLongAccuracy>
</NRACase>
```

## 7.5 Find Circ cases {by state code}

**\* Login is NOT required for access.**

/oeaaa/services/caseList/circ/{state}

| Parameter Name | Element Description  | Required |
|----------------|----------------------|----------|
| state          | Case ASN Example: VA | Yes      |

### 7.5.1 Sample query

/oeaaa/services/caseList/circ/VA

### 7.5.2 Sample result

```
<caseList>
<OECase>
<id>456782814</id>
<asn>2020-AEA-12106-OE</asn>
<asnSequence>12106</asnSequence>
<dateEntered>2020-11-16</dateEntered>
<expirationDate/>
<dateCompleted>2021-02-08</dateCompleted>
<caseType>OE</caseType>
<nearestAirportName>DCA</nearestAirportName>
<nearestState>VA</nearestState>
```





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<nearestCity>Arlington</nearestCity>  
<siteElevationProposed>34</siteElevationProposed>  
<aglStructureHeight>351</aglStructureHeight>  
<aglStructureHeightDet>351</aglStructureHeightDet>  
<statusCode>CIR</statusCode>  
<year>2020</year>  
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<sponsorEmail>JDonaldson@jbgsmith.com</sponsorEmail>  
<sponsorCountry>US</sponsorCountry>  
<sponsorPhone>202-607-1775</sponsorPhone>  
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<amslOverallHeightDet>385</amslOverallHeightDet>  
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</OECASE>



## 8 Glossary

The glossary list possible columns for any public OE/AAA RESTful web service. Sample data for each Public Access service is located in **Section 5** of this document

**Note: The list is not inclusive of any specific service, as specific services may have specific columns in their results.**

| Column / Field Names        | Description  |
|-----------------------------|--|
| aglStructureHeight          | Proposed total structure height above ground level in whole feet rounded to the next highest foot. The total structure height should include anything mounted on top of the structure such as antennas, lightning rods, obstruction lights, etc. |
| aglStructureHeightDet       | FAA confirmed total structure height above ground level.   |
| asn                         | Aeronautical Study Number (Case)<br>Year-Region-Number-Case type (e.g. 2013-AAL-23-OE or NRA)  |
| asnSequence                 | ASN sequence number (i.e. "23")  |
| dateCompleted               | Aeronautical Study completion date   |
| dateEntered                 | Date an On or Off Airport ASN was accepted.  |
| distanceFromNearestAirport  | Off Airport structure's distance in feet from the nearest Airport.   |
| directionFromNearestAirport | Off Airport structure's direction in degrees from the nearest Airport.   |
| expirationDate              | Date a case determination expires  |
| faaGeographyId              | FAA Regional Boundaries IDs across the country: AAL, ACE, AEA, AGL, ANE, ANM, ASO, ASW, AWP, WTE and WTW   |
| id                          | Number assigned as a case identifier   |
| latitude                    | Precise geographic coordinate entered in Decimal Degrees (e.g. 41.69883333333333).   |
| longitude                   | Precise geographic coordinate entered in Decimal Degrees (e.g. 71.43244444444444).   |
| nearestAirportName          | Name of the nearest airport to where the Off Airport structure will be located.  |
| nearestCity                 | Name of the nearest city where the Off Airport structure will be located.  |



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| Column / Field Names  | Description  |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
|-----------------------|--|--|----|-----------------------------|------------|----|---------------------------|---------|----|-------------------------------|-------------|----|-------------------------------|--------------------|----|----------------------------------|------------------|----|-------------------------------|--------------------|----|-------------------------------|------------------|----|---|---------------------|----|---|------------------|----|--|-------------|----|--|---------|----|----------------------------|
| nearestState          | Name of the actual state where the Off Airport structure will be located.  |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| siteElevationProposed | Proposed site elevation above mean sea level. Expressed in whole feet rounded to the nearest foot.   |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsor               | Person or business ultimately responsible for the construction or alteration.  |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorAddress1       | Sponsor's mailing address  |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorCity           | Sponsor's mailing address city   |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorCountry        | Sponsor's mailing address country  |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorEmail          | Sponsor's e-mail address   |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorPostalCode     | Sponsor's mailing address zip code   |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| sponsorState          | Sponsor's mailing address state or Non-US state.   |  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| Status                | <p>Case Status Codes:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">CIR</td> <td style="width: 10%;">OE</td> <td>Circularized (for comments)</td> </tr> <tr> <td>CIR-CANCEL</td> <td>OE</td> <td>Cancelled Circularization</td> </tr> <tr> <td>DET-DNE</td> <td>OE</td> <td>Determination Does Not Exceed</td> </tr> <tr> <td>DET-DNE-EXT</td> <td>OE</td> <td>Determination DNE - Extension</td> </tr> <tr> <td>DET-DNE-EXT-Denied</td> <td>OE</td> <td>Determination DNE - Ext - Denied</td> </tr> <tr> <td>DET-DNE-Fastrack</td> <td>OE</td> <td>Determination Does Not Exceed</td> </tr> <tr> <td>DET-DNE-Fastrack18</td> <td>OE</td> <td>Determination Does Not Exceed</td> </tr> <tr> <td>DET-DNE-PSF-Sent</td> <td>OE</td> <td>DNE - Project Status Followup<br/>- Sent</td> </tr> <tr> <td>DET-DNE-PSR-Removed</td> <td>OE</td> <td>Determination DNE Project<br/>Status Request - Removed</td> </tr> <tr> <td>DET-DNE-PSR-Sent</td> <td>OE</td> <td>Determination DNE Project<br/>Status Request - Sent</td> </tr> <tr> <td>DET-DNE-TMP</td> <td>OE</td> <td>Determination Does Not<br/>Exceed - Temporary Structure</td> </tr> <tr> <td>DET-DNH</td> <td>OE</td> <td>Determination of No Hazard</td> </tr> </table> | CIR  | OE | Circularized (for comments) | CIR-CANCEL | OE | Cancelled Circularization | DET-DNE | OE | Determination Does Not Exceed | DET-DNE-EXT | OE | Determination DNE - Extension | DET-DNE-EXT-Denied | OE | Determination DNE - Ext - Denied | DET-DNE-Fastrack | OE | Determination Does Not Exceed | DET-DNE-Fastrack18 | OE | Determination Does Not Exceed | DET-DNE-PSF-Sent | OE | DNE - Project Status Followup<br>- Sent | DET-DNE-PSR-Removed | OE | Determination DNE Project<br>Status Request - Removed | DET-DNE-PSR-Sent | OE | Determination DNE Project<br>Status Request - Sent | DET-DNE-TMP | OE | Determination Does Not<br>Exceed - Temporary Structure | DET-DNH | OE | Determination of No Hazard |
| CIR                   | OE   | Circularized (for comments)                            |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| CIR-CANCEL            | OE   | Cancelled Circularization                              |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE               | OE   | Determination Does Not Exceed                          |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-EXT           | OE   | Determination DNE - Extension                          |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-EXT-Denied    | OE   | Determination DNE - Ext - Denied                       |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-Fastrack      | OE   | Determination Does Not Exceed                          |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-Fastrack18    | OE   | Determination Does Not Exceed                          |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-PSF-Sent      | OE   | DNE - Project Status Followup<br>- Sent                |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-PSR-Removed   | OE   | Determination DNE Project<br>Status Request - Removed  |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-PSR-Sent      | OE   | Determination DNE Project<br>Status Request - Sent     |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNE-TMP           | OE   | Determination Does Not<br>Exceed - Temporary Structure |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |
| DET-DNH               | OE   | Determination of No Hazard                             |    |                             |            |    |                           |         |    |                               |             |    |                               |                    |    |                                  |                  |    |                               |                    |    |                               |                  |    |   |                     |    |   |                  |    |  |             |    |  |         |    |                            |



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| Column / Field Names   | Description  |
|--|--|
| Status (cont.)   | DET-DNH-EXT OE      Determination of No Hazard –<br>Extension                                    |
|  | DET-DNH-EXT-Denied OE      Determination of No Hazard –<br>Extension - Denied                    |
|  | DET-DNH-PSF-Sent OE      Determination of No Hazard –<br>Project Status Follow-up (PSF) sent     |
|  | DET-DNH-PSR-Removed OE      Determination of No Hazard –<br>Project Status Request (PSR) removed |
|  | DET-DNH-PSR-Sent OE      Determination of No Hazard –<br>Project Status Request (PSR) sent       |
|  | DET-DOH OE      Determination of Hazard  |
|  | DET-DPH OE      Determination of Presumed Hazard   |
|  | DET-EBO OE      Determination of Exceeds But Okay  |
|  | DET-EBO-EXT OE      Determination of Exceeds But Okay<br>- Extension                             |
|  | DET-EBO-EXT-Denied OE      Determination of Exceeds But Okay<br>– Extension Denied               |
| DET-EBO-PSF-Sent OE      Determination of Exceeds But Okay<br>– PSF Follow-up sent |  |



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| Column / Field Names | Description  |
|----------------------|--|
| Status (cont.)       | DET-EBO-PSR-Sent    OE    Determination of Exceeds But Okay – PSR sent       |
|                      | DET-EBO-TMP    OE    Determination of Exceeds But Okay, Temporary Structure  |
|                      | DET-FSB    OE    Determination of Feasibility                                |
|                      | DET-LTR    OE    Determination Letter  |
|                      | DET-M&L    OE    Determination of Marking & Lighting                         |
|                      | DET-M&L-Change    OE    Determination of Marking and Lighting - Change       |
|                      | DET-M&L-Deviation    OE    Determination of Marking and Lighting - Deviation |
|                      | DET-NNR    OE    No Notice Required (Legacy Status before 2000)              |
|                      | DET-OTH    OE    Determination – Other (Legacy Determination before 2001)    |
|                      | EVL-CIR    OE    Being Evaluated   |
|                      | EVL-Exam    OE    Being Evaluated  |
|                      | EVL-Pending    OE    Being Evaluated   |
|                      | EVL-Referred    OE    Being Evaluated  |
|                      | EVL-Referred-FT18    OE    Being Evaluated                                   |
|                      | HLD-Eval    OE    Being Evaluated  |



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| Column / Field Names | Description   |
|----------------------|---|
| Status (cont.)       | NPH-PendingRes OE Notice of Presumed Hazard – Pending Resolution<br><br>WRK-Part77 OE Being Evaluated<br><br>WRK-Pending OE Being Evaluated |
| structureDescription | Structure Location  |
| structureType        | Type of Off Airport Structure;<br>(e.g. Crane, Wind Turbine, Building, etc.).   |
| year                 | Year of case  |



## Appendix: Structure Types in WebServices

**Structure Types Table**

| Structure Type Code      | Structure Type Description                 |
|--------------------------|--|
| AG_EQUI                  | Ag Equipment                               |
| AMUSEMENT_PARK_STRUCTURE | Amusement Park Structure                   |
| TOWER\$ANTENNA           | Antenna Tower                              |
| CRANE\$BARGE             | Barge Crane                                |
| SIGN\$BILLBOARD          | Billboard                                  |
| BRIDGE                   | Bridge                                     |
| BRIDGE\$SUPER            | Bridge Superstructure                      |
| BRIDGE\$TOWER            | Bridge Tower                               |
| BUILDING                 | Building                                   |
| BUILDING\$WINDMILL       | Building with Wind Turbine                 |
| CATENARY                 | Catenary Wire                              |
| TRANSMISSION_LINE        | Catenary Wire                              |
| TOWER\$COW               | Cell-On-Wheels                             |
| BUILDING\$CHURCH         | Church                                     |
| BUILDING\$COMMERCIAL     | Commercial Use Building                    |
| CONSTRUCTION\$VEHICLE    | Construction Vehicle                       |
| LANDFILL\$C_D            | Construction and Demolition (C&D) Landfill |
| CRANE                    | Crane                                      |
| DAM                      | Dam  |
| CRANE\$GANTRY            | Derrick / Gantry Crane                     |
| BRIDGE\$DRAW             | Draw Bridge                                |



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**Structure Types Table**

| Structure Type Code         | Structure Type Description              |
|-----------------------------|---|
| RIG\$DRILLING               | Drilling Rig                            |
| LANDFILL\$EXIST             | Existing Municipal Solid Waste Landfill |
| FENCE                       | Fence                                   |
| POLE\$FENCE                 | Fence Pole / Fence Post                 |
| POLE\$FLAG                  | Flagpole                                |
| FUEL_SYSTEM                 | Fuel Tank                               |
| GRAIN_ELEVATOR\$SILO        | Grain Bin / Silo                        |
| GRAIN_ELEVATOR              | Grain Elevator                          |
| POLE\$HIGH_MAST             | High Mast Illumination                  |
| BUILDING\$SKYSCRAPER        | High Rise / Sky Scraper                 |
| TERRAIN\$HILL               | Hill                                    |
| TRAVERSE_WAY\$INTERSTATE    | Interstate Highway                      |
| LANDFILL                    | Landfill                                |
| POLE\$LIGHTING              | Light Pole                              |
| TRAVERSE_WAY\$LIGHT_RAILWAY | Light Railway                           |
| TOWER\$MET                  | Met Tower                               |
| WINDMILL_FARMS\$MET         | Met Tower (w/WT Farm)                   |
| CONSTRUCTION\$OTHER         | Miscellaneous                           |
| CRANE\$MOBILE               | Mobile Crane                            |
| POLE\$MONO                  | Monopole                                |
| TRAVERSE_WAY\$MONORAIL      | Monorail                                |
| MONUMENT                    | Monument                                |
| BUILDING\$MULTI_PURPOSE     | Multi-purpose Building                  |





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**Structure Types Table**

| Structure Type Code        | Structure Type Description         |
|----------------------------|------------------------------------|
| BUILDING\$MULTI_UNIT       | Multi-unit Housing                 |
| LANDFILL\$NEW              | New Municipal Solid Waste Landfill |
| TOWER\$NON                 | Non-Transmitting Tower             |
| RIG\$OIL                   | Oil Derrick / Rig                  |
| OTHER                      | Other                              |
| TRAVERSE_WAY\$OTHER        | Other Traverseway                  |
| STADIUM\$OUTDOOR_THEATER   | Outdoor Theater                    |
| TRAVERSE_WAY\$PARKING      | Parking Lot                        |
| POLE\$PARKING              | Parking Lot Lighting               |
| BUILDING\$PARKING          | Parking Structure                  |
| CONSTRUCTION\$PILE_DRIVER  | Pile Driver                        |
| POLE                       | Pole                               |
| POWER_PLANT                | Power Plant                        |
| TRAVERSE_WAY\$PRIVATE_ROAD | Private Road                       |
| FENCE\$PROPERTY            | Property Fencing                   |
| TRAVERSE_WAY\$PUBLIC_ROAD  | Public Road                        |
| TRAVERSE_WAY\$RAILROAD     | Railroad                           |
| RECREATIONAL_USE           | Recreational Use Structure         |
| REFINERY                   | Refinery                           |
| BUILDING\$HOME             | Residential Home                   |
| RIG                        | Rig                                |
| SIGN\$ROAD                 | Road Sign                          |
| BUILDING\$SCHOOL           | School                             |



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**Structure Types Table**

| Structure Type Code            | Structure Type Description |
|--------------------------------|----------------------------|
| FENCE\$SECURITY                | Security Equip/Fencing     |
| SIGN                           | Sign                       |
| ELECTRICAL_SYSTEM\$SOLAR_PANEL | Solar Panel                |
| TOWER\$SOLAR                   | Solar Tower                |
| STACK                          | Stack                      |
| STADIUM                        | Stadium                    |
| CRANE\$FIXED                   | Stationary / Fixed Crane   |
| SIGN\$STREET                   | Street Sign                |
| TRANSMISSION_LINE\$T_L_TOWER   | TL Tower                   |
| TANK                           | Tank                       |
| TERRAIN                        | Terrain                    |
| TOWER                          | Tower                      |
| CRANE\$TOWER                   | Tower Crane                |
| TREE                           | Tree                       |
| POLE\$UTILITY                  | Utility Pole               |
| VEGETATION                     | Vegetation                 |
| VERTICAL_POINT                 | Vertical Point             |
| CRANE\$WINDMILL                | WT-Barge Crane             |
| WASTEWATER_SYSTEM              | Waste Management Facility  |
| WATER_SYSTEM                   | Water Tank                 |
| WATER_TOWER                    | Water Tower                |
| TRAVERSE_WAY\$WATERWAY         | Waterway                   |



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**Structure Types Table**

| Structure Type Code | Structure Type Description |
|---------------------|----------------------------|
| WINDMILL            | Wind Turbine               |
| WINDMILL_FARMS      | Wind Turbine Farm          |
| RIG\$WORKOVER       | Workover Rig               |