



Outerlink API

AFF Request

Outerlink accepts a standard Automated Flight Following (AFF) request. For more information, see the spec at <https://aff.gov>

URL: <https://api.outerlink.com/aff>

Method: POST

Required headers:

Content-Type = "application/xml"

Accept = "application/xml"

Body:

```
<?xml version="1.0" encoding="UTF-8" ?>
<data xmlns="https://www.aff.gov/affSchema"
  rptTime="2024-12-31T12:59:59+00:00"
  version="2.23">
  <msgRequest to="https://api.outerlink.com/aff"
    username="username" password="password"
    msgType="Data Request" subject="Async"
    dateTime="2024-12-31T12:59:59+00:00">
    <body>date/time</body>
  </msgRequest>
</data>
```

Replace the highlighted fields with your own:

Username: your username

password: your password

date/time: beginning of the time period for which to receive messages

Sample XML Request/Response

Request:

```
<?xml version="1.0" encoding="UTF-8" ?>
<data xmlns="https://www.aff.gov/affSchema"
      rptTime="2024-12-31T12:59:59+00:00"
      version="2.23">
  <msgRequest to="https://api.outerlink.com/aff"
             username="example@outerlink.com" password="P@ssw0rd"
             msgType="Data Request" subject="Async"
             dateTime="2024-12-31T12:59:59+00:00">
    <body>2024-01-01T00:00:00+00:00</body>
  </msgRequest>
</data>
```

Response:

```
<data xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xmlns:xsd="http://www.w3.org/2001/XMLSchema"
      xmlns="https://www.aff.gov/affSchema">
  <posList>
    <acPos esn="420135" UnitID="265f191e-fb7e-475b-bf31-55e0859ae64e"
          customerAlias="N635DH" source="GPS" fix="GPS3D" PDOP="1"
          dataCtr="Outerlink" dateTime="2024-08-29T18:47:24Z"
          dataCtrDateTime="2024-08-29T18:47:23.5943003Z">
      <Lat>41.62443</Lat>
      <Long>-73.88313</Long>
      <altitude units="meters">138</altitude>
      <speed units="meters/sec">0</speed>
      <heading units="North-True">34</heading>
      <dio>12</dio>
      <telemetry name="movement" type="xsd:string" value="OnGround"/>
      <telemetry name="status" type="xsd:string" value="offline"/>
    </acPos>

    ...

  </posList>
  <commsList>
    <commsMsg to="N138MH"
              dateTime="2024-04-01T21:50:25.878746Z"
              subject="">N138MH: Test</commsMsg>

    ...

  </commsList>
</data>
```

JSON Request

The API also accepts requests in JSON format:

URL: <https://api.outerlink.com/aff>

Method: POST

Required headers:

Content-Type = "application/json"

Accept = "application/json"

Body:

```
{
  "msgRequest":{
    "to":"https://api.outerlink.com/aff",
    "username":"username",
    "password":"password",
    "msgType":"Data Request",
    "subject": "Async",
    "dateTime":"2024-12-31T12:59:59+00:00",
    "body":"date/time"
  }
}
```

Replace the highlighted fields with your own:

Username: your username

password: your password

date/time: beginning of the time period for which to receive messages

Comms Message

To send a text message to an Outerlink communication channel, the same request format (either XML or JSON) may be used. Note the msgType is "Comms Message":

```
{
  "msgRequest": {
    "to": "https://api.outerlink.com/aff",
    "username": "username",
    "password": "password",
    "msgType": "Comms Message",
    "subject": "UnitID",
    "dateTime": "2024-12-31T12:59:59+00:00",
    "body": "your message"
  }
}
```

The UnitID is a GUID and may be found in the acPos response from the Data Request.

AFF Connect

The Outerlink API supports a live data feed over WebSocket.

URL: `wss://api.outerlink.com/aff/connect`

Credentials should be concatenated `username:password` and Base 64 encoded. Credentials may be added as a Basic Authorization header or an auth query parameter.

Example header: `Authorization = "Basic dXNlcm5hbWU6cGFzc3dvcmQ="`

Example query parameter: `?auth=dXNlcm5hbWU6cGFzc3dvcmQ=`

For more information on WebSocket requests, visit <https://developer.mozilla.org/en-US/docs/Web/API/WebSocket>