

Hangar Service: airports/search

i The Hangar Service API is providing airports belonging to a Tenant, and information about them including the hierarchy, geo-coordinates, etc.

Please see [EM Platform: Basic Postman Setup](#) for the basic EM Platform Collection.

The Service is leveraged by any Location dropdowns and / or Auto-completes available on airTRFX and airModules. Additionally, some internal services leverage this as well for location information required, such as Data Analytics, airTRFX Control, and EM Portal.

Endpoint: `https://openair-{{envVariable}},airtrfx.com/hangar-service/v2/{{tenantCode}}/airports/search`

- **POST** Request
- Requires **EM-API-Key** in Header

Example Sample Request:

```
{
  "language": "en",
  "setting": {
    "airportSource": "TRFX",
    "routeSource": "TRFX"
  },
  "outputFields": [
    "iataCode",
    "geo",
    "cityGeoId",
    "countryGeoId",
    "regionGeoId",
    "stateGeoId",
    "countryIsoCode"
  ],
  "sortingDetails": [
    {
      "field": "popularity",
      "order": "DESC"
    }
  ]
}
```

Location Language

i The Location Language setting configures the location information language that will be used.

Key	Value Type	Description	Example + Default
language	String of enumeration <ul style="list-style-type: none">• Enum is for all available language codes REQUIRED	Allows to choose what language location information is returned in. Language ISO code must be used, please see CoreDictionary Languages for all enabled languages.	<pre>"language": "en"</pre> <p><i>No default</i></p>

Location Source Settings

i The Location Source settings allows to define the Airport and Route source that should be used for the info provided by Hangar.

Key	Value Type	Description	Example + Default
setting	Object including: <ul style="list-style-type: none"> airportSource routeSource <p><i>Optional</i></p>	<p>The setting object allows to configure the <code>airportSource</code> and <code>routeSource</code> to determine the source of the airport & route info.</p> <p>Depending on the source chosen, different airports can be returned and the location info that is available may differ for the <code>outputfields</code>.</p>	<pre>"setting": { "airportSource": "LAMBDA", "routeSource": "LAMBDA" }</pre> <p><i>No default</i></p>
setting.airportSource	String of enumeration <ul style="list-style-type: none"> TRFX FARENET LAMBDA <p><i>Optional</i></p>	<p>Allows to specify which source will provide the airport hierarchy location information.</p> <p>Options include:</p> <ul style="list-style-type: none"> TRFX Core Dictionary FARENET Core Dictionary LAMBDA Airport Service Integration via DataCore Lambda <p>Output Fields:</p> <p>LAMBDA: depends on the integration. For more information, see customer-specific info: Airport Services.</p> <p>TRFX / FARENET: Core Dictionary fields, which include:</p> <ul style="list-style-type: none"> name Airport Name iataCode Airport Iata Code cityName City Name stateName State Name countryName Country Name regionName Region Name 	<pre>"setting": { "airportSource": "LAMBDA" }</pre> <p><i>Example provided is the default set by the system.</i></p>
setting.routeSource	String of enumeration <ul style="list-style-type: none"> TRFX FARENET LAMBDA <p><i>Optional</i></p>	<p>Allows to specify which route source will be used.</p> <p><i>Please note routeSource will affect the information returned when routeOption is also utilized. Additionally, it will limit airports returned with total airports available in the routeSource when routeOption is not utilized.</i></p> <p>Options include:</p> <ul style="list-style-type: none"> TRFX TRFX route list FARENET Routes from searches captured by Farenet. Only routes searched within the last 30 days will appear from Farenet route source. Some Tenants may not have a Farenet endpoint, please see FareNet Documentation Overview. LAMBDA Airport Service Integration via DataCore Lambda. Not all Tenants have a Lambda implemented, and not all Lambda integrations include routes, see: Airport Services. 	<pre>"setting": { "routeSource": "LAMBDA" }</pre> <p><i>No default</i></p>

routeOption	<p>Object</p> <p><i>Optional</i></p> <ul style="list-style-type: none"> airportType selectedDestination selectedOrigin 	<p>Allows to filter the airports returned based on their entry into the route list source chosen. Users can filter to show only origin airports that connect with certain destination airports and vice versa. If routeOption is used, airportType must not be null.</p> <p><i>Note:</i></p> <ul style="list-style-type: none"> airportType = "ORIGIN" must be paired with selectedDestination airportType = "DESTINATION" must be paired with selectedOrigin 	<pre>"routeOption": { "airportType": "DESTINATION", "selectedOrigin": "LAX" }</pre> <p>OR</p> <pre>"routeOption": { "airportType": "ORIGIN", "selectedDestination": "LAX" }</pre> <p><i>No default</i></p>
routeOption.airportType	<p>String of enumeration</p> <ul style="list-style-type: none"> ORIGIN DESTINATION 	<p>User can specify the whether origin or destination airports are returned.</p>	<pre>"routeOption": { "airportType": "ORIGIN" }</pre> <p><i>No default</i></p>
routeOption.selectedDestination routeOption.selectedOrigin	<p>String</p> <p><i>Optional</i></p>	<p>User can specify the selected origin or destination airports by iata code.</p>	<pre>"routeOption": { "selectedDestination": "LAX" }</pre> <p>OR</p> <pre>"routeOption": { "selectedOrigin": "LAX" }</pre> <p><i>No default</i></p>

Key	Value Type	Description	Example + Default
sortingDetails	Array		

Optional

Sorting details allows users to sort the results by the fields available in the response. Fields selected can be sorted in ASC or DESC order. Multiple sorts can be performed simultaneously.

This can be used for a number of options including:

- Geo ID
- IATA code
- Date
- Language
- Location name
- Destination Popularity **NEW**

▼ [Output Fields Generally Available - varies](#)

by source

date
countryGeo
country
stateCategory
language
source
stateTagId
stateGeo
iataCode
stateName
cityGeoId
geoId
state
countryGeoId
stateCategoryId
active
regionCategoryId
stateGeoId
cityGeo
sortOrder
cityCategoryId
name
countryName
region
extraInfo
city
countryIsoCode
cityTagId
regionName
regionTagId
regionCategory
batchId
geo
regionGeo

```
"sortingDetails": [  
  {  
    "field":  
    "countryName",  
    "order":  
    "ASC"  
  },  
  {  
    "field":  
    "name",  
    "order":  
    "ASC"  
  }  
]
```

No default

		<p>cityName</p> <p>popularity</p> <p>alias</p> <p>categories</p> <p>countryCategoryId</p> <p>airportTagId</p> <p>regionGeoId</p> <p>airportCategoryId</p> <p>countryCategory</p> <p>cityCategory</p> <p>countryTagId</p> <p>codeshare</p> <p>regionIdentifierCode</p> <p>category</p>	
outputFields	<p>Array</p> <p><i>Optional</i></p>	<p>Output Fields allows users to decide which fields/information will be returned in the response. <i>Please note, the fields selected can only be populated if the source chosen has that information available (ie. trfx, lambda, farenet).</i></p> <p>This can be used for a number of options including:</p> <ul style="list-style-type: none"> • Categories + Tags • Geo ID • IATA code • Date • Language • Source • Popularity <p> Output Fields Generally Available - varies by source </p> <p>date</p> <p>countryGeo</p> <p>country</p> <p>stateCategory</p> <p>language</p> <p>source</p> <p>stateTagId</p> <p>stateGeo</p> <p>IATA code</p> <p>stateName</p> <p>cityGeoId</p> <p>geoId</p> <p>state</p> <p>countryGeoId</p> <p>stateCategoryId</p> <p>active</p> <p>regionCategoryId</p>	<pre>"outputFields": ["city", "country", "name", "iataCode"]</pre> <p><i>No default</i></p>

stateGeoId
 cityGeo
 sortOrder
 cityCategoryId
 name
 countryName
 region
 extraInfo
 city
 countryIsoCode
 cityTagId
 regionName
 regionTagId
 regionCategory
 batchId
 geo
 regionGeo
 cityName
 popularity
 alias
 categories
 countryCategoryId
 airportTagId
 regionGeoId
 airportCategoryId
 countryCategory
 cityCategory
 countryTagId
 codeshare
 regionIdentifierCode
 category

filterFields

Array
Optional

Filter Fields allows to send any field and value that is available in the response to filter the Airports returned. This can be used for a number of options (*any output fields*) including:

- Categories + Tags
- Geo ID
- Market

[▼ Output Fields Generally Available - varies](#)

by source
 date
 countryGeo
 country
 stateCategory
 language

source
stateTagId
stateGeo
iataCode
stateName
cityGeoId
geoId
state
countryGeoId
stateCategoryId
active
regionCategoryId
stateGeoId
cityGeo
sortOrder
cityCategoryId
name
countryName
region
extraInfo
city
countryIsoCode
cityTagId
regionName
regionTagId
regionCategory
batchId
geo
regionGeo
cityName
popularity
alias
categories
countryCategoryId
airportTagId
regionGeoId
airportCategoryId
countryCategory
cityCategory
countryTagId
codeshare
regionIdentifierCode
category

```
"filterFields":  
[  
  {  
    "name"  
    :  
    "airportCategoryId",  
  
    "values" :  
    ["category_1"]  
  },  
  {  
    "name"  
    : "cityTagId",  
  
    "values" :  
    ["tag_11"]  
  }  
]
```

No default


Distance-based Filtering

i Returns locations within a specific distance from a set of coordinates. The results may be limited, or never match, when used with additional location filtering that is in opposition.

Key	Value Type	Description	Example + Default
geoField	Object <i>Optional</i>	<p>geoField allows to configure a number of values to filter Airport results based on Geo-coordinates .</p> <p>Includes:</p> <ul style="list-style-type: none"> • name • value • geoFromIataCode • geoFromGeoId • geo.latitude • geo.longitude 	<pre>{ "geoField": { "name": "geo", "value": 500.00, "geo":{ "latitude": 25.77, "longitude": -11.23 } } }</pre> <p><i>No default</i></p>
geoField.name	String of enumeration <ul style="list-style-type: none"> • geo • cityGeo • stateGeo 	<p>Allows to specify at which hierarchy level the Geo-coordinate search will be done.</p> <p>Options include:</p> <ul style="list-style-type: none"> • geo Airport Level • cityGeo City Level • stateGeo State Level <p><i>Please note that the field is required when sending the geoField object.</i></p>	<pre>{ "geoField": { "name": "geo" } }</pre> <p><i>No default</i></p>
geoField. geoFromIataCode	String	<p>Allows to specify the Airport or City Iata Code. The output will return airports within the radius from the Iata Code sent in the request.</p> <p><i>When this field is sent the geo object is not required.</i></p>	<pre>"geoField": { "name": "geo", "value": 500.00, "geoFromIataCode": "MIA" }</pre> <p><i>No default</i></p>

<p>geoField. geoFromGeoId</p>	<p>String</p>	<p>Allows to specify the Geo ID. The output will return airports within the radius from the Geo ID sent in the request.</p> <p><i>When this field is sent the geo object is not required.</i></p>	<pre data-bbox="1057 138 1446 562">"geoField": { "name": "geo", "value": 500.00, "geoFromGeoId": "5128581" }</pre> <p data-bbox="1016 583 1109 604"><i>No default</i></p>
<p>geoField.value</p>	<p>Integer</p>	<p>Allows to specify the radius distance in miles. The output will return airports within the radius from the Geo-coordinates sent in the request.</p> <p><i>Please note that the field is required when sending the geoField object.</i></p>	<pre data-bbox="1057 625 1446 940">{ "geoField": { "value": 500.00 } }</pre> <p data-bbox="1016 961 1109 982"><i>No default</i></p>
<p>geoField.geo</p>	<p>Array of integer values Integer values include:</p> <ul data-bbox="391 1100 521 1142" style="list-style-type: none"> • longitude • latitude 	<p>Allows to specify the Geo-coordinates from which the airports will be returned.</p> <p><i>Please note that the field is required when sending the geoField object if geoField.geoFromIataCode OR geoField.geoFromGeoId is not included.</i></p>	<pre data-bbox="1057 1005 1446 1503">{ "geoField": { "geo":{ "latitude": 25.77, "longitude": -11.23 } } }</pre> <p data-bbox="1016 1524 1109 1545"><i>No default</i></p>

Additional Settings

 Additional settings to be able to control the start and size of the output.

Request Body Keys	Value Type	Description	Example + Default
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from	Integer <i>Optional</i>	Allows user to determine the first record. Starting at 0 starts at the beginning.	<pre>"size": 0</pre> <p><i>Default is example provided.</i></p>
size	Integer <i>Optional</i>	Allows user to determine the maximum number of airports returned in the response.	<pre>"size": 5000</pre> <p><i>No default</i></p>