Date :  23-02-2024

AI Weather by meteosource

version: 1.0.0

# **Overview:**

Accurate hyper-local weather forecasts, powered by our cutting-edge machine learning (ML) models. Historical weather, current weather, weather statistics, and hour-by-hour forecast - all weather data updated in real-time!

# **Getting Started:**

**A. Prerequisites:**

* Volt Foundry

**B. Importing the adapter:**

 **To import the Data Adapter to Volt Foundry, do the following:**

1. Sign in to the  [HCL Foundry](https://manage.hclvoltmx.com/).
2. From the left navigation menu, select **API Management**.
3. In **API Management**, select **Custom Data Adapters**.



1. Click **IMPORT** to import a custom data adapter.


2. On the Import Data Adapter dialog box, click browser to import.


3. Select AI Weather By Meteosource zip file and click **IMPORT**.

After you import the data adapter, Volt Foundry opens a window that shows the metadata of the data adapter.



After you import the data adapter, you can view it on the Custom Data Adapters page and use it to create services on Volt Foundry.



### **Creating an Integration service**

After you import the data adapter into Volt Foundry, you can use it to create an Integration Service.

Follow the given steps to create an Integration service using the AI Weather By Meteosource Adapter:

1. Sign in to the [HCL Foundry](https://manage.hclvoltmx.com/).
2. From the left navigation menu, select **API Management**.
3. In **API Management**, select **Integration**.



1. To create a new service, click the **+** button or the **CONFIGURE NEW** button.



1. On the Service Definition tab, select the service type as AI Weather By Meteosource and click **SAVE**.



Alternatively, you can also create a Foundry app and create an Integration service inside it.

**D.** **Creating and Executing operations**

After you create an integration service, you can create and execute operations using the service.

#### Creating an Operation

* In **API Management/Foundry app you created**, in the **Integration** section, select the service that you created.
* After you select the service, navigate to the **Operation List** tab.



* From the drop-down list, select an operation that you want to execute, and click **ADD OPERATION**.



#### Executing an Operation

* From the **Operations List** tab, in the **Configured Operations** section, select the operation you want to execute.



* On the Operation Page, in the Request Input tab, enter a TEST VALUE for all the fields in body and header.





* Select a run-time environment and click **Save and Fetch Response** to get a response based on your inputs.



## **E**. **Publishing your application**

If you want to use the services in client applications, you need to publish an app to a run-time environment. You can create the service (as described above) in an application or import the service into an application and publish the application.

# **References**

## Endpoint Documentation

## **Reference Link:** [AI Weather by Meteosource API Documentation (MeteosourceWeather) | RapidAPI](https://rapidapi.com/MeteosourceWeather/api/ai-weather-by-meteosource)

## **A. General properties:**

## **1.Location Endpoints:**

# **Get find places**

## This endpoint **Search places by name** to get **place\_id** for the Weather Forecast Endpoints and detailed **geographical information** (country, region, elevation, timezone, etc.) for a given location. The response can contain multiple places, sorted by relevance. You can then identify the one you want by coordinates, country, region, or type. Unlike the *find\_places\_prefix* endpoint, complete words are required here. You can search for cities, mountains, lakes, countries, etc.

## The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/find\_places

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| text | The Place name to search for | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| language | The language the place names. Available languages are en: English, es: Spanish, fr: French, de: German, pl: Polish, cs: Czech. | String | Yes |

# **Get find places Prefix**

1. This endpoint **Search places by beginning of the name** to get **place\_id** for the Weather Forecast Endpoints and detailed **geographical information** (country, region, elevation, timezone, etc.) for a given location. The response can contain multiple places, sorted by relevance. You can then identify the one you want by coordinates, country, region, or type. Unlike the *find\_places* endpoint, you can specify only the prefix of the place you are looking for. You can search for cities, mountains, lakes, countries, etc.

## 2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/find\_places\_prefix

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| text | The Place name to search for | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| language | The language the place names. Available languages are en: English,es: Spanish,fr: French,de: German,pl: Polish,cs: Czech | String | Yes |

# **Get NEAREST place**

1. This endpoint to search for the **nearest named place** (village/town/city) from a given GPS coordinates. You will get **place\_id** for the Weather Forecast Endpoints and detailed **geographical information**.

*Note: If you specify coordinates of a secluded place (e.g. middle of the ocean), the nearest point can be very far from the coordinates.*

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/nearest\_place

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4 | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4 | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| language | The language the place names. Available languages are en: English,es: Spanish,fr: French,de: German,pl: Polish,cs: Czech | String | Yes |

# **2. Astronomical Data:**

# **Get astro**

1. This endpoint returns global **Sun and Moon information** (sunrise/sunset, moonrise/moonset and moon phase) for the next 30 days. Define your location using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/astro

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| timezone | Timezone to be used for the date fields. If not specified, local timezone of the forecast location will be used. The format is according to the tzinfo database, so values like Europe/Prague or UTC can be used. Alternatively you may use the value auto in which case the local timezone of the location is used. The full list of valid timezone strings can be found [here](https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List). | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |

# **3. Past Weather Data:**

# **Get HISTORICAL WEATHER**

1. This endpoint receive **historical weather** data for a **given day** in the past **8 years**. Define your location using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/historical\_weather

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| date | The UTC Day of the data in the past in YYYY-MM-DD format. | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |

# **Get WEATHER sTATISTICS**

1. This endpoint get average weather: **long-term normals** for a given place for the next 30 days. Define your location using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/weather\_statistics

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |

# **4. Weather Forecast Endpoints:**

# **Get CURRENT**

1. This endpoint **Current weather** conditions based on weather stations around the world. Updated every 10 minutes. **Define your location** using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/current

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| timezone | Timezone to be used for the date fields. If not specified, local timezone of the forecast location will be used. The format is according to the tzinfo database, so values like Europe/Prague or UTC can be used. Alternatively you may use the value auto in which case the local timezone of the location is used. The full list of valid timezone strings can be found [here](https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List). | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |
| language | The language of text summaries (variable names are never translated). Available languages are:* en: English
* es: Spanish
* fr: French
* de: German
* pl: Polish
* cs: Czech
 | String | Yes |

# **Get minutely**

1. This endpoint **Minute-by-minute** precipitation forecast for the next 60 minutes. Updated in **real-time** based on our **AI nowcasting models**. **Define your location** using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/minutely

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| timezone | Timezone to be used for the date fields. If not specified, local timezone of the forecast location will be used. The format is according to the tzinfo database, so values like Europe/Prague or UTC can be used. Alternatively you may use the value auto in which case the local timezone of the location is used. The full list of valid timezone strings can be found [here](https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List). | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |
| language | The language of text summaries (variable names are never translated).  | String | Yes |

# **Get Hourly**

1. This endpoint **Hourly weather** forecast for the next 5 days. **Global** data are based on our **AI technology**, which uses many different models. **Define your location** using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/hourly

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| timezone | Timezone to be used for the date fields. If not specified, local timezone of the forecast location will be used. The format is according to the tzinfo database, so values like Europe/Prague or UTC can be used. Alternatively you may use the value auto in which case the local timezone of the location is used. The full list of valid timezone strings can be found [here](https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List). | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place. To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |
| language | The language of text summaries (variable names are never translated). Available languages are:* en: English
* es: Spanish
* fr: French
* de: German
* pl: Polish
* cs: Czech
 | String | Yes |

# **Get Daily**

1. This endpoint **Daily weather** forecast for the next 21 days. **Global** data are based on our **AI technology**, which uses many different models. **Define your location** using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/daily

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| units | Unit system to be used. The available values are:* auto: Select the system automatically, based on the forecast location.
* metric: Metric (SI) units (°C, mm/h, m/s, cm, km, hPa).
* us: Imperial units (°F, in/h, mph, in, mi, Hg).
* uk: Same as metric, except that visibility is in miles and wind speeds are in mph.
* ca: Same as metric, except that wind speeds are in km/h and pressure is in kPa.
 | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place.To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |
| language | The language of text summaries (variable names are never translated). Available languages are:* en: English
* es: Spanish
* fr: French
* de: German
* pl: Polish
* cs: Czech
 | String | Yes |

# **Get alerts**

1. This endpoint **Severe weather alerts** for the USA, Europe, and Canada. **Define your location** using GPS coordinates or place\_id from Location endpoints.

2.The endpoint is available through this URL:

 GET https://ai-weather-by-meteosource.p.rapidapi.com/alerts

## **Parameters**

When calling this endpoint, please refer to the following parameters.

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Description** | **Types** | **Required** |
| lat | Latitude in format 12N, 12.3N, 12.3, or 13S, 13.2S, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| lon | Longitude in format 12E, 12.3E, 12.3, or 13W, 13.2W, -13.4.  **Alternatively, you can specify the location by parameter place\_id.** | String | Yes |
| timezone | Timezone to be used for the date fields. If not specified, local timezone of the forecast location will be used. The format is according to the tzinfo database, so values like Europe/Prague or UTC can be used. Alternatively you may use the value auto in which case the local timezone of the location is used. The full list of valid timezone strings can be found [here](https://en.wikipedia.org/wiki/List_of_tz_database_time_zones#List). | String | Yes |
| X-RapidAPI-Key | Give details of the rapid Api key | String | Yes |
| X-RapidAPI-Host | Give details of the rapid Api host | String | Yes |
| place\_id | Identifier of a place.To obtain the place\_id for the location you want, please use Location endpoints. **Alternatively, you can specify the location by parameters lat and lon.** | String | Yes |
| language | The language of text summaries (variable names are never translated). Available languages are: en: English, es: Spanish, fr: French, de: German, pl: Polish, cs: Czech | String | Yes |

# **Revision History**

Adapter version 1.0.0:

## **Known Issues**

**-**

**B. Limitations**

**-**