About – Open weather

Access current weather data for any location on Earth including over 200,000 cities! collects and process weather data from different sources such as global and local weather models, satellites, radars and vast network of weather stations.

Getting Started with Open Weather

**Authentication**

The following parameter is necessary to get weather information:

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter Name** | **Where to find it** | **Additional information** | **Required** |
| appid | you can always find it on your account page under the "API key" tab | Your unique API key | Yes |

**Endpoints**

| **Report Name** | **Description** | **Endpoint URL(s)** | **Additional Parameters** |
| --- | --- | --- | --- |
| Current weather data by City name | Returns current weather data for single location mentioned by City name. | /weather | 1. q 2. appid 3. mode 4. units 5. lang |
| Current weather data by City ID | Returns current weather data for single location mentioned by City ID. | /weather | 1. id 2. appid 3. mode 4. units 5. lang |
| Current weather data by geographical coordinates. | Returns current weather data for single location mentioned by City’s geographical coordinated. | /weather | 1. lat , lon 2. appid 3. mode 4. units 5. lang |
| Current weather data by zip code. | Returns current weather data for single location mentioned by City ZIP code. | /weather | 1. zip 2. appid 3. mode 4. units 5. lang |
| Current weather data for cities within a rectangle zone. | Returns the data from cities within the defined rectangle specified by the geographic coordinates. | /box/city | 1. 1. bbox 2. 2. appid 3. 3. units 4. 4. Lang |
| Current weather data for cities in circle. | returns data from cities laid within definite circle that is specified by center point (lat, lon) and expected number of cities (cnt) around this point. | /find | 1. lat , lon 2. appid 3. cnt 4. mode 5. units 6. lang |
| Current weather data for cities with IDs. | Return data from several cities by their city IDs. | /group | 1. id 2. appid 3. units 4. lang |

**Relevant data and query parameters**

| **Report Name** | **Parameters (\* indicates required)** | **Where to find it?** | **Description** | **Example** |
| --- | --- | --- | --- | --- |
| * Current weather data by City name | q | Textbox can be used for entering city name. | City name, state code and country code divided by comma, use ISO 3166 country codes.  You can specify the parameter not only in English. In this case, the API response should be returned in the same language as the language of requested location name if the location is in our predefined list of more than 200,000 locations. | 1. London 2. London,uk |
| * Current weather data by City name * Current weather data by City ID * Current weather data by geographical coordinates. * Current weather data by zip code. * Current weather data for cities within a rectangle zone. * Current weather data for cities in circle. * Current weather data for cities with IDs. | units | Dropdown list can be used to select unit of measurement from available options. | Units of measurement. standard, metric and imperial units are available. If you do not use the units parameter, standard units will be applied by default. | 1. standard |
| * Current weather data by City name * Current weather data by City ID * Current weather data by geographical coordinates. * Current weather data by zip code. * Current weather data for cities within a rectangle zone. * Current weather data for cities in circle. * Current weather data for cities with IDs. | lang | Dropdown list can be used to select desired language from available options. All the supported languages can be found here: <https://openweathermap.org/current#multi> | You can use this parameter to get the output in your language. | 1. Fr 2. af |
| * Current weather data by City ID * Current weather data for cities with IDs. | id | Tree Menu Discovery can be used for selecting city IDs. All the available city IDs can be found here: <http://bulk.openweathermap.org/sample/> | City ID.  The limit of locations is 20 for when data of several cities required. | 1. 4002796 2. 3759327 |
| * Current weather data by geographical coordinates. * Current weather data for cities in circle. | lat , lon | Two separate textboxes can be used for entering latitude & longitude. | Geographical coordinates (latitude, longitude) | 1. lat=35&lon=139 |
| * Current weather data by zip code. | zip | Textbox can be used for entering ZIP code followed by country code. | Zip code | 1. zip=94040,us |
| * Current weather data for cities within a rectangle zone. | bbox | Textbox can be used to enter values for lon-left, lat-bottom, lon-right, lat-top, zoom. Seperated with commas. | Bounding box [lon-left,lat-bottom,lon-right,lat-top,zoom] | bbox=12,32,15,37,10 |
| * Current weather data for cities in circle. | cnt | Textbox can be used for entering center point for circle. | Number of cities around the point that should be returned. The default number of cities is 5, the maximum is 50. | cnt=10 |

**Backfill**

NA

**Rate Limit**

NA

**Limitations**

NA

**Non-Functional Requirements**

NA

Technical

API Access

**Data that can be extracted**

collect and process weather data from different sources such as global and local weather models, satellites, radars and vast network of weather stations. Data is available in JSON, XML, or HTML format. We will use json format for this connector.

**API Supported**

The RESTful API is available for fetching data.

**Authentication**

Authentication is required by the platform using appid .

**Base URL**

api.openweathermap.org/data/2.5

**Internally Handled Report Parameters**

| **Report Name** | **Parameter ( \* indicates required)** | **description** | **example usage** |
| --- | --- | --- | --- |
| * Current weather data by City name * Current weather data by City ID * Current weather data by geographical coordinates. * Current weather data by zip code. * Current weather data for cities in circle. | mode | Response format. Possible values are xml and html. If you don't use the mode parameter format is JSON by default. | 1. Html 2. Xml 3. JSON |

**Data parsing**

Returned data is parsed using the JSON parser.

**Support for paging**

Paging is not supported.

Version

| **Currently published artifact name** | **Version Number** |
| --- | --- |
|  | 0.0 |

Test Criteria

Testing is not done using test creds.

References

API documentation is available online at: https://openweathermap.org/current#one

KBR (key business requirements)

| **Requirement** | **Description** | **Corresponding endpoint** |
| --- | --- | --- |
|  |  |  |