



Location Service - Search and Point - v3.0

Domain Portfolio: Utility | Domain: Search | Usage Classification: Standard

Geography: Global

Attribution Required: N/A

Attribution Requirements: N/A

Overview

The Location Service APIs provide the ability to lookup a location name or geocode (latitude and longitude) to retrieve a set of locations matching the request. The Location Service supports search by; City Name, Address, Geocode (Latitude and Longitude), Postal Key, IATA Code, and ICAO Code. Note: Locations over a body of water will generate a 404 error.

The Location Search API provides the ability to pass location search input parameters from users, applications or other systems and retrieve a set of locations from the TWC Location Master database. The parameters accepted are city, address, and poi. It also returns related information about these locations for distribution to any TWC platform. This API will return a list of locations matching the search string. For example, passing the character string "atla" would match to the city names "Atlanta, Georgia, USA" and "Atlantic City, New Jersey, USA".

The Location Point API provides detailed location data for a specific point on the map, searchable by Geocode, Location ID, Postal Key, IATA Code, ICAO Code, and Place ID. The response can provide details for up to four levels of 'locale' as indicated below.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see [The Weather Company Data | API Common Usage Guide](#).

Translated Fields:

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be passed along (see the language code table for the supported codes).

- address
- adminDistrict
- country

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Location Service - Search

URL Construction

Request by City Name: Required Parameters: query , language , format Optional Parameters: countryCode , adminDistrictCode , locationType=(address, city, locality, locid, poi, pws, state) Returns an information in an array for search string ="atlanta" and locationType filter applied as locationType = "city". The optional parameters further refine search response. locationType accepts multiple values. poi = Point of Interest-Optional Parameter value: Queries including `locationType=poi` return the closest point of interest record(s) to the location included in the search.	Aggregate Product Name
https://api.weather.com/v3/location/search?query=atlanta&locationType=locid&language=en-US&format=json&apiKey=yourApiKey	v3-location-search
https://api.weather.com/v3/location/search?query=Lincoln Memorial Circle SW&locationType=address&language=en-US&format=json&apiKey=yourApiKey	

Data Elements & Definitions - Location Service - Search

Field Name	Description	Type	Range	Sample	Nulls Allowed
location	Object for location data	object			
address	Locale level location detail.	[string]		Atlanta, Georgia, United States	Y
adminDistrict	The internationalized State, Region, District or Province identifier for 'state' or geopolitical area. - level 1 administrative division.	[string]	Any valid state, region, district or province name.	Georgia,	Y
adminDistrictCode	The identifier code for 'state' or geopolitical area. - level 1 administrative division.	[string]	US states only.	GA,	Y
airportName	The airport name associated to the (ICAO / IATA) airport code.	[string]	Any valid airport name.	Hartsfield-Jackson Intl,	Y
city	Full name of location City	string	Any valid city name.	Atlanta,	Y
country	Full name of location Country	[string]	Any valid country name.	United States,	Y
countryCode	ISO Country Code	[string]	Any valid ISO country code.	US,	Y
displayName	The common display name for a location.	[string]	Any valid location display name.	Atlanta	Y
disputedArea	Point falls in an area with political sensitivity.	[boolean]	true, false	false	Y
disputedCountries	List of countries claiming territory in the provided disputedArea. Note: Currently only available for disputedAreas with India, Israel, South Korea, Taiwan	[string]	Any valid country name.	United States,	Y
disputedCountryCodes	List of ISO country codes representing the disputedCountries.	[string]	Any valid ISO country code.	US,	Y
disputedCustomers	Customer identifier for custom logic pertaining to areas with political sensitivity.	[string]	Any valid internal code.	ABC,	Y
disputedShowCountry	Customer designation for display of country names.	[boolean]	true, false	false,	Y
ianaTimeZone	The standard IANA Time Zone for the location requested. Note: Points over large bodies of water will return a numerical string as a time offset from UTC.	[string]	Any valid IANA time zone.	America/New_York,	Y
icaoCode	4-digit airport code.	[string]	Any valid icaoCode	KATL	Y
iataCode	3-digit airport code.	[string]	Any valid iataCode	ATL	Y
latitude	Center latitude coordinate of the requested location.	[decimal]	Any valid latitude value.	33.638271,	N
locationCategory	A sub-type of the 'type' field that describes a more specific grouping for the location record. Currently returns a non-null response when "type"= "poi". In all other instances, this field will return 'null'.	[string]	Any valid locationCategory	national park	Y
locld	Legacy TWC location identifier corresponding to a unique location record. This location type is provided to ensure compatibility with legacy queries.	[string]	Any valid locld	USWY0183:1:US	Y

longitude	Center longitude coordinate of the requested location.	[decimal]	Any valid longitude value.	-84.429369,	N
neighborhood	The recognized Neighborhood name of the requested location.	[string]	Any valid neighborhood name.	Eagan Park,	Y
postalCode	The Postal Code of the requested location.	[string]	Any valid postal code.	30337,	Y
postalKey	Postal Key is a composite location identifier key of <Postal Code>:<Country Code>	[string]	Any valid postal key value.	30337:US,	Y
placeId	A unique place identifier	[string]	Unique Place Identifier	25d07eca1bcda02800c1a9e699d7eb1c8132cad9bc2d6efa8a2531f0ee4a81cd	N
pwsId	Personal Weather Station identifier	[string]	Any valid pwsId	KTXSANMA13	Y
type	Geospatial definition for the location record. (location type).	[string]	Any valid type	city, address, poi	N
locale	Object for additional city & sub-city locale information.	[array]			
locale1	City or Sub-City locale information - depending on country. Broadest area local. (district)	string	Any valid city or sub-city locale		Y
locale2	City or Sub-City locale information - depending on country. 1 level more granular than 'locale1' (city)	string	Any valid city or sub-city locale		Y
locale3	City or Sub-City locale information - depending on country. 1 level more granular than 'locale2' (locality)	string	Any valid city or sub-city locale		Y
locale4	City or Sub-City locale information - depending on country. Smallest area local. (neighborhood)	string	Any valid city or sub-city locale		Y

JSON Sample - Location Service - Search

// Response Collapsed for Presentation Purposes

```
{
  location: {
    address: ["Atlanta, Georgia, United States"],
    adminDistrict: ["Georgia"],
    adminDistrictCode: ["GA"],
    city: ["Atlanta"],
    country: ["United States"],
    countryCode: ["US"],
    displayName: ["Atlanta"],
    ianaTimeZone: ["America/New_York"],
    latitude: [33.749],
    locale: [{locale1: null, locale2: "Atlanta", locale3: null, locale4: null}],
    longitude: [-84.39],
    neighborhood: [null],
    placeId: ["8f5c8f0c5dd7699966caf7dcb4880c3847a86092521a187546b808f3023b9120"],
    postalCode: ["30303"],
    postalKey: ["30303:US"],
    iataCode: ["ATL"],
```

```

    icaocode: ["KATL"],
    disputedArea: [false],
    disputedCountries: [null],
    disputedCountryCodes: [null],
    disputedCustomers: [null],
    disputedShowCountry: [[false]],
    locid: [null],
    locationCategory: [null],
    pwsld: [null],
    type: ["city"]
  }
}

```

Location Service - Point

URL Construction

Search by Geocode: Required Parameters: geocode , language , format Returns information for search string ="geocode".	Aggregate Product Name
https://api.weather.com/v3/location/point?geocode=33.74,-84.39&language=en-US&format=json&apiKey=yourApiKey	v3-location-point
Search by Location ID: Required Parameters: locid , language , format Returns information for search locid = "USWY0183:1:US".	Aggregate Product Name
https://api.weather.com/v3/location/point?locid=USWY0183:1:US&language=en-US&format=json&apiKey=yourApiKey	v3-location-point
Search by Postal Key: Required Parameters: postalKey , language , format Returns information for search string postalKey = "30339:US" Postal Key is a composite of <Postal Code>:<Country Code>	Aggregate Product Name
https://api.weather.com/v3/location/point?postalKey=30339:US&language=en-US&format=json&apiKey=yourApiKey	v3-location-point
Search by IATA Code [location/point only] : Required Parameters: iataCode , language , format Returns information for search string = "ATL"	Aggregate Product Name
https://api.weather.com/v3/location/point?iataCode=ATL&language=en-US&format=json&apiKey=yourApiKey	v3-location-point
Search by ICAO Code [location/point only]: Required Parameters: icaocode , language , format Returns information for search string = "KATL"	Aggregate Product Name
https://api.weather.com/v3/location/point?icaocode=KATL&language=en-US&format=json&apiKey=yourApiKey	v3-location-point

Search by Place ID: Required Parameters: placeid , language , format Returns information for search string = ee0214ae7fb1d265f3e4d2509e77557119b2cac9d0ac1013b593c74a1567f2b7	Aggregate Product Name
https://api.weather.com/v3/location/point?placeid=ee0214ae7fb1d265f3e4d2509e77557119b2cac9d0ac1013b593c74a1567f2b7&language=en-US&format=json&apiKey=yourApiKey	v3-location-point

Data Elements & Definitions - Location Service - Point

Field Name	Description	Type	Range	Sample	Nulls Allowed
location	Object for location data	object			
address	Locale level location detail.	string		Atlanta, Georgia, United States	Y
adminDistrict	The internationalized State, Region, District or Province identifier for 'state' or geopolitical area. - level 1 administrative division.	string	Any valid state, region, district or province name.	Georgia,	Y
adminDistrictCode	The identifier code for 'state' or geopolitical area. - level 1 administrative division.	string	US states only.	GA,	Y
airportName	The airport name associated to the (ICAO / IATA) airport code. Note: Only returned when the iataCode or ianaCode query parameter is used in the request.	string	Any valid airport name.	Hartsfield-Jackson Intl,	Y
canonicalCityId	A city level place identifier. The canonical city id encompasses lower level place types. Note: This value should be used for SEO purposes only.	string	Any valid canonicalCityId	b9561b6ddb213b878ba672863570cf55d936ecb80cacd7fe8c45fe9379288343	Y
city	Full name of location City	string	Any valid city name.	Atlanta,	Y
countyId	Governmental assigned county identifier. Internal use only	string	Any valid County ID	FLC117,	Y
country	Full name of location Country	string	Any valid country name.	United States,	Y
countryCode	ISO Country Code	string	Any valid ISO country code.	US,	Y
displayName	The common display name for a location.	string	Any valid location display name.	Atlanta,	Y
disputedArea	Point falls in an area with political sensitivity.	boolean	true, false	false,	Y
disputedCountries	List of countries claiming territory in the provided disputedArea. Note: Currently only available for disputedAreas with India, Israel, South Korea, Taiwan	[string]	Any valid country name.	United States	Y
disputedCountryCodes	List of ISO country codes representing the disputedCountries.	[string]	Any valid ISO country code.	US	Y
disputedCustomers	Customer identifier for custom logic pertaining to areas with political sensitivity.	[string]	Any valid internal code.	ABC	Y

disputedShowCountry	Customer designation for display of country names.	[boolean]	true, false	false	Y
dmaCd	DMA Code. Internal use only. A Designated Market Area (DMA) is a group of counties in the United States that are covered by a specific group of television stations. The term was coined by Nielsen Media Research, and they control the trademark on it. There are 210 DMAs in the United States.	string	Any valid DMA Code	534	Y
dstEnd	The date time which the location ends daylight savings time observation.	ISO	Any valid ISO date time.	2017-11-05T01:00:00-0500	Y
dstStart	The date time which the location starts daylight savings time observation.	ISO	Any valid ISO date time.	2017-03-12T03:00:00-0400	Y
ianaTimeZone	The standard IANA Time Zone for the location requested. Note: Points over large bodies of water will return a numerical string as a time offset from UTC.	string	Any valid IANA time zone or UTC offset.	America/New_York,	Y
iataCode	The International Air Transport Association (IATA) airport codes of the requested location. Note: Only returned when the iataCode query parameter is used in the request.	string	Any valid IATA code.	ATL,	Y
icaoCode	The International Civil Aviation Organization (ICAO) airport codes of the requested location. Note: Only returned when the icaoCode query parameter is used in the request.	string	Any valid ICAO code.	KATL,	Y
latitude	Center latitude coordinate of the requested location.	decimal	Any valid latitude value.	33.63,	N
locld	Legacy TWC location identifier corresponding to a unique location record. This location type is provided to ensure compatibility with legacy queries.	string	Any valid locld	USWY0183:1:US	Y
locationCategory	A sub-type of the 'type' field that describes a more specific grouping for the location record. Currently returns a non-null response when "type"= "poi". In all other instances, this field will return 'null'.	string	Any valid locationCategory	national park	Y
longitude	Center longitude coordinate of the requested location.	decimal	Any valid longitude value.	-84.42,	N
neighborhood	The recognized Neighborhood name of the requested location.	string	Any valid neighborhood name.	Eagan Park,	Y
placeId	A unique place identifier	string	Unique Place Identifier	25d07eca1bcda02800c1a9e699d7eb1c8132cad9bc2d6efa8a2531f0ee4a81cd	N
pollenId	The pollen station identifier. Only valid in the United States.	string	Any valid pollenId	ATL	Y
postalCode	The Postal Code of the requested location.	string	Any valid postal code.	30337,	Y
postalKey	Postal Key is a composite location identifier key of <Postal Code>:<Country Code>	string	Any valid postal key value.	30337:US,	Y
pwsId	Personal Weather Station identifier	string	Any valid pwsId	KTXSANMA13,	Y
regionalSatellite	A TWC defined area that identifies a satellite region on the globe.	string	Any valid reginal satellite value.	se	Y
tidId	The tide station identifier. Only available for locations near coastlines	string	Any valid tidId	8729511	Y
type	Geospatial definition for the location record. (location type).	string	Any valid type	city, address, poi,neighborhood, state	N
zonId	Government assigned location identifier	string	Any valid zonId	GAZ033,	Y

locale	Object for additional city & sub-city locale information.	object			
locale1	City or Sub-City locale information - depending on country. Broadest area local. (district)	string	Any valid city or sub-city locale		Y
locale2	City or Sub-City locale information - depending on country. 1 level more granular than 'locale1' (city)	string	Any valid city or sub-city locale		Y
locale3	City or Sub-City locale information - depending on country. 1 level more granular than 'locale2' (locality)	string	Any valid city or sub-city locale		Y
locale4	City or Sub-City locale information - depending on country. Smallest area local. (neighborhood)	string	Any valid city or sub-city locale		Y

JSON Sample - Location Service - Point

// Response Collapsed for Presentation Purposes

```
{
  location: {
    latitude: 28.756,
    longitude: -81.322,
    city: "Lake Mary",
    locale: {
      locale1: null,
      locale2: "Lake Mary",
      locale3: null,
      locale4: null
    },
    neighborhood: null,
    adminDistrict: "Florida",
    adminDistrictCode: "FL",
    postalCode: "32746",
    postalKey: "32746:US",
    country: "United States of America",
    countryCode: "US",
    ianaTimeZone: "America/New_York",
    displayName: "Lake Mary",
    dstEnd: "2019-11-03T01:00:00-0500",
    dstStart: "2019-03-10T03:00:00-0400",
    dmaCd: "534",
    placeId: "04e257d440ab656b61dad6432d2009c58aa9ebc939bbdf0262bd21110c90aca0",
    disputedArea: false,
    disputedCountries: null,
    disputedCountryCodes: null,
    disputedCustomers: null,
    disputedShowCountry: [false],
    canonicalCityId: "b9561b6ddb213b878ba672863570cf55d936ecb80cacd7fe8c45fe9379288343",
    countyId: "FLC117",
  }
}
```

```
locl: null,  
locationCategory: null,  
pollenId: "ORL",  
pwsId: null,  
regionalSatellite: "se",  
tidId: "8721222",  
type: "city",  
zoneId: "FLZ046"
```

```
}
```

```
}
```