Geocode Service

REST API · https://www.easyterritory.com/documentation/easyterritory-rest-api/call-easyterritory-geocoding-web-service/

The Geocoding Service converts street addresses into their latitude/longitude equivalents. This enables you to plot records on a map or use them in spatial queries.

Note: To use this service, you'll need to get your Azure Maps key from the Territory Designer administration panel.

Initial Setup

No authentication/ OI token needed. Access to the service is authorized using the Azure Maps key.

Geocode Service Endpoint

```
POST https://apps.easyterritory.com/{YourGuid}/{YourEZTInstanceType}/REST/Geocode/
```

Notes:

- {YourGuid} → Your EasyTerritory GUID.
- {YourEZTInstanceType} → One of [DEV], [TEST], or [APP] (APP = Production).

Request Headers

- Media Types: "application/json"

Request Body

```
{
keyCustomer?: string;
keyBing?: string;
keyAzure?: string;
defaultCountryCode?: string;
enableAddressFallback?: boolean;
addressList: string[];
```

```
}
```

Name	Required	Type	Description
keyCustomer	No	String	Unique identifier for caching and customer tracking. Can be any unique value.
keyBing	No*	String	Bing Maps key. Provide **keyBing** or **keyAzure** (one provider key required).
keyAzure	No*	String	Azure Maps key. Provide **keyAzure** or **keyBing** (one provider key required).
defaultCountryCode	No	String	Default country code used for geocoding.
enableAddressFallback	No	Boolean	If a geocode attempt fails, use street, city, and state as fallback inputs for subsequent attempts.
addressList	Yes	String[]	Array of address records to geocode.

iGeocodeResult Response

```
{
addressStandardized?: string;
addressCorrected?: string;
addressLine?: string;
country?: string;
adminLevel1?: string;
adminLevel2?: string;
locality?: string;
postalCode?: string;
locationMerc?: { x: number, y: number };
location?: { lon: number, lat: number };
finalProvider?: string;
didFallback?: boolean;
quality?: eGeocodeQuality;
qualityString?: string;
timeStampUtc?: number;
msToComplete?: number;
shouldRetry?: boolean;
warning?: string;
```

```
error?: string;
}
```

Name	Description
addressStandardized	Standardized input address.
addressCorrected	Corrected geocoded address.
addressLine	Main street-level portion of the geocoded address.
country	Geocoded country.
adminLevel1	Geocoded state.
adminLevel2	Geocoded county.
locality	Geocoded city.
postalCode	Geocoded ZIP 5.
locationMerc	Geocoded location in spherical Mercator (Web Mercator, EPSG:3857). Values are **x** (easting) and **y** (northing) in meters.
location	Geocoded location as latitude and longitude (WGS84). Latitude is north–south; longitude is east–west.
finalProvider	Provider that produced the final geocode result (after any fallbacks or retries).
didFallback	Whether the result came from falling back to an alternate provider or method.
quality	Geocode quality/precision: **failed**, **suboptimal**, or **optimal**.
qualityString	Text representation of geocode quality for display or logging.
timeStampUtc	UTC timestamp when the geocode completed, in milliseconds since the Unix epoch.
msToComplete	Time taken to complete the geocode request, in milliseconds.
shouldRetry	Whether the client may safely retry the request (typically for transient failures).
warning	Warning message for non-fatal issues during geocoding.
error	Error message describing why the request failed, if applicable.

Sample Request

```
POST /12345678-1234-1234-1234-123456789abc/APP/REST/Geocode/ HTTP/1.1
Host: apps.easyterritory.com
Content-Type: application/json
{
  "keyAzure": "12345678910111213141516181920",
  "defaultCountryCode": "US",
  "enableAddressFallback": true,
  "addressList": [
    "400 S Monroe St, Tallahassee, FL 32399"
  ]
}
```

Sample Response


```
{
"results": [
{
"addressStandardized": "400 S Monroe St, Tallahassee, FL 32399",
"addressCorrected": "400 S Monroe St, Tallahassee, FL 32399, United States",
"addressLine": "400 S Monroe St",
"country": "United States",
"adminLevel1": "Florida",
"adminLevel2": "Leon County",
"locality": "Tallahassee",
"postalCode": "32399",
"locationMerc": {
"x": -9382600.25,
"y": 3530700.75
},
"location": {
"lon": -84.2813,
"lat": 30.4381
},
"finalProvider": "AzureMaps",
"didFallback": false,
"quality": "optimal",
"qualityString": "Optimal",
"timeStampUtc": 1732118400000,
"msToComplete": 137,
```

```
"shouldRetry": false,
"warning": "",
"error": ""
}
],
"rowCount": 1,
"hasRowErrors": false,
"error": ""
}
```