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Global Intuitive

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Overview

Global Intuitive (also referred to as REST v2) is a fast and efficient REST API for capturing validated global addresses. Get up and running in minutes with our client-side JavaScript [sample code](https://github.com/experiandataquality/globalintuitive).

The API is designed and optimised to be integrated as a predictive style address capture solution. The simple workflow combined with simple API requests make integrating Global Intuitive into your system a pain-free process. With just two resources (GET /Search and GET /Format) it is easy to build your requests and get the best global address capture user experience.

This API uses TLS 1.2 encryption. [Find out more](https://www.edq.com/documentation/tls-upgrade/).

Workflow

The recommended workflow (as demonstrated by our sample code) is:

1. Make a GET /Search request for each keystroke the user enters into your address capture field. Each request will comprise of the 3-digit ISO code of the country the user is searching on, the current text entered in the field and the number of suggestions to return. We recommend that you cancel any unfinished requests upon additional keystrokes.
2. Display the address suggestions to the user beneath the address capture field.
3. Make a GET /Format request when the user selects their address from the suggestions. The URL for this request is returned as part of the search suggestions.
4. Display the selected address back to the user. You can do this by populating your relevant address fields or displaying outside of your form.
5. Store the relevant address components in your database if required.

Sample code

Global Intuitive JavaScript sample code is hosted on our GitHub repository. The sample code is open sourced and includes information on how to get up and running quickly and how to modify and contribute to the code.

[Get sample code](https://github.com/experiandataquality/GlobalIntuitive)

Postman collections

We now have pre-configured [Postman](https://www.getpostman.com/) collections for our APIs.

You can quickly test out the requests and responses and see how the API behaves. Simply import the relevant collections, add your token as a variable and start making requests with your desired parameters.

[Get Postman collections](https://github.com/experiandataquality/postman-collections)

Authentication

An Auth-Token is used to authenticate the service. Your Auth-Token must be specified in the request header or passed as a query parameter in the URL.

Existing customers can view and manage their tokens via the [Self Service Portal](https://portal.experianmarketingservices.com/). For more information about tokens visit our [portal help](https://www.edq.com/documentation/self-service-portal/)page.

Permitted URLs

We strongly recommended that you specify the permitted URLs to be used for address capture. This is essential to prevent fraudulent use of your [token](https://www.edq.com/documentation/self-service-portal/#tokens) on another domain by ensuring that only requests made from your specified URLs are authenticated. See our [portal help](https://www.edq.com/documentation/self-service-portal/) page for more information about tokens and instructions on how to set your permitted URLs.

API reference

The Global Intuitive API reference defines the available resources, parameters and the expected response values.

The length and format of IDs are subject to change without prior notice. Caching or validation rules should not be implemented for IDs.

**api.edq.com/capture/address/v2**

Schemes

Authorize

[Endpoints](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#/Endpoints)

**GET**[**/search**](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#/Endpoints/Search)

Search for an address

**GET**[**/format**](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#/Endpoints/Format)

Format an address

[View specification](https://www.edq.com/globalassets/documentation/swagger/global-intuitive-swagger.json)

Datasets

The optional dataset parameter allows you to specify the dataset the address you're searching for is sourced from.

Currently, dataset supports 3 countries:

* Australia
* Ireland
* New Zealand

The table below contains information about the dataset values you can specify for each country.

| Country | Value | Description |
| --- | --- | --- |
| Australia | "DataFusion" | Dataset which consists of both PAF and G-NAF data. Also known as the AUE dataset. |
| "GNAF" | Australia's Geocoded National Address File (G-NAF) dataset. Also known as the AUG dataset. |
| "PAF" | Australia Post's Postal Address File (PAF) dataset. Also known as the AUS dataset. |
| Ireland | "Eircode" | Ireland's postcodes (Eircodes) dataset. |
| "PAF" | Ireland's Postal Address File (PAF) dataset. |
| New Zealand | "DataFusion" | Dataset which contains additional, postally non-deliverable addresses that are not included in the PAF data. Also known as the NZD dataset. |
| "PAF" | New Zealand's Postal Address File (PAF) dataset. Also known as the NZL dataset. |

Note: The dataset you specify when sending a search request will also be used for the format call. If you don't specify a dataset, the default value, "PAF", will be used.

Format response components

When a successful Format request is made, three collections will be returned.

Address

The Address collection comprises up to seven address lines representing a formatted address for the chosen country. The first three address lines will be comprised of a number of specific components relating to the premises and street. The next four lines contain the locality, province, postal code and country. Country specific information for our most popular countries is shown below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | United Kingdom | United States | Canada | Australia | New Zealand | France | Rest of World |
| addressLine1 | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line |
| addressLine2 | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line |
| addressLine3 | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line | Auto Line |
| locality | Town | City Name | Municipality | Locality | Suburb/Lobby Name/Rural Delivery | Town | Locality |
| province |  | State Code | Province Code | State Code | City |  | Province |
| postalCode | Postcode | Zip - Zip+4 Code | Postal Code | Postcode | PostalCode | Postcode | Postal Code |
| country | Country | Country | Country | Country | Country | Country | Country |

Components

The Components collection comprises a number of specific address components. Each individual component can be added to relevant fields in your database. Each component will differ slightly from country to country. Any components that are blank for the selected address will not be returned by the API. The full list of components with details for our most popular countries plus a rest of world column for all other supported countries can be found below. The components that are returned will depend on the level of coverage available in the data.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | United Kingdom | United States | Canada | Australia | New Zealand | France | Rest of World |
| deliveryService1 | Delivery Service Identifier | PO Box | Route Service Type/Number | All Postal Delivery Types | All Postal Delivery Types | All PO Box Types |  |
| deliveryService2 |  |  | PO Box |  |  |  |  |
| deliveryService3 |  |  | Delivery Service Type/Name |  |  |  |  |
| deliveryService4 |  | Box Number |  |  |  |  |  |
| deliveryPointID1 |  |  |  | Delivery Point Identifier |  |  |  |
| subBuilding1 | Extension Designation | Secondary Number | Suite Name/Number | Flat/Unit Name | Unit Textual + Unit alpha-num | Secondary Number + Secondary Number Ext | Secondary Address Units e.g. Apartments, Suites, Units etc. |
| subBuilding2 |  |  |  | Building Level | Floor Number |  |  |
| subBuilding3 |  |  |  | Sub-Building Number | Sub-Building Number |  |  |
| subBuilding4 |  |  |  | Building Name 2 |  |  |  |
| building1 | Building |  |  | Building Name | Building Name |  | Building Name |
| organisation1 | Organisation Name |  |  |  |  | Company Name |  |
| organisation2 | Department |  |  |  |  | Department Name |  |
| organisation3 |  |  |  |  |  |  |  |
| organisation4 |  |  |  |  |  |  |  |
| streetNumber1 | Street Number | Primary Number | Street Number + Suffix | Building Number | Street Number | Number + Number Extension | Address/House Number |
| streetNumber2 |  |  |  | Allotment Number |  |  |  |
| street1 | Primary Thoroughfare Name & Type | Street | Street | Street | Street | Street | Street |
| street2 | Secondary Thoroughfare Name & Type |  |  |  |  |  |  |
| locality1 | Town | City Name | Municipality | Locality | Suburb | Town | Town/City |
| locality2 | District Level 1 (dependent location 1) |  | Delivery Installation |  | Lobby Name | Cedex Office | Settlement |
| locality3 | District Level 1 (dependent location 2) |  |  |  | PNR Lobby Name | Additional Geographic Data |  |
| locality4 |  |  |  |  | Rural Delivery | Submitted Postal Locality/Geographic Town |  |
| county1 |  | County Name |  |  |  |  | County |
| province1 |  |  |  | State Name | City | Departement | Province/State |
| provinceCode1 |  | State Code | Province Code | State Code |  | INSEE code |  |
| postalCode1 | Postcode | Zip - Zip+4 Code | Postal Code | Postal Code | Postcode | Postcode | Postal Code |
| country1 | Country Name | Country Name | Country Name | Country Name | Country Name | Country Name | Country Name |
| countryISO1 | Three Character ISO Country Code | Three Character ISO Country Code | Three Character ISO Country Code | Three Character ISO Country Code | Three Character ISO Country Code | Three Character ISO Country Code | Three Character ISO Country Code |

Metadata

The Metadata object contains relevant metadata for the returned address. The metadata can be stored in your database or used to decide if the address should be rejected.

The current metadata available is:

* Delivery Point Validation (DPV). Only returned for addresses in the USA.
* addressSource. Only returned for addresses in Australia.

For all other countries, an empty metadata object will be returned.

DPV data

The table below describes the DPV data that is returned inside the metadata object.

|  |  |  |
| --- | --- | --- |
| Property Name | Description | Example |
| cmraIndicator | Indicates whether the selected address is a Commercial Mail Receiving Agency. | Y |
| seedIndicator | Indicates if the address selected is a seed address. | Y |
| dpvIndicator | Indicates whether the selected address is DPV confirmed. | Y |
| footnotes | The footnotes contain extra information returned by the DPV lookup. | AA, M3 |
| vacancyIndicator | Indicates if the address selected is known to be vacant and not receiving mail deliveries. | Y |
| noStatsIndicator | Indicates known addresses not receiving mail deliveries, for example an address for a house still under construction. | Y |
| pbsaIndicator | Indicates addresses known to be Post Office Box Street Addresses (PBSA). | Y |

addressSource data

The table below describes the addressSource data that is returned inside the metadata object.

|  |  |  |
| --- | --- | --- |
| Property Name | Description | Example |
| code | Indicates whether the address is sourced from:   * PAF data only (P). * G-NAF data only (G). * both (PG). * both, but the level information is exclusive to the PAF data (PGB). | PG |
| description | A description of the code. | Address exists on both PAF and G-NAF |

Response codes

| Status Code | Description |
| --- | --- |
| 200: OK | Request processed successfully. |
| 400: Bad Request | Request failed due to malformed syntax. |
| 401: Unauthorized | Auth-Token provided is incorrect. |
| 403: Forbidden | Request is not authorized to use the service. |
| 404: Not Found | The requested resource could not be found but may be available again in the future. Subsequent requests by the client are permissable. |
| 500: Internal Server Error | The server has encountered an error. |
| 502: Bad Gateway | Provider failure. |

Upgrading from existing services

If you are looking to upgrade from Pro Web or Address Validate API SOAP (Formerly known as Pro On Demand) to Global Intuitive you will need to understand the differences in integration approach and how to prepare for this.

Considerations

* User Experience (UX) - requires a change in workflow; changes to the user input form are required.
* Global Intuitive is much more interactive compared with previous versions of Address Validate API SOAP, therefore more requests are made.
* Implementation change - going from SOAP to RESTful web services.
* Global Intuitive forgoes the traditional address layout functionality in favour of returning a global 7 line address collection along with a full component breakdown. The 7 lines are for displaying back to the end user whilst the full component collection allows for specific components to be entered in to relevant database fields.
* Pro Web customers should understand the additional security considerations of calling out to an external web service - opening ports/firewalls etc.

Security

Experian have recently updated to token authentication instead of username/password credentials. Customers will not be able to use existing username/passwords from previous versions of Address Validate SOAP when using Global Intuitive.

A token can be passed through as a Request Header:

Auth-Token = a1b234c5-a1bc-1234-a1bc-123a4567891bc

Or appended to the GET request URL:

GET /Search?query={address}&country={country ISO code}&Auth-Token=a1b234c5-a1bc-1234-a1bc-123a4567891bc

Supported countries

The map below illustrates the level of coverage for each country and territory. The coverage levels represent how accurate the addresses are for major parts of the country.

Delivery PointAddresses are accurate to delivery point level. e.g. a single delivery point within an apartment building, block of flats or high rise.Building/House NumberAddresses are accurate to building level e.g. a single house or retail unit. Delivery point information may need to be entered manually.StreetAddresses are accurate to street level. Delivery point information will need to be entered manually.LocalityAddresses will be returned for some localities (e.g. cities and towns). Street and delivery point information will need to be entered manually.

Troubleshooting

[Are Royal Mail postcode recodes supported by Global Intuitive?](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#postcoderecodes)

[Are Royal Mail counties supported by Global Intuitive?](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#counties)

[What are the differences between older address layouts and the way addresses are returned by Global Intuitive?](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#layouts)

[How are the search results ordered in Global Intuitive?](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#results)

[Why am I getting exceptions when I attempt to connect to the service?](https://www.edq.com/documentation/apis/address-validate/global-intuitive/#exceptions)

Release notes

View the [release notes](https://www.edq.com/documentation/apis/address-validate/global-intuitive/release-notes/) for details on the latest changes to Global Intuitive.

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