

Oracle Address, Email, and Phone Verification

**Using Oracle Address, Email, and
Phone Verification**

February 2025



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Get Help

Here's an introduction to some information sources that can help you use the application and this guide.

Get Support

You can get support at [My Oracle Support](#). For accessible support, visit [Oracle Accessibility Learning and Support](#).

Here are some more links to help you get started quickly:

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- [Create your Oracle account](#)
- [Work effectively with Support](#)
- [Create a technical service request](#)

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Use [Cloud Customer Connect](#) to get information from industry experts at Oracle and in the partner community.

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Thanks for helping us improve our user assistance!

1 Get Started with Address, Email, and Phone Verification

Get Started with Address, Email, and Phone Verification

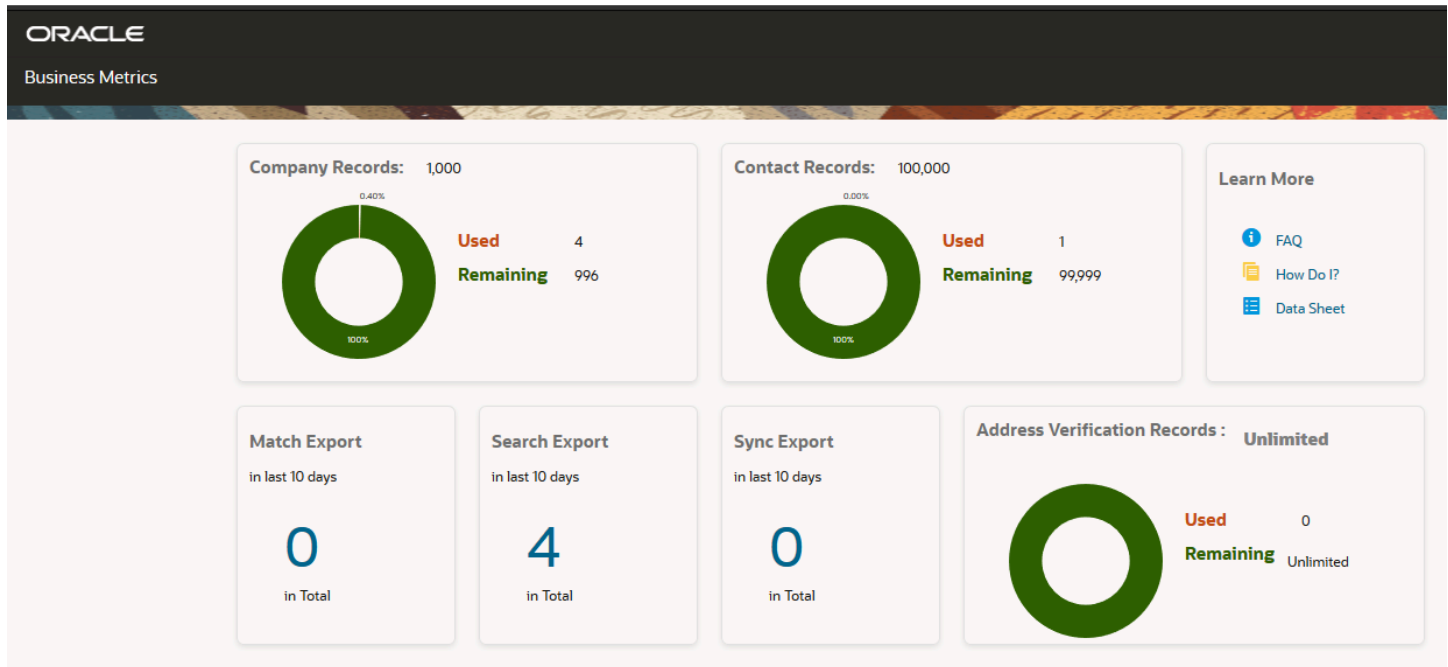
Oracle Address, Email, and Phone Verification lets you verify and standardize data in your applications. For example, you can verify the postal addresses, email addresses, and phone numbers of your prospects and customers to efficiently manage your communication at each stage of the sales or marketing process.

Access the REST API in the following format: `https://serviceName-identityDomain.data.us2.oraclecloud.com/av/api`

For example: `https://data1234-usoracle1234.data.us2.oraclecloud.com/av/api/v3/address/find`

Verification services can be used with Oracle Account and Contact Enrichment (also known as Data as a Service, or DaaS) or as a standalone service with other applications. For the list of supported countries, see [Loqate Data Coverage](#).

There is no user interface, but you can see your address record usage on the DaaS landing page. (This URL is listed on Oracle Cloud Console.) The **Address Verification Records** section shows the number of address records remaining in your subscription (or it shows "Unlimited" if you purchased unlimited records). If you haven't purchased a subscription for DaaS, then this landing page shows only the **Address Verification Records** and the **Learn More** sections.



How to Begin with Address, Email, and Phone Verification

Here's a summary of the key steps to get new Address, Email, and Phone Verification subscriptions provisioned in an Oracle Cloud Infrastructure (OCI) data center.

1. Order a subscription for Address, Email, and Phone Verification by contacting Oracle Sales. Your subscription will be made in the same data center region as your Oracle Cloud account.

For details about ordering subscriptions, see [Order Oracle Cloud Applications](#) in *Getting Started with Oracle Cloud Applications*.

2. a. Add subscription to your Oracle Cloud account.

You'll receive an email titled "Action Required: Welcome to New Oracle Cloud Service Subscription(s)." Follow the instructions in the email:

- If you have an Oracle Cloud account, then click the **Add to existing cloud account** button. We recommend using your existing Oracle Cloud account to manage all your Oracle services.
 - a. Specify your cloud Tenant name and click **Continue**
 - b. Specify your username and password and click **Sign In**.

The **Add Subscription** page is displayed.

 - c. Add the new subscription to your tenancy. This page indicates the subscription name, subscription ID, and subscription description (with product SKU).
- Note:** Adding a subscription to a tenancy can't be done.
- If you're a new customer, then click the **Create new cloud account** button. The New Cloud Account Information sign up form is displayed.
 - a. Specify your First name, Last name, and Email address. The email address is also the username for signing into the account. The person you specify here is the first administrator who can access the account and can create other users. This role also has full administrator permissions in your account.
 - b. Specify a password and confirm.

- c. Specify a Tenancy Name. This is also called your cloud account name. When choosing a tenancy name, note the following:
 - The tenancy name or cloud account name is used to identify your account. The name is also used to create the URLs to access your cloud services. For example, if you call your tenancy "abccorp", an application URL might look like:
https://abccorp-oracleservice.service.us.phoenix-1.ocs
 - The tenancy name must be unique, start with a lowercase letter and have no more than 25 lowercase letters or numbers. You can't use spaces or special characters.
- d. Select a Home region where your services will be hosted.

Note: Your home region is the geographic location where your account and identity resources will be created. You can't change this after signing up. If you are not sure which region to select as your home region, contact your sales representative before you create your account.

- e. Read the terms of use and click Create Tenancy.
- b. Create the Data Environment.

You'll receive a another email titled "Get Started Now with Oracle Cloud". Click the Sign In button in the email. The Create environment page is displayed.

- i. Specify the cloud account name, credentials that you provided while creating cloud account and click **Create**.
- ii. On the Create environment page, specify the admin email and click **Create**.

Note: Ensure that you don't select the Update option.

A page containing the environment information is displayed.

- iii. Click the environment name to view the environment details.
- iv. Copy the Service console URL from the Environment information tab and other links you need from the Additional links tab.

You or the administrator will receive an email with the subject: Action Required: Your new Data as a Service instance in Cloud Account is ready.

- a. In the email, click **Access Your New Service**.
- b. On the Oracle Cloud Console, click the **Data** application to see the Address, Email, and Phone Verification API URL.

- 3. Create accounts for your users and assign them appropriate roles. The following roles are created during provisioning.

- DATASERVICE_ADMINISTRATOR (administrator access)
- DATASERVICE_USER (user access)
- DATASERVICE_CLIENT_API_APPID (necessary for integrating with other applications)

To add users, see [Add Users to a Cloud Account with Identity Cloud Service](#) in *Getting Started with Oracle Cloud Applications*.

- 4. Create the OAuth client credentials as follows:

- a. In the Oracle Cloud Console home page, login to your cloud account.
- b. Click **Navigator > Account Management > Users**.
- c. On the User Management page, click the link on the message that the page is part of the new identity and access management experience.
- d. Click **Integrated applications** and click **Add application**.

- e. On the Add application popup, select **Confidential Application** and then click **Launch app catalog**.
- f. Type the name on the Add Confidential Application and click **Next**.
- g. On the Client configuration section, select **Configure this application as a client now** and select Resource Owner, Client credentials, and Refresh token options.
- h. Click **Next**.
- i. On the Web tier policy page, click **Finish**. You are now directed back to your application's Cloud Console.
- j. Scroll up and click the **Activate** button.
- k. Click the **Activate application** on the Activate application popup.

Note: For any integration or using Oracle Cloud service with Address, Email, and Phone Verification APIs, you require the client credentials. Use these steps:

- a. Scroll down to the General Information section and copy the Client ID.
- b. Click **Show secret** in the **Client secret** section.
- c. Click the **Copy** link in the Client secret popup and click **Close** to copy the password.

Note: To associate another Oracle Cloud service with Address, Email, and Phone Verification as well as Account and Contact Enrichment, both services must be part of the same subscription order. For instance, if you order Account Enrichment first, then add Address Verification later, then you must upgrade your Account Enrichment subscription to include Address Verification or vice versa. When associated with the same instance of another Oracle Cloud service, the Account and Contact Enrichment *and* Address, Email, and Phone Verification cannot exist in separate instances.

How to Update Your Subscription

You can expand or renew your subscription in the Oracle Cloud Console by contacting Oracle Sales. You'll get an activation email with the subject: Your service has been updated.

1. Sign in to *Oracle Cloud Console*.
2. In the Oracle Cloud Console home page, login to the cloud account which needs to be updated.
3. Select your application.
4. Click your environment.
5. In the environment details page, click **Edit Environment**.
6. In the edit popup, select the **Update** option and then click **Save Environment**. The updated environment details are displayed in the Work requests table.

Your subscription is now updated.

Integrate with Oracle Sales or Procurement

You can enable Oracle Sales to integrate with Address, Email, and Phone Verification for real-time verification and autocomplete address functionality on data entry. You can also enable Oracle Procurement to integrate with Address Verification for autocomplete address functionality.

Note: You must have an active Sales or Procurement subscription, and then add a subscription for Oracle Address, Email, and Phone Verification.

1. In CX Sales or Procurement, configure the **Manage Integration with Oracle Verification Services** task.

In the Setup and Maintenance work area, navigate to the following:

- Offering: Sales
- Functional Area: Integrations
- Task: Manage Integration with Oracle Verification Services

Note: You must have the DATASERVICE_CLIENT_API_APPID role. For details, see *How to Begin with Address, Email, and Phone Verification*.

2. Select **OAuth Authentication**.

To add a confidential application, see *Add a Confidential Application*.

Note: If you're using Basic Authentication, exclude the question mark special character (?) in the password.

3. In the **URL** field, remove `/data/ui` from the end of the instance address listed in your Welcome email and in Cloud Console.

For example, `https://mydataservice-myidentitydomain.data.us2.oraclecloud.com`.

About Address Verification

Oracle Address Verification can correct misspelled city or street names, complete postal codes, and standardize abbreviations like Pkwy. The service takes your address data and returns matches—one match or multiple matches—and you can select which version you want to use as the standard.

Address verification can be used in real time to verify mailing addresses or to provide type-ahead smart data when entering addresses. It can also be used in batch mode to verify large numbers of records. The following videos provide a summary of address verification functionality.

- Verify Addresses in Real Time: Click the **Verify Address** button when creating or editing an account to make sure you have complete and standardized addresses.



- Verify Addresses using Type-Ahead Smart Data: Enable address suggestions to automatically appear as you start entering an address: the more you enter, the more the results narrow down to the closest match.



- Run Batch Address Cleansing: You can verify all addresses in your application that have been updated or imported since your last batch cleansing job. With Simulated mode, you can review each verified address before accepting and importing it into Customer Data Management.



Use Address Verification REST API

Address verification lets you search and verify global addresses in your applications.

Watch this video for an overview of the REST API features.



Topics

- [Search Addresses](#)
- [Verify Addresses](#)

Search Addresses

Address Verification contains functionality for type-ahead address search and address completion. We provide this functionality in three endpoints, available in version 2 (v2) and version 3 (v3). New users should use v3.

You can use the Search API in either Indirect Mode or Direct Mode.

Indirect Mode

REST endpoints:

```
/api/v3/address/find
```

```
/api/v3/address/retrieve
```

With indirect mode, the client doesn't call the third-party provider directly – the client only interacts with Oracle Address Verification Service. Oracle then forwards the `find` call to the third-party provider.

First, `find` is called to narrow down the search, and then `retrieve` is called to obtain the complete address record. Because the performance for `find` is slower in this mode, we recommend using Direct Mode whenever possible.

Direct Mode

REST endpoints:

```
/api/v3/address/preparefind
```

```
/api/v3/address/retrieve
```

Here the client first calls `preparefind` at application page initialization time. As a response to `preparefind`, the client receives information and credentials to perform `find` calls directly on the third-party application. `Retrieve` is then again performed against the verification endpoint, not the third-party application (see use cases in subsequent sections).

Simple Search Use Case

Suppose the first `find` request is issued as soon as you type the first three letters of an intended US address as "123". This is the result request and response:

Note: Examples show Indirect Mode. Functionality is identical for Direct Mode, but with an initial `preparefind`.

Request

<http://adc00qrw.oracle.com:7767/av/api/v3/address/find?Text=123>

Response

```
[
  {
    "Id": "US|US|ENG|94107-CA-SAN_FRANCISCO--ST-TOWNSEND--123",
    "Type": "BuildingNumber",
    "Text": "123 Townsend St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94107 - 320 Addresses"
  },
  {
    "Id": "US|US|ENG|94105-CA-SAN_FRANCISCO--ST-MISSION--123",
    "Type": "BuildingNumber",
    "Text": "123 Mission St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94105 - 48 Addresses"
  },
  {
    "Id": "US|US|A|Z222445177|123",
    "Type": "Address",
    "Text": "123 2nd St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94105"
  },
  {
    "Id": "US|US|A|Z222445178|1",
    "Type": "Address",
    "Text": "123 2nd St Ste 1",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94105"
  },
  {
    "Id": "US|US|A|Z223933823|123",
    "Type": "Address",
    "Text": "123 Mission St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94105"
  },
  {
    "Id": "US|US|ENG|94103-CA-SAN_FRANCISCO--ST-GUERRERO--123",
    "Type": "BuildingNumber",
    "Text": "123 Guerrero St Apt",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94103 - 3 Addresses"
  },
  {
    "Id": "US|US|A|Z222437371|123",
    "Type": "Address",
    "Text": "123 Guerrero St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94103"
  },
  {
    "Id": "US|US|A|Z222457206|123",
    "Type": "Address",
    "Text": "123 Waverly Pl",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94108"
  },
  {
    "Id": "US|US|A|Z222454357|123",
    "Type": "Address",
    "Text": "123 Joice St",
  }
]
```

```
"Highlight": "0-3",
"Description": "San Francisco CA 94108"
},
{
  "Id": "US|US|ENG|94108-CA-SAN_FRANCISCO--ST-JOICE--123",
  "Type": "BuildingNumber",
  "Text": "123 Joice St Apt",
  "Highlight": "0-3",
  "Description": "San Francisco CA 94108 - 4 Addresses"
}
]
```

Mailing addresses can be found in the response of all JSON objects that have the `Type` field set to `Address`. In this simple use case, the user interface could just suppress all other types (such as `BuildingNumber`, `Street`, and so on) and display only address objects.

To find the address “123 Guerrero St”, you click it. This causes the client application to issue a request to the `/address/retrieve` endpoint, passing an ID parameter with the value `us|us|a|z222437371|123`, which then retrieves the full address record.

Otherwise, you must continue typing the address, while the UI continually issues equivalent `find` requests until the address you want is found.

Retrieve Addresses

After an ID is obtained, the full and componentized information for this address can be obtained by calling the `/address/retrieve` endpoint with that ID as a parameter.

Doing so for the simple `find` use case produces the following results:

Request

```
http://adc00qrw.oracle.com:7767/av/api/v3/address/retrieve?Id=US|US|A|Z222437371|123
```

Response

```
[
  {
    "Id": "US|US|A|Z222437371|123",
    "Premise": "123",
    "Thoroughfare": "Guerrero St",
    "Locality": "San Francisco",
    "DeliveryAddress1": "123 Guerrero St",
    "SubAdministrativeArea": "San Francisco",
    "AdministrativeArea": "CA",
    "AdministrativeAreaName": "California",
    "PostalCode": "94103-1072",
    "CountryName": "United States",
    "ISO3166-2": "US",
    "ISO3166-3": "USA",
    "ISO3166-N": "840",
    "Address": "123 Guerrero St|SAN FRANCISCO CA 94103-1072",
    "DeliveryAddress": "123 Guerrero St",
    "Address1": "123 Guerrero St",
    "Address2": "SAN FRANCISCO CA 94103-1072",
    "PostalCodePrimary": "94103",
    "PostalCodeSecondary": "1072"
  }
]
```

Advanced Search Use Case

Suppose you want to search for the address “941 Dolores St, unit #3” in the USA, and you start typing the characters “941”. The corresponding REST transaction initiated by the UI is shown in Request 1 and Response 1.

Note: Examples show Indirect Mode. Functionality is identical for Direct Mode, but with an initial `preparefind`.

In this case, the UI takes all types of records into account, not only `Type=Address`. Looking at the results from Response 1, you might not continue typing additional characters, but instead select the result “Dolores St Apt”, where the `Type` is `BuildingNumber`. The UI should understand that this is not a final selection of an address, but rather a drilldown into one of the results, which contains four more addresses. This is accomplished by using the result’s ID and passing it as a `Container` parameter into a new request, as shown in Request 2. In Response 2, you see that the previous result is not visible anymore, but all four apartments are shown.

After seeing the #3 unit, you get the record by calling the `/address/retrieve` endpoint using the ID value of `US|US|A|Z222467771|3`.

Request 1

```
http://adc00qrw.oracle.com:7767/av/api/v3/address/find?Text=941
```

Response 1

```
[
  {
    "Id": "US|US|A|Z222467773|941",
    "Type": "Address",
    "Text": "941 Dolores St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94110"
  },
  {
    "Id": "US|US|ENG|94110-CA-SAN_FRANCISCO--ST-DOLORES--941",
    "Type": "BuildingNumber",
    "Text": "941 Dolores St Apt",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94110 - 4 Addresses"
  },
  {
    "Id": "US|US|ENG|94117-CA-SAN_FRANCISCO--ST-PAGE--941",
    "Type": "BuildingNumber",
    "Text": "941 Page St Apt",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94117 - 5 Addresses"
  },
  {
    "Id": "US|US|A|Z222490758|941",
    "Type": "Address",
    "Text": "941 Page St",
    "Highlight": "0-3",
    "Description": "San Francisco CA 94117"
  },
  {
    "Id": "US|US|A|Z222412877|941",
    "Type": "Address",
    "Text": "941 Ridgeview Ct Unit",
    "Highlight": "0-3",
    "Description": "South San Francisco CA 94080"
  },
  {
    "Id": "US|US|A|Z222412876|941",
    "Type": "Address",
    "Text": "941 Ridgeview Ct",
    "Highlight": "0-3",
    "Description": "South San Francisco CA 94080"
  },
  {
    "Id": "US|US|A|Z213529633|941",
    "Type": "Address",
    "Text": "941 Shorepoint Ct",
    "Highlight": "0-3",
    "Description": "Alameda CA 94501"
  }
]
```



```
    },
    {
      "Id": "US|US|ENG|94501-CA-ALAMEDA--CT-SHOREPOINT--941",
      "Type": "BuildingNumber",
      "Text": "941 Shorepoint Ct Apt",
      "Highlight": "0-3",
      "Description": "Alameda CA 94501 - 146 Addresses"
    },
    {
      "Id": "US|US|ENG|94608-CA-EMERYVILLE--ST-37TH--941",
      "Type": "BuildingNumber",
      "Text": "941 37th St Apt",
      "Highlight": "0-3",
      "Description": "Emeryville CA 94608 - 5 Addresses"
    },
    {
      "Id": "US|US|A|Z224475658|941",
      "Type": "Address",
      "Text": "941 Aileen St",
      "Highlight": "0-3",
      "Description": "Emeryville CA 94608"
    }
  ]
}
```

Request 2

```
http://adc00qrw.oracle.com:7767/av/api/v3/address/find?Text=941&Container=US|US|ENG|94110-CA-SAN_FRANCISCO--ST-DOLORES--941
```

Response 2

```
[
  {
    "Id": "US|US|A|Z222467771|1",
    "Type": "Address",
    "Text": "941 Dolores St Apt 1",
    "Highlight": "",
    "Description": "San Francisco CA 94110"
  },
  {
    "Id": "US|US|A|Z222467771|2",
    "Type": "Address",
    "Text": "941 Dolores St Apt 2",
    "Highlight": "",
    "Description": "San Francisco CA 94110"
  },
  {
    "Id": "US|US|A|Z222467771|3",
    "Type": "Address",
    "Text": "941 Dolores St Apt 3",
    "Highlight": "",
    "Description": "San Francisco CA 94110"
  },
  {
    "Id": "US|US|A|Z222467771|4",
    "Type": "Address",
    "Text": "941 Dolores St Apt 4",
    "Highlight": "",
    "Description": "San Francisco CA 94110"
  },
  {
    "Id": "US|US|A|Z222467772|A",
    "Type": "Address",
    "Text": "941 Dolores St Apt A",
    "Highlight": "",
    "Description": "San Francisco CA 94110"
  }
]
```

1

For detailed information, see *REST API for Oracle Address, Email, and Phone Verification*.

Verify Addresses

Use Address Verify to do the following:

- Correct and enhance an address. For example, you can correct misspelled city or street names; add missing elements, like full postal code or state; and get geographic location, such as latitude, longitude.
- Get accurate representation of address from postal files. For example, change “street” to “St” or “parkw” to “Pkw”.
- Transliterate an address using `outputscript (v2)` or `outputScript (v3)`. The following values are supported:
 - **Native:** This returns output in the script most commonly used in that country (see below).
 - **Latn:** This returns output in the Latin alphabet (English).
 - no value (default): This tries to match the address output script to whatever is provided as the address input script.

For example, input Japan addresses that are in Latin script and get the verified output in Hani script. This is supported for addresses for certain countries.

Here are the native scripts (in ISO and full name) with the country where this is known to be supported:

- Latn – Latin (English transliteration wherever possible)
- Cyrl – Cyrillic (Russia)
- Grek – Greek (Greece)
- Hebr – Hebrew (Israel)
- Hani – Kanji (Japan)
- Hans – Simplified Chinese (China)
- Arab – Arabic (United Arab Emirates)
- Thai – Thai (Thailand)
- Hang – Hangul (South Korea)
- Native – Output in the native script wherever possible

Transliteration is bi-directional and generally happens from Native to Latn and Latn to Native using data for countries stated above next to the scripts. However, Latn to Hans is not available for any country other than China.

Loqate does not support processing nor transliteration between Latin and native scripts outside of these stated countries. For example, if Greek (Grek) is used on a Portugal address, Loqate cannot parse or validate the record, nor transliterate it into Latin script. Similarly, a Portugal address entered in Latin cannot transliterate to any other script.

For information on Loqate's transliteration support, see <https://support.loqate.com/character-scripts/>.

Note: Do not set `minimumverificationmatchscore` to 100 unless you know you have a valid address and you just want to standardize it. In general, use a country's default `minimumverificationlevel` (for example, US=4). The exception is if you need to verify a zip code.

The following example shows the steps to verify an address. The process is the same for a single address verification request and for multiple addresses.

1. First, set up authorization. The API uses a standard OAuth 2.0 flow to authorize and authenticate API clients and users. If you're using the API, you should already have an OAuth client ID and client secret. You

[illegible]

Then enter the credentials (key value) you received.

NewImportRunner

My Workspace

Invite

Sign In

←GET h...GET h...GET h...POST s...GET u...GET U...GET 1...POST h...POST h...GET h...POST A...POST h...POST O...POST O...

No Environment

Oauth Sample

ExamplesBUILD

POSThttps://-test.com/av/api/v3/oauth2/token

SendSave

ParamsAuthorizationHeaders (11)BodyPre-request ScriptTestsSettings

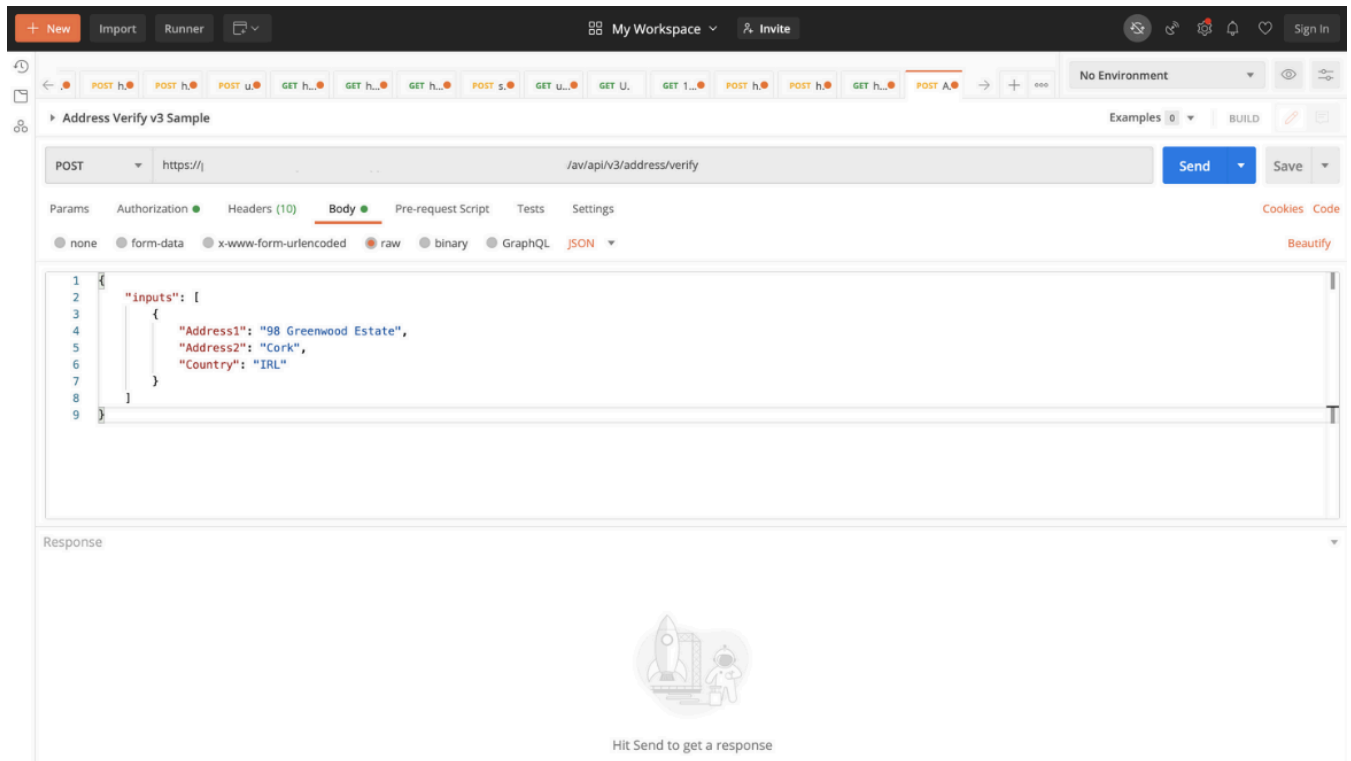
CookiesCode

Headers10 hidden

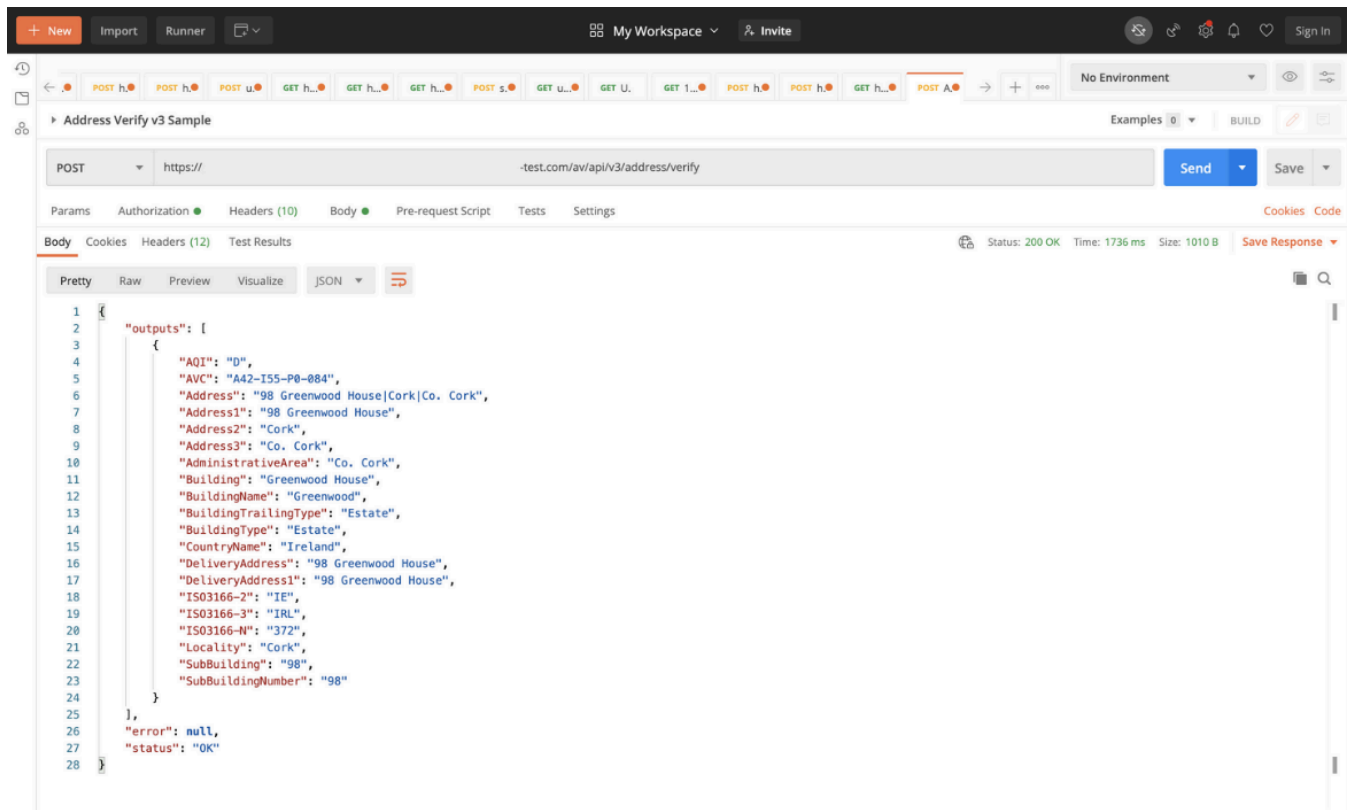
KEY	VALUE	DESCRIPTION	Bulk EditPresets
<input checked="" type="checkbox"/> Content-Type	application/json		
Key	Value	Description	

Response

2. Enter the Address Verify URL as `http://host:port/av/api/v3/address/verify`, and then enter the address you want verified as input in the body. This example provides only Address1, Address2, and Country.



3. Click **Send**, and the complete verified, standardized address is returned as the response.



Use Email Verification REST API

Email verification lets you verify global email addresses in your applications. You can do individual or batch verifications. This takes as input the email address to verify. The response signifies the following:

- Valid: The address was successfully verified.
- Partially-Valid: The email domain is valid, but the email account could not be verified.
- Invalid: The address was not successfully verified.
- The request timed out before it could be completed.

Invalid and partially-valid verifications show the date of the most recent verification. To show the valid status on valid emails right away, change the verification threshold date. For example, if you're working in Oracle CX Sales and the threshold is set to 180, then 180 days after the last valid verification was run, the UI renders with the email address the **Verification Status**, **Verification Date**, a **Re-verify** icon, and an **Overwrite** icon on the Contact and Account Profile pages. To show the valid status with these icons right away, change the verification threshold to 0.

For detailed information, see Email Verify in *REST API for Oracle Address, Email, and Phone Verification*.

Use Phone Verification REST API

Phone verification lets you verify global phone numbers in your applications. You can do individual or batch verifications.

This takes as input the phone number to verify in international format (for example, +447528471411) or in national format with a country code (for example, 07528471411 and GB as the country parameter). The response signifies the following:

- Valid: The phone number was successfully verified.
- Invalid: The phone number was not successfully verified.
- The request timed out before it could be completed.

Invalid and partially-valid verifications show the date of the most recent verification. To show the valid status on valid phone numbers right away, change the verification threshold date. For example, if you're working in Oracle CX Sales and the threshold is set to 180, then 180 days after the last valid verification was run, the UI renders with the phone number the **Verification Status**, **Verification Date**, a **Re-verify** icon, and an **Overwrite** icon on the Contact and Account Profile pages. To show the valid status with these icons right away, change the verification threshold to 0.

For detailed information, see Phone Verify in *REST API for Oracle Address, Email, and Phone Verification*.