

Integration - Import API - Implementation Steps

Clarifruit exposes an Import API to enable its customers to import inspections to Clarifruit using JSON API requests.

These are the prerequisites to using the Import API:

- Locate your Clarifruit Company Identifier (ID)
- Perform Field ID Mapping
- Create an API Token for Authentication

Once you have completed these prerequisite steps you can use the Import API:

- Import Inspections with the Import API

Prerequisite Steps

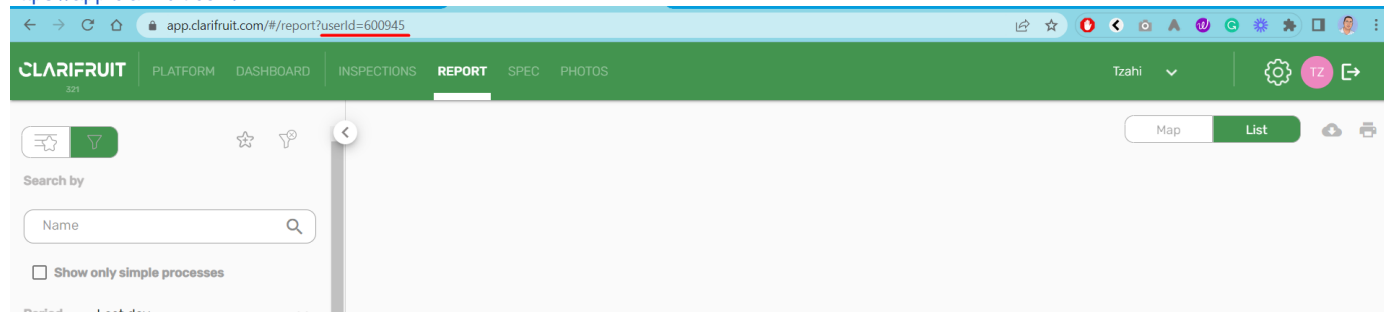
Locate your Clarifruit Company Identifier (ID)

Your Company ID is listed inside the URL of the Clarifruit Web app.

For example - this is the company ID of the company in this example: 600945

Please login to your Clarifruit account from your browser, and locate your Company ID. Note the ID for use in API requests.

<https://app.clarifruit.com/>



Perform Field ID Mapping

Before you can use the Import API, you will need to complete a Field ID Mapping. All data within the JSON submitted in the Import API will include your identifiers (IDs) for the data being imported. We refer to your IDs as 'external' - external meaning external to Clarifruit, as opposed to the Clarifruit internal IDs for the same data.

You can easily export a comma-separated values (CSV) mappings file, which must be completed prior to using the Import API.

For example, the CSV mappings file might contain the following information, requiring you to fill out the last column:

Field	Field Type	Clarifruit ID	Your ID
Apple	Produce Family	212	apple
Common Green Apple	Produce Variety	222	CGA
High Season Apple Standard	Custom Standard	8405	123
Intake Inspection Process	Custom Inspection Process	5456	intake
Grower	Custom Property used in Inspection Process	Xnbz	grower

Adding your ID to the mapping file will allow us to import your data by translating your ID for each field imported into the IDs Clarifruit uses internally for those fields.

For more information & instructions about field mappings - find our field mappings document.

- Map all relevant types of information.
 - Produce & Varieties - **Mandatory**
 - Processes - **Mandatory**
 - Standards - **Optional**
 - Properties - **Optional**
 - Defects & Attributes are also optional and also not likely to be imported, as this information will be inspected with the Clarifruit app.

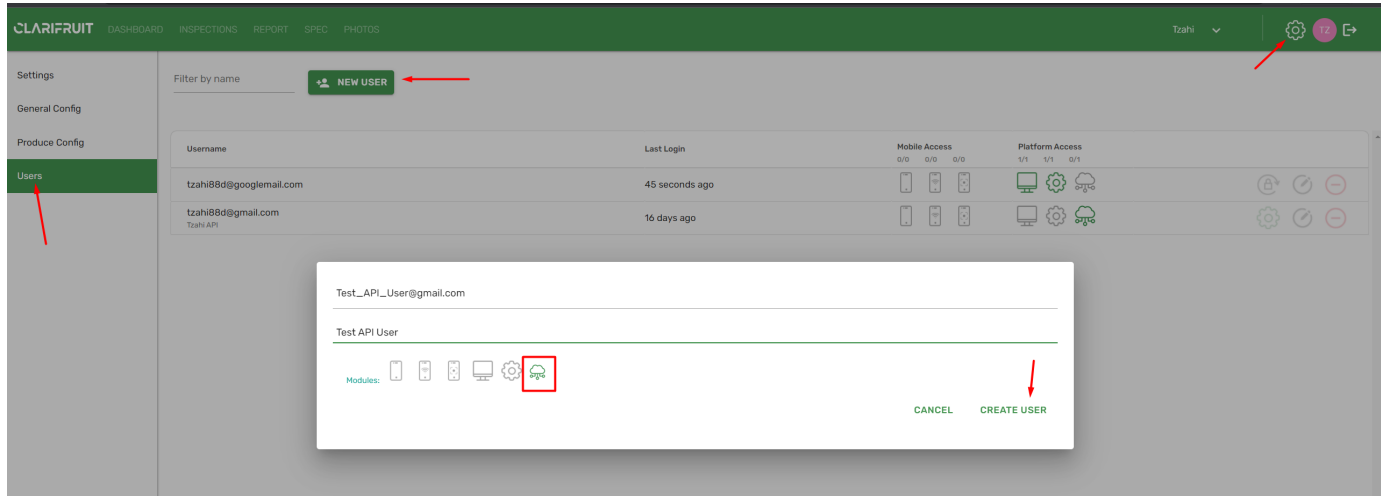
- Send back to Clarifruit the complete mappings file - we will save all your mappings.

Create an API Token for Authentication

In order to make the API request - you need to get an X-API-Token from Clarifruit.

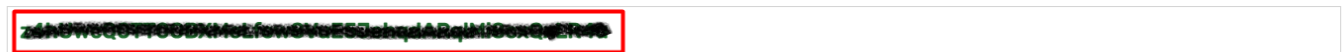
Create an API user in Clarifruit, and save the token by following these steps:

1. Click the Settings icon in the top right of the web app
2. Click Users to open the user settings
3. Click New User
 - a. Provide a valid email address and name for the user
 - b. Choose the API icon
4. Click Create User



After a few seconds, a pop-up will appear with your API token. Please save it somewhere safe - because there is no way to see this token again, if you loose it - you can deactivate the token & create a new one.

Refresh Token generated for test_api_user@gmail.com. Please copy it now.
You will not be able to see it again.



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Using the API

Import Inspections with the Import API

Here is an example cURL command making use of the Company ID and API Token parameters you have saved, and demonstrating the field mapping values being used:

```

curl --request POST \
  --url https://public-services.clarifruit.com/api/import?
companyId=PUT_YOUR_COMPANY_ID_HERE \
  --header 'Content-Type: application/json' \
  --header "X-API-Key: PUT_YOUR_TOKEN_HERE" \
  --data '[{
  "name": "My Sweet Apples",
    "externalProduceId": "apple",
    "externalVarietyId": "commonrapple",
    "externalProcessId": "p_apple_intake",
    "externalStandardId": "stand_apple_my",
    "images": [
      {
        "url": "https://images.clarifruit.com/829388/2055/2023/01/11
/63be7416a321062cccd191c1-01789.jpg"
      },
      {
        "url": "https://images.clarifruit.com/829388/2055/2023/01/11
/63be8af6d20dea78451c143c-92971.jpg"
      }
    ],
    "properties": [
      {
        "externalId": "coo",
        "value": "France"
      },
      {
        "externalId": "arrivaldate",
        "value": "2022-11-19T10:15:30"
      },
      {
        "externalId": "customer",
        "value": "My Customer Name"
      },
      {
        "externalId": "ggnumber",
        "value": "98272678212"
      },
      {
        "externalId": "grower",
        "value": "Grower Name"
      }
    ]
  }]'

```

The import API also allows importing multiple inspections in one request:

```

curl --request POST \
  --url 'https://public-services.clarifruit.com/api/import?
companyId=PUT_YOUR_COMPANY_ID_HERE' \
  --header 'Content-Type: application/json' \
  --header 'X-API-Key: PUT_YOUR_TOKEN_HERE' \
  --data '
[
  { #inspection number 1
    "name": "Z012",
    "externalVarietyId": "Grapes_Vessel_Variety",
    "externalProcessId": "GRAPES_VESSEL_PROCESS",
    "properties":
    [
      { "externalId": "vessel_truck", "value": "TRUCK Z112"},
      { "externalId": "pool_lot_id", "value": "Z112"},
      { "externalId": "exporter", "value": "Oppenheimer"},
      { "externalId": "origin_country", "value": "PERU"}
    ]
  },
  { #inspection number 2
    "name": "Z112",
    "externalVarietyId": "IVO",
    "externalProcessId": "GRAPES_LOT_PROCESS",
    "properties":
    [
      { "externalId": "vessel_truck", "value": "TRUCK Z112"},
      { "externalId": "pool_lot_id", "value": "Z112"},
      { "externalId": "variety", "value": "IVO"},
      { "externalId": "grower", "value": "99999"},
      { "externalId": "package", "value": "8SH"},
      { "externalId": "label", "value": "NON"},
      { "externalId": "size", "value": "XX210"},
      { "externalId": "hatch_container", "value": "X1"},
      { "externalId": "cases_pallet", "value": 1944.0},
      { "externalId": "packing_date", "value": 1680510676000},
      { "externalId": "product_name", "value":
"ivo_99999_8sh_non_xx_xx210"}
    ]
  }
]'

```

Or in Python:

```

import requests

url = "https://public-services.clarifruit.com/api/import"

```

```

querystring = {"companyId":"PUT_YOUR_COMPANY_ID_HERE"}

payload = [
  {
    "name": "My Sweet Apples",
    "externalProduceId": "apple",
    "externalVarietyId": "commonrapple",
    "externalProcessId": "p_apple_intake",
    "externalStandardId": "stand_apple_my",
    "images": [{"url": "https://images.clarifruit.com/829388/2055
/2023/01/11/63be7416a321062cccd191c1-01789.jpg"}, {"url":
"https://images.clarifruit.com/829388/2055/2023/01/11
/63be8af6d20dea78451c143c-92971.jpg"}],
    "properties": [
      {
        "externalId": "coo",
        "value": "France"
      },
      {
        "externalId": "arrivaldate",
        "value": "2022-11-19T10:15:30"
      },
      {
        "externalId": "customer",
        "value": "My Customer Name"
      },
      {
        "externalId": "ggnumber",
        "value": "98272678212"
      },
      {
        "externalId": "grower",
        "value": "Grower Name"
      }
    ]
  }
]

headers = {
  "Content-Type": "application/json",
  "X-API-Key": "PUT_YOUR_TOKEN_HERE"
}

response = requests.request("POST", url, json=payload, headers=headers,
params=querystring)

print(response.text)

```

The JSON body of the POST request includes the following fields:

- name: the name of the inspection (string)

- *Fields with values from CSV Field Mappings*
 - externalProduceId: ID of the produce being inspected (string)
 - externalVarietyId: ID of the produce variety being inspected (string)
 - externalProcessId: ID of the process being used to perform the inspection (string)
 - externalStandardId: ID of the standard by which the inspection is graded (string)
- images: an array of image links, including the url of the image
 - e.g. {"url": "https://some.public.url.com/image.jpg"}
 - * The image URL should be accessible, otherwise, Clarifruit will not be able to download & use the images.
 - ** You can have as many images as you need by adding more rows to the images array.
- properties: an array of property ID/value objects whose IDs are defined in the CSV Field Mappings
 - e.g.
 - {"externalId": "id_from_csv_field_mapping", "value": "some value"}
or for numeric properties
 - {"externalId": "id_from_csv_field_mapping", "value": 123}

Properties

Properties are defined in the Web App settings, and added to your Inspection Process in the Spec section of the Web App.

Property values should be passed as either strings or numbers based on the property type:

Property Type	Expected Value format	Example
Text	String	"Abc 123"
Barcode	String	"Abc 123"
List	String	"Abc 123"
Numeric	Integer / decimal number	123 10.5
Date	ISO 8601 date time string (UTC)	"2022-12-08T07:22:02.369Z"

In the following example, you can see the type for each property, and accordingly, you can understand the value we would expect to get.

The screenshot shows the Clarifruit web application interface. The top navigation bar includes 'CLARIFRUIT', 'PLATFORM', 'DASHBOARD', 'INSPECTIONS', 'REPORT', 'SPEC', and 'PHOTOS'. The user is logged in as 'Clarifruit Sales Demo'. The left sidebar contains 'Settings', 'General Config', 'Defects', 'Properties', 'Checklist', 'Notifications', 'Produce Config', 'Users', and 'Admin'. The 'Properties' section is active, showing a table of properties. A red box highlights the 'Type' column, and red arrows point to the 'Properties' menu item and the 'General Config' menu item.

Type	Property Name	Value
Barcode	barcode	
Barcode	Codigo de barra	code
List	Country of origin	coo
Text	Customer	customer
Date	Fecha Recepción	recepcion
Numeric	kg totales	kgtotal

```
{
  "externalId": "code",
  "value": "Abc 123"
},
{
  "externalId": "coo",
  "value": "France"
},
{
  "externalId": "customer",
  "value": "Supermarket"
},
{
  "externalId": "recepccion",
  "value": "2022-11-19T10:15:30"
},
{
  "externalId": "kgtotal",
  "value": 10.5
}
```