Product

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Product

Tags: API

Versions

Versions this documentation is relevant for:

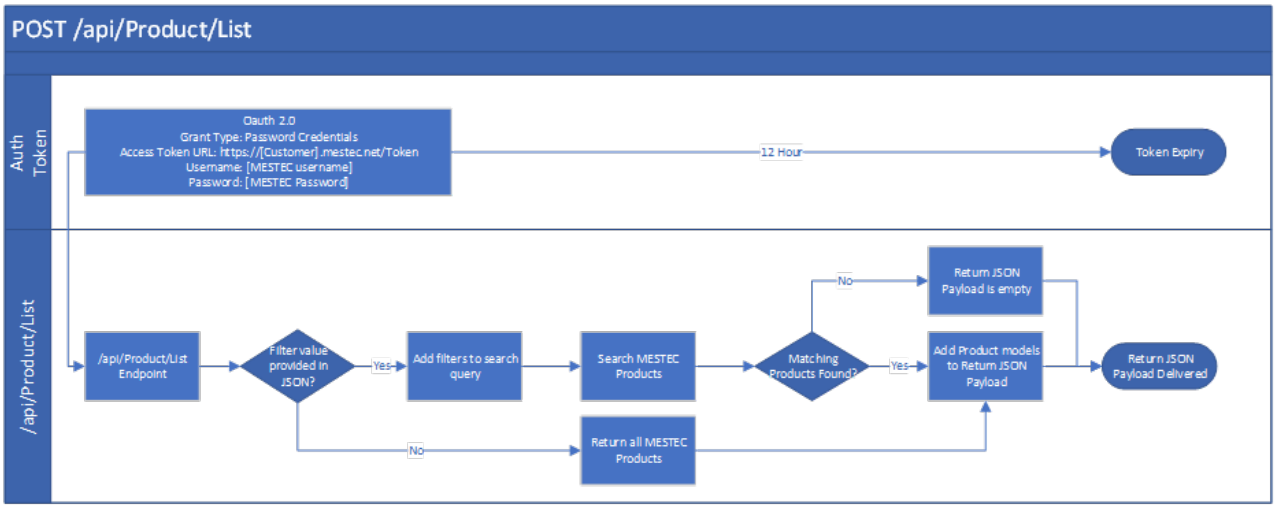
- 8.7.0+

List

The Product– List API call reads existing Product from Eyelit MES-M. The data can be filtered based on the parameters passed in the body/payload of the JSON packet giving the flexibility to search for one or multiple Product Groups. Using the Product– List API call has no impact on the data within the given Eyelit MES-M application, it is read-only.

Figure 1 shows the logic used within the Product– List API call.

Figure 1 - Logic within Product/List API Call



Prerequisites

There is no data required in Eyelit MES-M to act as a pre-requisite to make the API call to list Products. If parameters are passed in through the body that return no valid results, an empty payload will be returned.

Request

Table 1 shows the method and endpoint required to make the API call to list Product Groups.

Table 1 - Outbound Message Detail for Product - List

Method	URL Structure	Endpoint

POST	https://[environment].mestec.net	/api/Product/List

The body of the payload should follow the format below.

```
{
  "id": 0,
  "name": "string",
  "suid": "string",
  "description": "string"
}
```

See Table 2 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 2 - Parameter Information for Product - List 3

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	product.id	NUMBER	No	N/A	Exact
Name	product.name	VARCHAR2(250 BYTE)	No	No	Exact
SUID	product.suid	VARCHAR2(250 BYTE)	No	No	Exact

Note: For any fields where the match type is 'Like', a percent symbol should be used as a wildcard character to indicate a number of characters within the given string.

Sample Request

See below for sample use cases with examples of the JSON payload format required.

To list Product where the name is 'Controlled':

```
{
  "name": "Controlled"
}
```

Response

When using the Product – List API call, if any data has been found in Eyelit MES-M that meets the parameter values passed in the original payload, a JSON payload will be returned containing data in the following structure:

```
[
  {
    "id": 0,
    "productType": "string",
    "suid": "string",
    "name": "string",
    "description": "string",
    "version": "string",
    "defaultOwnership": "string",
    "defaultCostPerUnit": 0,
    "defaultCurrency": "string",
    "baseUnit": "string",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "string",
    "defaultBatchSize": 0,
    "minScheduleBatchSize": 0,
    "scheduleBatchIncrement": 0,
    "maxScheduleBatchSize": 0,
    "peggingExpiryDays": 0,
    "shelfLifeDays": 0,
    "inventoryDecimalPlaces": 0,
    "location": "string",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties": [
      {
        "name": "string",
        "value": "string"
      }
    ]
  }
]
```


Sample Response

See below for sample use cases with examples of the JSON payload format returned.

No results were found that matched given parameters:


```
[

]
```


Product found that matched given parameters:

```
[
  {
    "id": 0,
    "productType": "Product Type A",
    "suid": "Product123",
    "name": "Product 123",
    "description": "This is a product",
    "version": "V1",
    "defaultOwnership": "Internal Owned",
    "defaultCostPerUnit": 1.50,
    "defaultCurrency": "GBP",
    "baseUnit": "Each",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "Serial Range 1",
    "defaultBatchSize": 100,
    "minScheduleBatchSize": 100,
    "scheduleBatchIncrement": 25,
    "maxScheduleBatchSize": 500,
    "peggingExpiryDays": 7,
    "shelfLifeDays": 7,
    "inventoryDecimalPlaces": 0,
    "location": "Loc01",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties": [
      {
        "name": "Property 1",
        "value": "ABC123"
      }
    ]
  }
]
```


Upsert

The Product– Upsert API call checks if a Product with the given ID already exists. If it does, appropriate fields are updated in the matching product in Eyelit MES-M. If the ID value is omitted, a new Product will be created.

Figure 2 shows the logic used within the Product– Upsert API call. Figure 15 and Figure 16 show the logic internal to the Create and Update Product sub process.

Figure 2 - Logic within Product/Upsert API Call

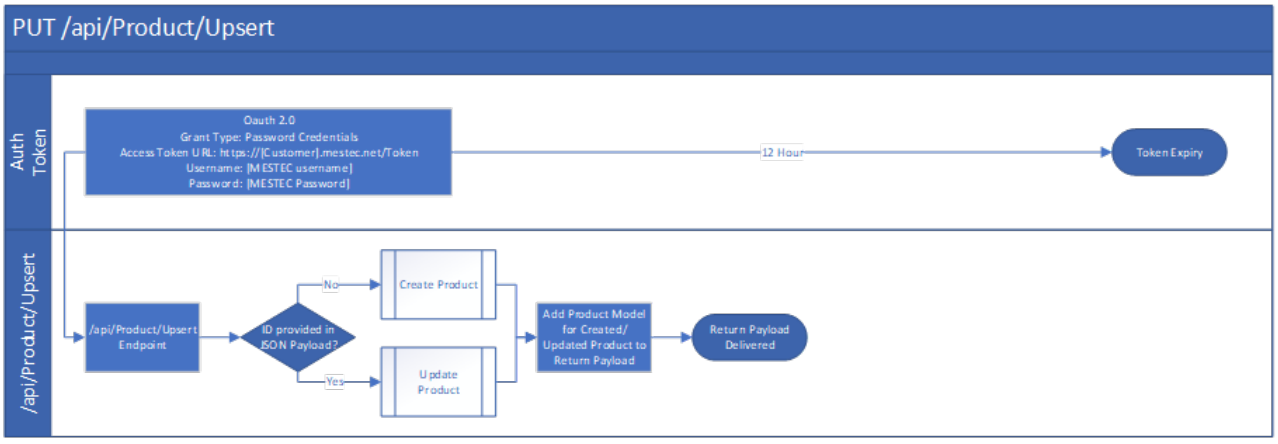


Figure 3 - Logic within Product/Upsert API Call Internal Transaction - Create Product

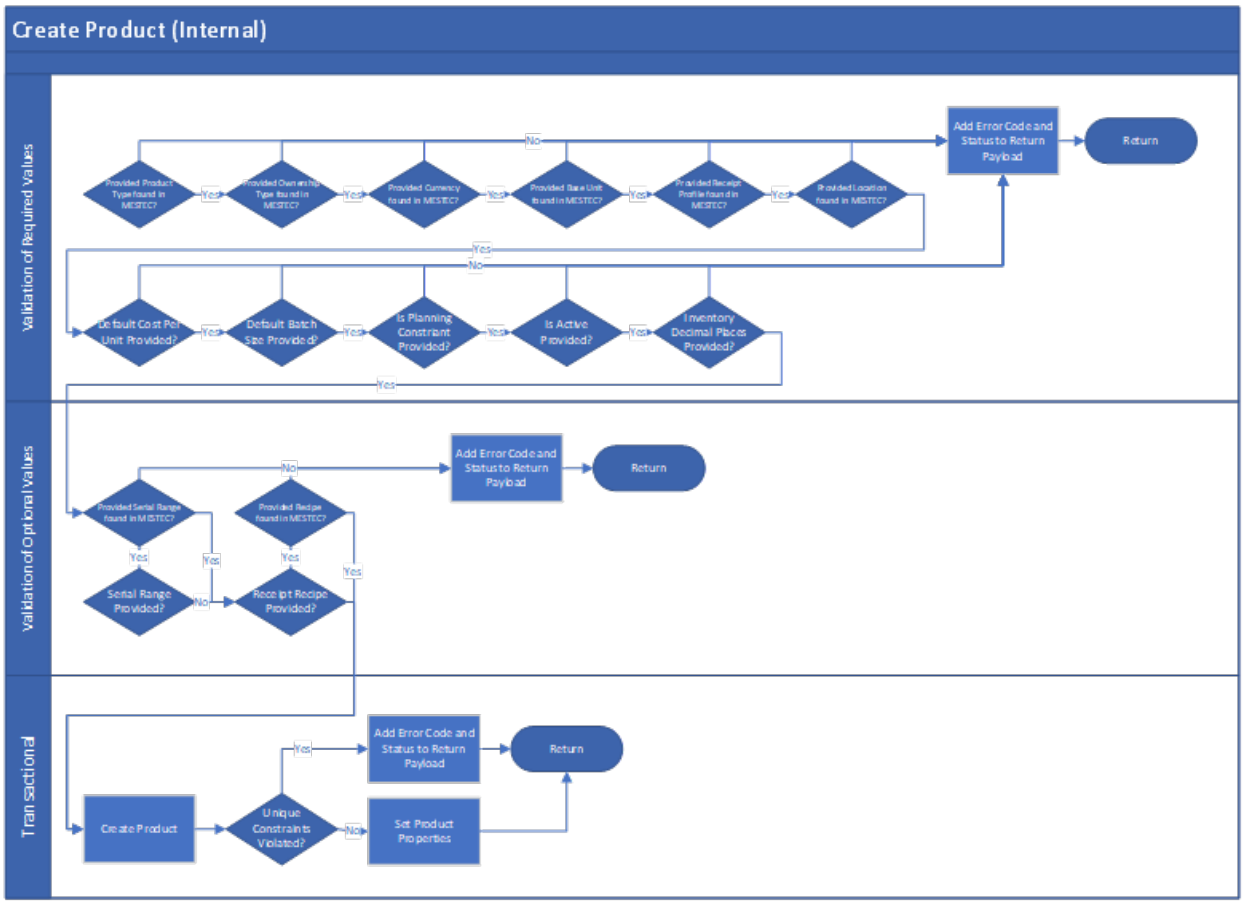
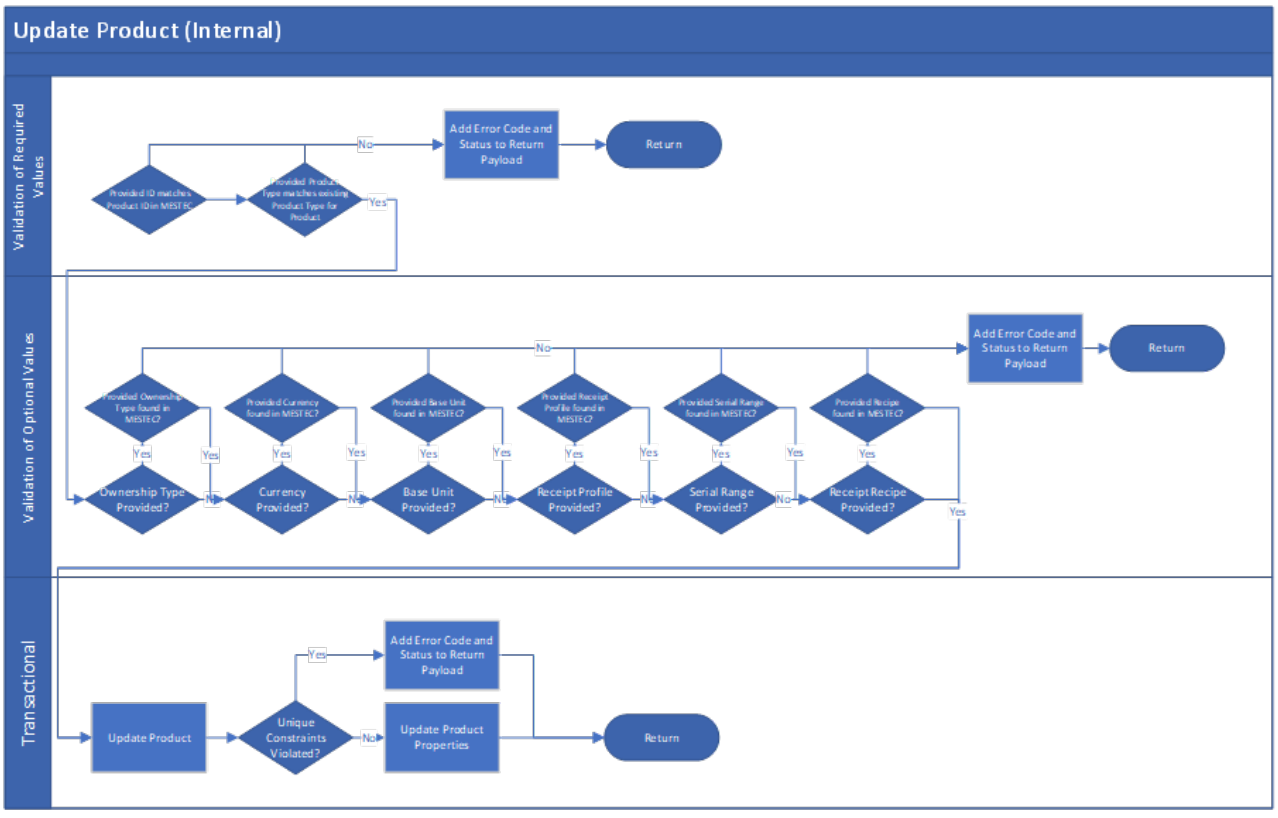


Figure 4 - Logic within Product/Upsert API Call Internal Transaction - Update Product



Prerequisites

When creating or updating a product, the following entities must already exist in Eyelit MES-M in order to be referenced.

- Product Type
- Ownership Type
- Currency
- Unit of Measure (Base Unit)
- Location
- Receipt Profile
- Receipt Recipe
- Serial Range

Request

Table 3 shows the method and endpoint required to make the API call to Product-Upsert.

Table 3 - Outbound Message Detail for Product- Upsert

Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/Product/Upsert

The body of the payload should follow the format below.

```
{
  "id": 0,
  "productType": "string",
  "suid": "string",
  "name": "string",
  "description": "string",
  "version": "string",
  "defaultOwnership": "string",
  "defaultCostPerUnit": 0,
  "defaultCurrency": "string",
  "baseUnit": "string",
  "receiptProfile": "string",
  "receiptRecipe": "string",
  "serialRange": "string",
  "defaultBatchSize": 0,
  "minScheduleBatchSize": 0,
  "scheduleBatchIncrement": 0,
  "maxScheduleBatchSize": 0,
  "peggingExpiryDays": 0,
  "shelfLifeDays": 0,
  "inventoryDecimalPlaces": 0,
  "location": "string",
  "isActive": true,
  "isPlanningConstraint": true,
  "properties": [
    {
      "name": "string",
      "value": "string"
    }
  ],
  "srcProductName": "string"
}
```

See Table 4 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 4 - Parameter Information for Product - Upsert

Parameter Name	Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		
ID	product.id	NUMBER	N/A	Yes	N/A	Exact
Product Type	producttype.name	VARCHAR2(250 BYTE)	Yes	N/A	No	Like
SUID	product.suid	VARCHAR2(200 BYTE)	No	No	N/A	N/A
Name	product.name	VARCHAR2(250 BYTE)	Yes	No	N/A	N/A
Description	Product.description	VARCHAR2(2000 BYTE)	No	No	N/A	N/A
Version	Product.version	VARCHAR2(50)	Yes	No	N/A	N/A
Default Ownership	Ownershiptype.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
Default Cost Per Unit	Product.defaultcostperunit	NUMBER	Yes	No	N/A	N/A
Default Currency	Currency.currencyname	VARCHAR2(50)	Yes	No	No	Exact
Base Unit	Unitofmeasure.unitname	VARCHAR2(30)	Yes	No	No	Exact
Receipt Profile	Receiptprofile.profilename	VARCHAR2(100)	Yes	No	No	Exact
Receipt Recipe	Recipe.name	VARCHAR2(200)	No	No	No	Exact
Serial Range	Serialrange.name	VARCHAR2(500)	No	No	No	Exact
Default Batch Size	Product.defaultbatchsize	NUMBER	Yes	No	N/A	N/A
Min Schedule Batch Size	Product.minschedulebatchsize	NUMBER	No	No	N/A	N/A
Schedule Batch Increment	Product.schedulebatchincrement	NUMBER	No	No	N/A	N/A
Max Schedule Batch Size	Product.maxschedulebatchsize	NUMBER	No	No	N/A	N/A
Pegging Expiry Days	Product.peggingexpirydays	NUMBER	No	No	N/A	N/A
Shelf Life Days	Product.shelflifedays	NUMBER	No	No	N/A	N/A
Inventory Decimal Places	Product.inventorydecimalplaces	NUMBER	Yes	No	N/A	N/A
Location	Location.name	VARCHAR2(20)	Yes	No	No	Exact
Is Active	Product.isactive	Bool	Yes	No	N/A	N/A
Is Planning Constraint	Product.isplanningconstraint	Bool	Yes	No	N/A	N/A

Properties: Name Properties: Value	Tablepropertydefinition.propertyname Productprop.value	VARCHAR2(50) VARCHAR2(500)	No No	No No	No N/A	Exact N/A
Source Product Name	Product.name	VARCHAR2(250 BYTE)	No	N/A	No	Exact

Note: For any fields where the match type is 'Like ', a percent symbol should be used as a wildcard character to indicate a number of characters within the given string.

Sample Request

```
{
  "id": 0,
  "productType": "Product Type A",
  "suid": "Product123",
  "name": "Product 123",
  "description": "This is a product",
  "version": "V1",
  "defaultOwnership": "Internal Owned",
  "defaultCostPerUnit": 1.50,
  "defaultCurrency": "GBP",
  "baseUnit": "Each",
  "receiptProfile": "string",
  "receiptRecipe": "string",
  "serialRange": "Serial Range 1",
  "defaultBatchSize": 100,
  "minScheduleBatchSize": 100,
  "scheduleBatchIncrement": 25,
  "maxScheduleBatchSize": 500,
  "peggingExpiryDays": 7,
  "shelfLifeDays": 7,
  "inventoryDecimalPlaces": 0,
  "location": "Loc01",
  "isActive": true,
  "isPlanningConstraint": true,
  "properties": [
    {
      "name": "Property 1",
      "value": "ABC123"
    }
  ],
  "srcProductName": "Product 456"
}
```

Response

When using the Product – Upsert API call, if a Product has been created or updated , a JSON payload will be returned containing data in the following structure:

```
[
  {
    "id": 0,
    "productType": "string",
    "suid": "string",
    "name": "string",
    "description": "string",
    "version": "string",
    "defaultOwnership": "string",
    "defaultCostPerUnit": 0,
    "defaultCurrency": "string",
    "baseUnit": "string",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "string",
    "defaultBatchSize": 0,
    "minScheduleBatchSize": 0,
    "scheduleBatchIncrement": 0,
    "maxScheduleBatchSize": 0,
    "peggingExpiryDays": 0,
    "shelfLifeDays": 0,
    "inventoryDecimalPlaces": 0,
    "location": "string",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties":
      [
        {
          "name": "string",
          "value": "string"
        }
      ]
  }
]
```


Sample Response

See below for sample use cases with examples of the JSON payload format returned.

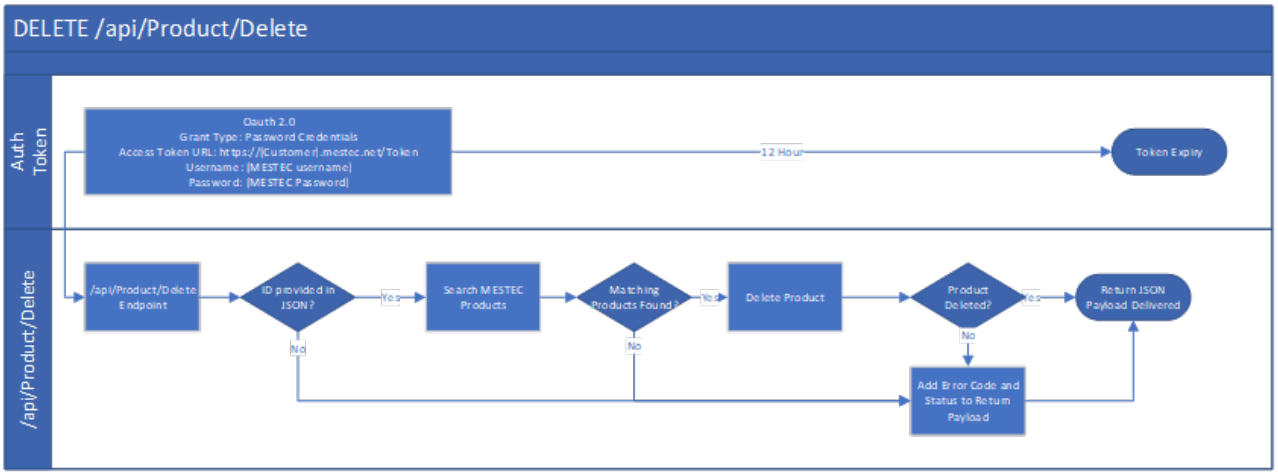

```
[
  {
    "id": 3456,
    "productType": "Product Type A",
    "suid": "Product123",
    "name": "Product 123",
    "description": "This is a product",
    "version": "V1",
    "defaultOwnership": "Internal Owned",
    "defaultCostPerUnit": 1.50,
    "defaultCurrency": "GBP",
    "baseUnit": "Each",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "Serial Range 1",
    "defaultBatchSize": 100,
    "minScheduleBatchSize": 100,
    "scheduleBatchIncrement": 25,
    "maxScheduleBatchSize": 500,
    "peggingExpiryDays": 7,
    "shelfLifeDays": 7,
    "inventoryDecimalPlaces": 0,
    "location": "Loc01",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties": [
      {
        "name": "Property 1",
        "value": "ABC123"
      }
    ]
  }
]
```

Delete

The Product – Delete API call attempts to delete a Product. A Product can only be deleted if it has not been used in Eyelit MES-M.

Figure 5 shows the logic used within the Product – Delete API call.

Figure 5 - Logic within Product/Delete API Call



Prerequisites

In order to delete a Product, the Product must exist in Eyelit MES-M. The Product have not been used and not be referenced against any other entities.

Request

Table 5 shows the method and endpoint required to make the API call to delete product.

Table 5 - Outbound Message Detail for Product - Delete

Method	URL Structure	Endpoint
DELETE	https://[environment].mestec.net	/api/Product/Delete

The body of the payload should follow the format below.

```
{
  "id": 0
}
```

See Table 6 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 6 - Parameter Information for Product - Delete

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type

Note: For any fields where the match type is 'Like', a percent symbol should be used as a wildcard character to indicate a number of characters within the given string.

Sample Request

See below for sample use cases with examples of the JSON payload format required.

Delete by ID

```
{
  "id": 28
}
```

Response

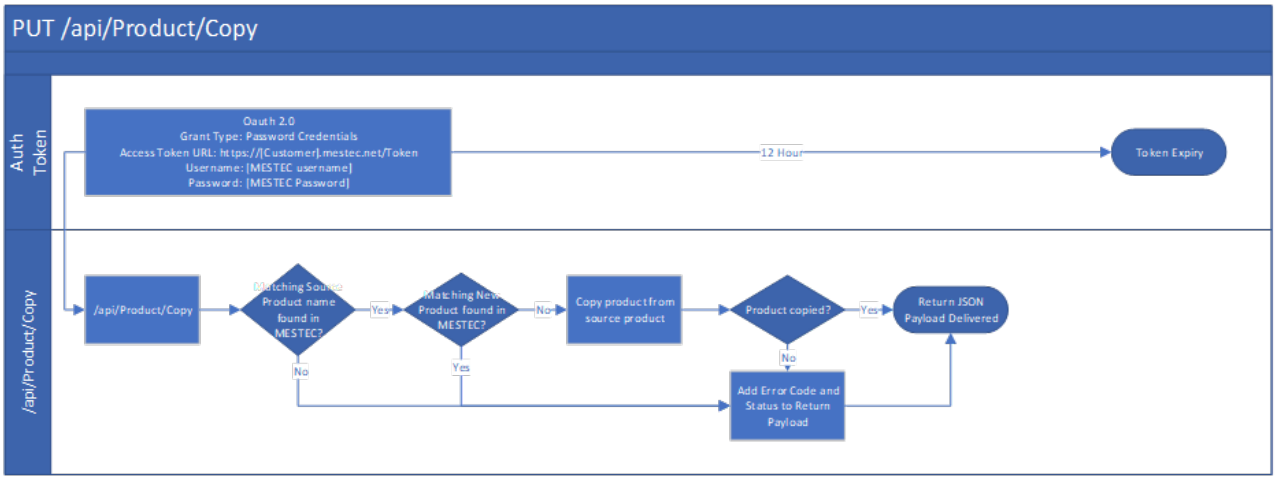
When using the Product – Delete API call, if a Product has been deleted a 200 status response will be returned.

Copy

The Product– Copy API call attempts to copy a Product from source product. A Product can only be copied if source product available in Eyelit MES-M.

Figure 6 shows the logic used within the Product– copy API call.

Figure 6 - Logic within Product/Copy API Call



Prerequisites

When copying a Product from source product, source product must exist in Eyelit MES-M.

Request

Table 7 shows the method and endpoint required to make the API call to copy product.

Table 7 - Outbound Message Detail for Product - Copy

Method	URL Structure	Endpoint

PUT	https://[environment].mestec.net	/api/Product/Copy

The body of the payload should follow the format below.

```
{
  "suid": "string",
  "name": "string",
  "description": "string",
  "srcProductName": "string"
}
```

See Table 8 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 8 - Parameter Information for Product - Copy

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
suid	product.suid	VARCHAR2(200 BYTE)	Yes	N/A	
name	product.name	VARCHAR2(50 BYTE)	Yes		
description	product.description	VARCHAR2(200 BYTE)	No		
srcProductName	product.name	VARCHAR2(50 BYTE)	Yes	N/A	Exact

Sample Request

See below for sample use cases with examples of the JSON payload format required.

```
{
  "suid": "Product_2",
  "name": " Product_2",
  "srcProductName": " Product_1"
}
```

Response

When using the Product -Copy API call, if a Product has been copied from source product, a JSON payload will be returned containing data in the following structure:

```
[
  {
    "id": 0,
    "productType": "string",
    "suid": "string",
    "name": "string",
    "description": "string",
    "version": "string",
    "defaultOwnership": "string",
    "defaultCostPerUnit": 0,
    "defaultCurrency": "string",
    "baseUnit": "string",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "string",
    "defaultBatchSize": 0,
    "minScheduleBatchSize": 0,
    "scheduleBatchIncrement": 0,
    "maxScheduleBatchSize": 0,
    "peggingExpiryDays": 0,
    "shelfLifeDays": 0,
    "inventoryDecimalPlaces": 0,
    "location": "string",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties":
      [
        {
          "name": "string",
          "value": "string"
        }
      ]
  }
]
```


Sample Response

See below for sample use cases with examples of the JSON payload format returned.


```
[
  {
    "id": 3456,
    "productType": "Product Type A",
    "suid": "Product_2",
    "name": "Product_2",
    "description": "This is a product",
    "version": "V1",
    "defaultOwnership": "Internal Owned",
    "defaultCostPerUnit": 1.50,
    "defaultCurrency": "GBP",
    "baseUnit": "Each",
    "receiptProfile": "string",
    "receiptRecipe": "string",
    "serialRange": "Serial Range 1",
    "defaultBatchSize": 100,
    "minScheduleBatchSize": 100,
    "scheduleBatchIncrement": 25,
    "maxScheduleBatchSize": 500,
    "peggingExpiryDays": 7,
    "shelfLifeDays": 7,
    "inventoryDecimalPlaces": 0,
    "location": "Loc01",
    "isActive": true,
    "isPlanningConstraint": true,
    "properties": [
      {
        "name": "Property 1",
        "value": "ABC123"
      }
    ]
  }
]
```