BoM

20/06/2025 1:57 pm BST

Tags: bom api

Versions

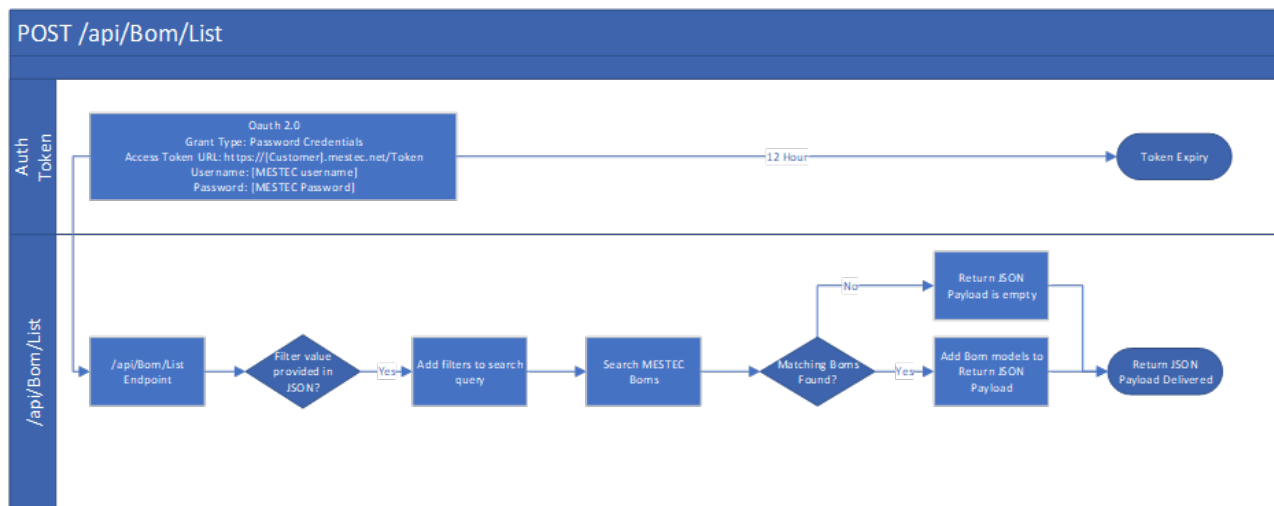Versions this documentation is relevant for:

- 8.7.0+

BoM is the header table in Eyelit MES-M for BoM Versions. It is used to link the BoM Versions to a product and a BoM Type.

List

The Bom – List API call reads existing BoMs 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 BoMs.

Using the Bom – List API call has no impact on the data within the given Eyelit MES-M application, it is read-only.

Figure 1 - Logic within Bom/List API Call

Data Prerequisites

There is no data required in Eyelit MES-M to act as a pre-requisite to make the API call to list BoMs. 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 Scheduled Jobs.

Table 1 - Outbound Message Detail for BoM - List

Method	URL Structure	Endpoint

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

The body of the payload should follow the format below.

JSON Structure for BoM List

```
{
  "id": 0,
  "product": "string",
  "bomType": "string",
  "name": "string",
  "suid": "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 Schedule – List

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
Id	Bom.id	NUMBER(10,0)	No	N/A	Exact
product	Product.name	VARCHAR2(50 BYTE)	No	No	Exact
bomType	Bomtype.name	VARCHAR2(50 BYTE)	No	No	Exact
name	Bom.name	VARCHAR2(100 BYTE)	No	No	Exact
suid	Bom.suid	VARCHAR2(120 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. See examples in Section 4.1.3.1 for use cases.

Sample Request

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

To list BoMs where the name equals 'ABC':

JSON Sample for BoM List Request B

```
{
  "name": "ABC"
}
```

Response

When using the Bom – 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:

JSON Structure for BoM List

```
[
  {
    "id": 0,
    "product": "string",
    "bomType": "string",
    "name": "string",
    "suid": "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:

JSON Sample for BoM List Response A

```
{

}
```

BoMs found that matched given parameters:

JSON Sample for BoM List Response B
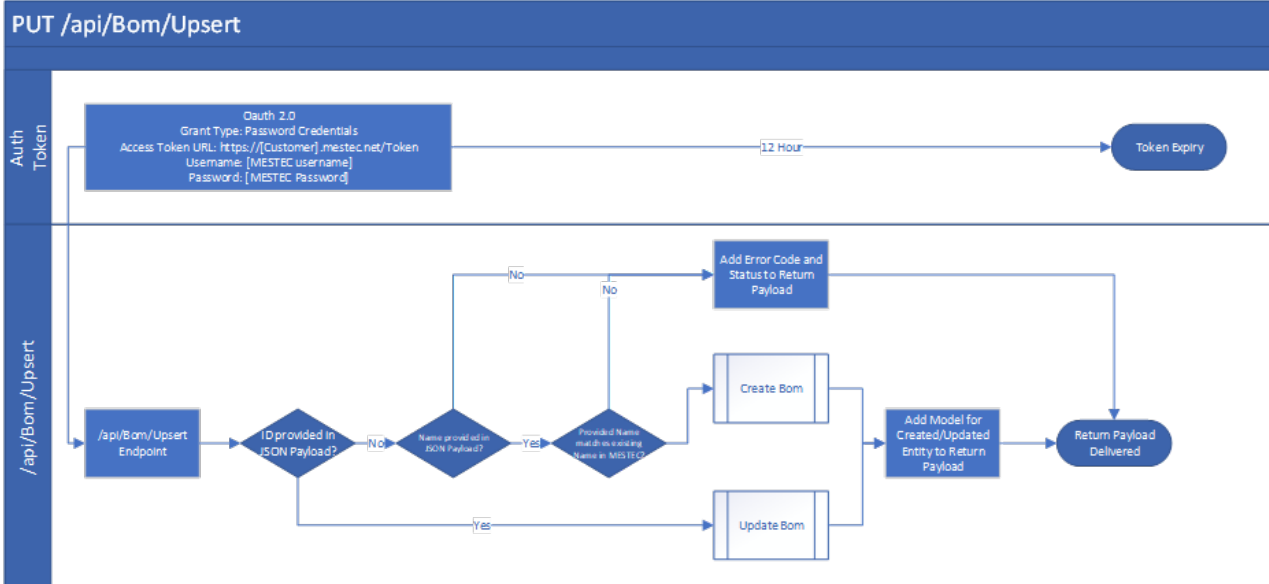
```
[
  {
    "id": 10,
    "product": "Product A",
    "bomType": "Bom Type 1",
    "name": "Bom ABC",
    "suid": "Bom1"
  }
]
```

Upsert

When BoM ID is provided, The Bom – Upsert API call checks if a BoM with the given ID already exists. If it does, appropriate fields are updated in the matching BoM in Eyelit MES-M.

When the BoM ID is omitted, a new BoM will be created.

Figure 2 - Logic within Bom/Upsert API Call

Data Prerequisites

A BoM references a product, and a BoM Type, these must all exist in Eyelit MES-M prior to BoM upsert.

Request

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

Table 3 - Outbound Message Detail for BoM - Upsert

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

The body of the payload should follow the format below.

```
{
  "id": 0,
  "product": "string",
  "bomType": "string",
  "name": "string",
  "suid": "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 BoM - Upsert

Parameter Name	Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		
id	Bom.id	NUMBER(10,0)	N/A	Yes	N/A	Exact
product	Product.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact

bomType	Bomtype.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
name	Bom.name	VARCHAR2(100 BYTE)	Yes	No	N/A	N/A
suid	Bom.suid	VARCHAR2(120 BYTE)	No	No	N/A	N/A

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 create a BoM.

```
{
  "product": "Product A",
  "bomType": "Bom Type 1",
  "name": "Bom 1",
  "suid": "Bom1"
}
```

To update name by ID.

```
{
  "id": 10,
  "name": "Bom ABC"
}
```

Response

When using the Bom – Upsert API call, if a BoM has been Created or Updated a JSON payload will be returned containing data in the following structure:

```
{
  "id": 0,
  "product": "string",
  "bomType": "string",
  "name": "string",
  "suid": "string"
}
```

Sample Response

See below for sample use cases with examples of the JSON payload format returned.
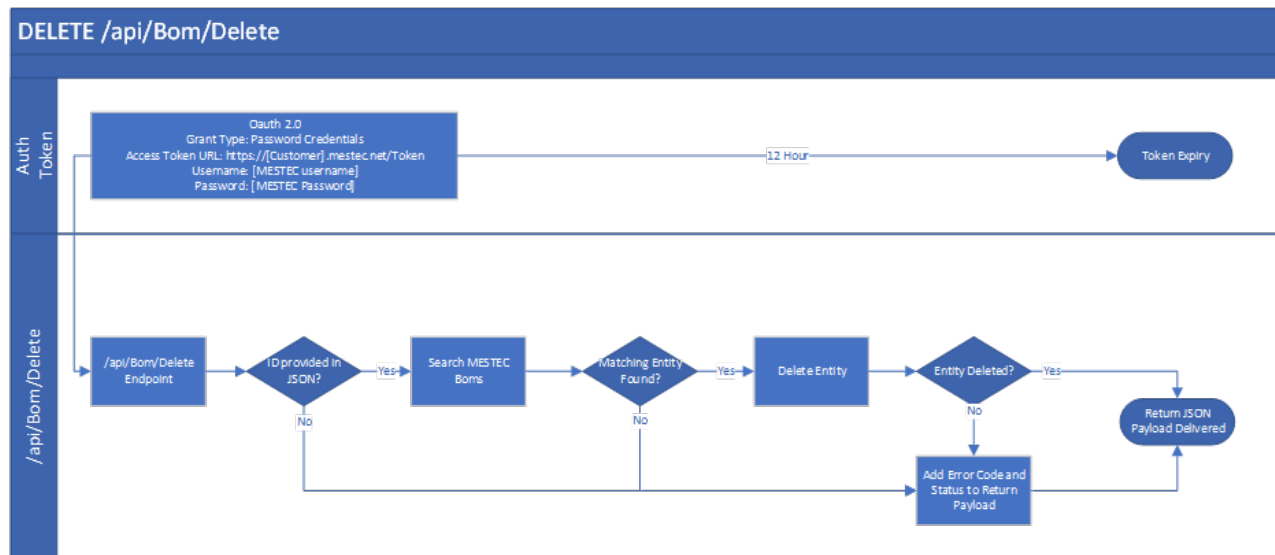
```
{
  "id":10,
  "product": "Product A",
  "bomType": "Bom Type 1",
  "name": "Bom ABC",
  "suid": "Bom1"
}
```

Delete

The Bom – Delete API call attempts to delete a BoM. A BoM can be deleted as long as it has not been used.

Figure 3 shows the logic used within the Bom – Delete API call.

Figure 3 - Logic within Bom/Delete API Call

Data Prerequisites

In order to delete a BoM it must exist in Eyelit MES-M and not currently be in use.

Request

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

Table 5 - Outbound Message Detail for BoM - Delete

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

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	Bom.ID	Number	Yes	N/A	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.

Delete by ID

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

Response

When using the Bom – Delete API call, if a BoM has been Deleted a 200 status response will be returned.