BoM Version

23/10/2025 11:13 am BST

Tags: Recipe API BoM API

Versions

Versions this documentation is relevant for:

- *8.7.0+*

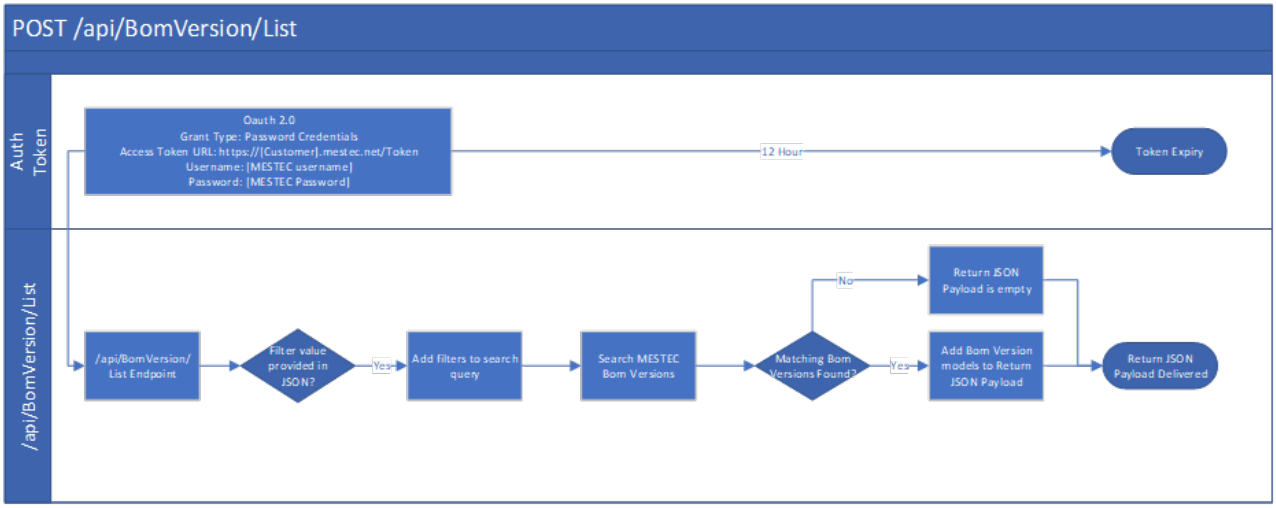
A BoM Version in Eyelit MES-M is the definition BoM that is referenced by a scheduled job via a recipe.
It contains the BoM slots which need to be satisfied in order to produce the product.

List

The Bom Version – List API call reads existing BoM Versions 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 BoM Versions.

Using the Bom Version – 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 Version/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 BoM Versions. 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 Version - List

Method	URL Structure	Endpoint

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

The body of the payload should follow the format below.

JSON Structure for BoM Version List

```
{
  "id": 0,
  "bom": "string",
  "scheduleID": 0,
  "majorVersion": 0,
  "minorVersion": 0,
  "approvalStatus": "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 BomVersion - List

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
id	Bomversion.id	NUMBER	No	N/A	Exact
bom	Bom.name	VARCHAR2(100 BYTE)	No	No	Exact
scheduleID	Bomversion.scheduleid	NUMBER	No	N/A	Exact
majorVersion	Bomversion.majorversion	NUMBER	No	No	Exact
minorVersion	Bomversion.minorversion	NUMBER	No	No	Exact
approvalStatus	Approvalstatus.name	VARCHAR2(50 BYTE)	No	No	Exact
suid	Bomversion.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.

Sample Request

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

To list BoM Versions where the name is 'ABC':

JSON Sample for BoM Version List Request B

```
{
  "bom": "ABC"
}
```

Response

When using the Bom Version – 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 Version List


```
[
  {
    "id": 0,
    "bom": "string",
    "version": "string",
    "description": "string",
    "approvalStatus": "string",
    "changeReference": "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 Version List Response A


```
{

}
```


BoM Versions found that matched given parameters:

JSON Sample for BoM Version List Response B

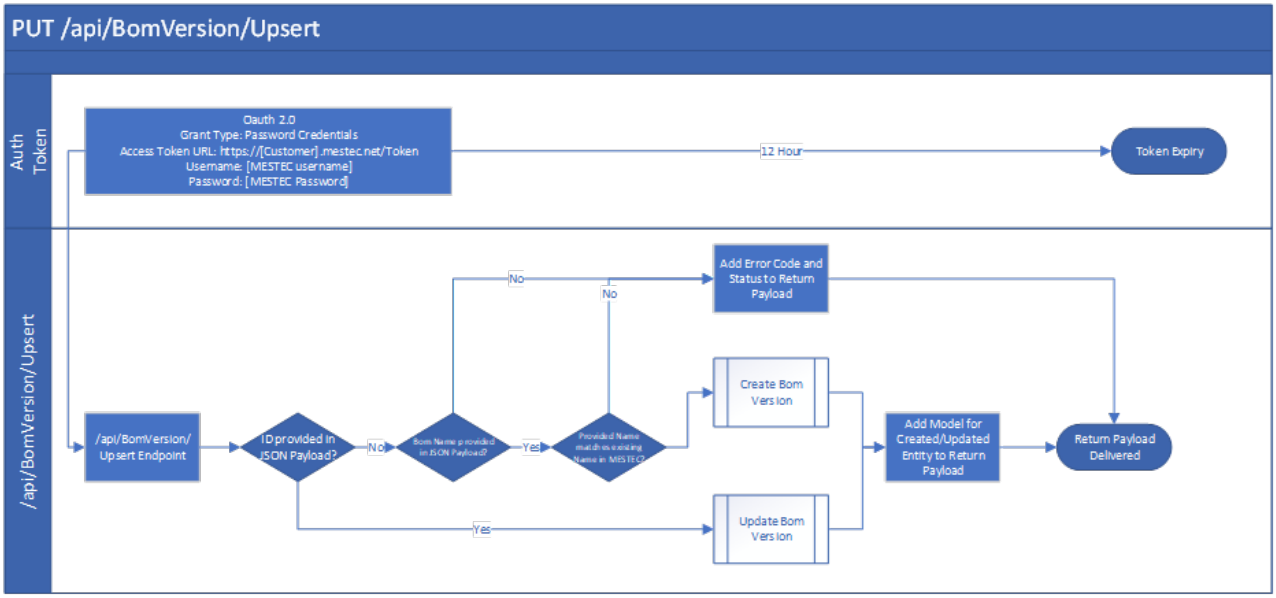

```
[
  {
    "id": 10,
    "bom": "ABC",
    "version": "1.0",
    "description": "Initial Bom",
    "approvalStatus": "Approved",
    "changeReference": "CR001",
    "suid": "BomABC"
  }
]
```


Upsert

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

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

Figure 2 - Logic within Bom Version /Upsert API Call



Data Prerequisites

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

Request

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

Table 3 - Outbound Message Detail for Bom Version - Upsert

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

The body of the payload should follow the format below.

```
{
  "id": 0,
  "bom": "string",
  "version": "string",
  "description": "string",
  "approvalStatus": "string",
  "changeReference": "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 Version - Upsert

Parameter Name	Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		

id	Bomversion.id	NUMBER	N/A	Yes	N/A	Exact
bom	Bom.name	VARCHAR2(100 BYTE)	Yes	No	No	Exact
version	Bom.majorversion/minorversion	N/A	Yes	No	N/A	N/A
approvalStatus	Approvalstatus.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
changeReference	Bomversion.changeref	VARHCAR2(100 BYTE)	No	No	No	N/A
suid	Bomversion.suid	VARCHAR2(120 BYTE)	No	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 create a BoM Version.

```
{
  "bom": "Bom ABC",
  "description": "Updated Bom",
  "approvalStatus": "Draft",
  "changeReference": "CR001.2",
  "suid": "BomABC"
}
```

To update description by ID.

```
{
  "id": 28,
  "description": "Updated through API Call"
}
```

Response

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

```
{
  "id": 0,
  "bom": "string",
  "version": "string",
  "description": "string",
  "approvalStatus": "string",
  "changeReference": "string",
  "suid": "string"
}
```

Sample Response

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

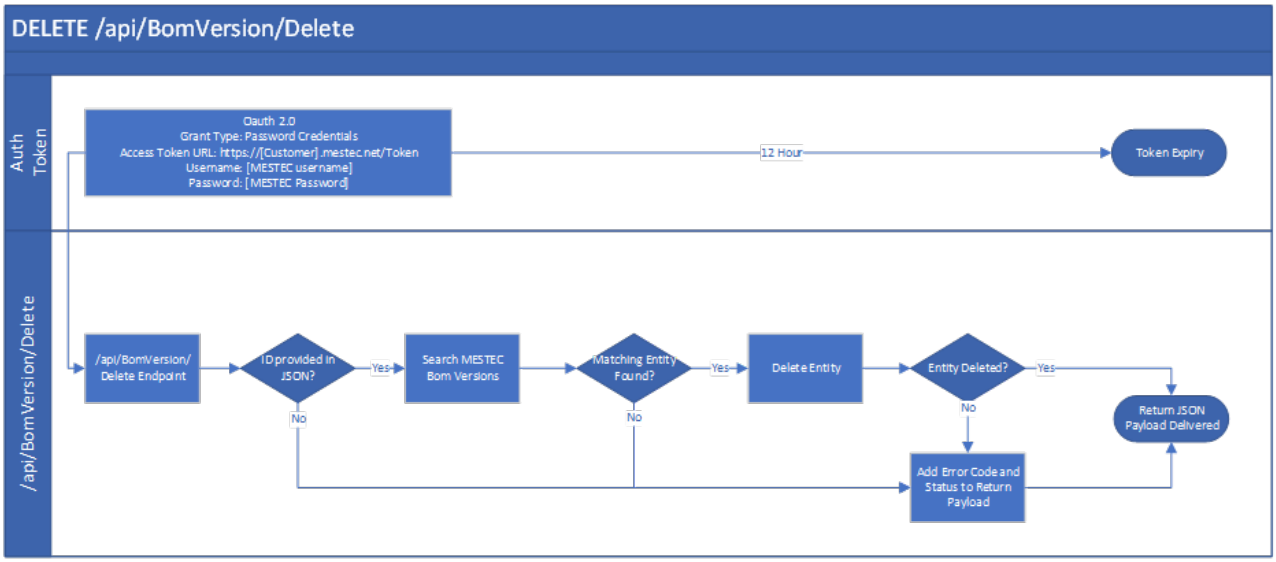
```
{
  "id": 11,
  "bom": "Bom ABC",
  "version": "1.1",
  "description": "Initial Bom",
  "approvalStatus": "Approved",
  "changeReference": "CR001.1",
  "suid": "BomABC"
}
```


Delete

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

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

Figure 3 - Logic within BoM Version/Delete API Call



Data Prerequisites

In order to delete a BoM Version 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 Version.

Table 5 - Outbound Message Detail for BoM Version - Delete

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

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	Bom Version.id	NUMBER	No	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 Version – Delete API call, if a Scheduled Job has been Deleted a 200 status response will be returned.