BoM Slot

23/10/2025 11:14 am BST

Recipe BoM Tags: API API

Versions

Versions this documentation is relevant for:

8.7.0+

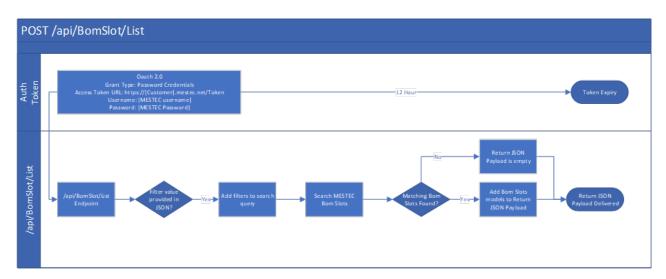
A BoM slot is a requirement to be satisfied in a BoM . It is linked to a specific BoM Version .

List

The BoM Slot – List API call reads existing BoM Slots 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 Slots.

Using the BoM Slot - 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 Slot/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 Slots. 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 Slot - List

S S	
Method URL Structure	Endpoint

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

The body of the payload should follow the format below.

JSON Structure for BoM Slot List

```
"id": 0,
"product": "string",
"bom": "string",
"version": "string",
"slotType": "string",
"isActive": true,
"isRequired": true
```

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	e Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
Id	Bomslot.id	NUMBER(10,0)	No	N/A	Exact
Product	Product.name	VARCHAR2(50 BYTE)	No	No	Exact
Bom	Bom.name	VARCHAR2(100 BYTE)	No	No	Exact
Version	Bomversion.majorversion/minorversion	N/A	No	No	Exact
slotType	Buildslottype.buildslottypename	VARCHAR2(50 BYTE)	No	No	Exact
isActive	Bomslot.isactive	BOOL	No	N/A	Exact
isRequired	Bomslot.isrequired	BOOL	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

To list BoM Slots where the from BoM 'BomABC':

JSON Sample for BoM Slot List Request B

```
{
   "bom": "BomABC"
}
```

Response

When using the BoM Slot – 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 Slot List

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 Slot List Response A

{

BoM Slots found that matched given parameters:

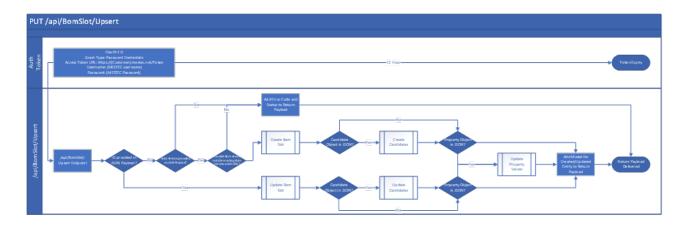
JSON Sample for BoM Slot List Response B

Upsert

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

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

Figure 2 - Logic within BoM Slot/Upsert API Call



Data Prerequisites

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

Request

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

Table 3 - Outbound Message Detail for BoM Slot - Upsert

	9	,
Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/BomSlot/Upsert

The body of the payload should follow the format below.

```
{
  "parentProductName": "string",
  "id": 0,
"bom": "string",
  "version": "string",
  "description": "string",
"buildSlotType": "string",
  "isActive": true,
  "isRequired": true,
  "instruction": "string",
  "edhrBomRequired": true,
"edhrBuildRequired": true,
  "candidates": [
     {
        "id": 0,
"product": "string",
"version": "string",
        "isActive": true,
       "qty": 0,
"minQty": 0,
        "maxQty": 0,
        "isDefault": true,
"useUom": "string"
    }
  "properties": [
     {
       "property": "string",
"value": "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 Slot - Upsert

Parameter Name	Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		
ParentProductName	Product.name	VARCHAR2(50 BYTE)	Yes	No		
id	Bmoslot.id	NUMBER(10,0)	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
description	Bomslot.description	VARCHAR2(200 BYTE)	Yes	No	N/A	N/A
buildSlotType	Buildslottype.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
isActive	Bomslot.isactive	BOOL	Yes	No	N/A	N/A
isRequired	Bomslot.isrequired	BOOL	Yes	No	N/A	N/A
instruction	Bomslot.instruction	VARCHAR2(2000 BYTE)	No	No	N/A	N/A
edhrBomRequired	Bomslot. edhrbomrequired	Number	Yes	No		

edhrBuildRequired	Bomslot.edhrbuildrequired	Number	Yes	No		
candidates	N/A	JSON Array	No	No	N/A	N/A
id	Bomslotcandidate.id	NUMBER(10,0)	No	Yes	N/A	Exact
product	Product.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
version	Bomsltcandidate.version	VARCHAR2(50 BYTE)	No	No	N/A	N/A
isActive	Bomslotcandidate.isactive	BOOL	Yes	No	N/A	N/A
qty	Bomslotcandidate.childqty	FLOAT	Yes	No	N/A	N/A
minQty	Bomslotcandidate.minqty	FLOAT	Yes	No	N/A	N/A
maxQty	Bomslotcandidate.maxqty	FLOAT	No	No	N/A	N/A
isDefault	Bomslotcandidate.isdefaultcandidate	BOOL	Yes	No	N/A	N/A
useUom	Unitofmeausre.unitname	VARCHAR2(30 BYTE)	No	No	No	Exact
Properties	N/A	JSON Array	No	No	N/A	N/A
property	Tablepropertydefinition.propertyname	VARCHAR2(50 BYTE)	Yes	No	No	Exact
slotID	Bomslotproperty.tableid	NUMBER(10,0)	No	No	N/A	Exact
value	Bomslotproperty.value	VARCHAR2(500 BYTE)	Yes	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 Slot.

```
"parentProductName": "Product_2",
  "bom": "BomABC",
  "version": "1.1",
  "description": "ERP Bom",
  "buildSlotType": "Default",
  "isActive": true,
  "isRequired": true,
  "instruction": "Record cnsumed Lots",
  "edhrBomRequired": true,
  "edhrBuildRequired": true,
  "candidates": [
   {
      "product": "Product1",
"version": "1",
      "isActive": true,
      "qty": 10,
      "minQty": 5,
      "maxQty": 15,
      "isDefault": true,
      "useUom": "EA"
   }
  ],
  "properties": [
      "property": "SlotPropertyl",
      "slotID": 100,
"value": "ABC"
   }
 ]
To update description by ID.
  "id": 28,
  "description": "Updated through API Call"
```

Response

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

```
{
  "id": 0,
  "BomVersionID": "string",
  "description": "string",
  "buildSlotType": "string",
  "isActive": true,
  "isRequired": true,
  "instruction": "string"
```

Sample Response

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

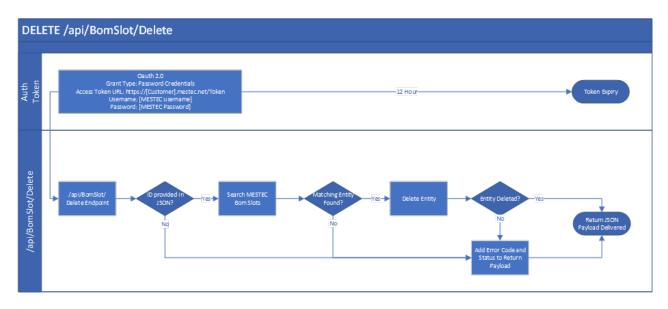
```
"id": 1234,
"BomVersionID": 2345,
"description": " ERP Bom ",
"buildSlotType": " Default ",
"isActive": true,
"isRequired": true,
"instruction": " Record cnsumed Lots "
```

Delete

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

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

Figure 3 - Logic within BoM Slot/Delete API Call



Data Prerequisites

In order to delete a BoM Slot 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 Slot.

Table 5 - Outbound Message Detail for BoM Slot - Delete

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

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	Bom Slot.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

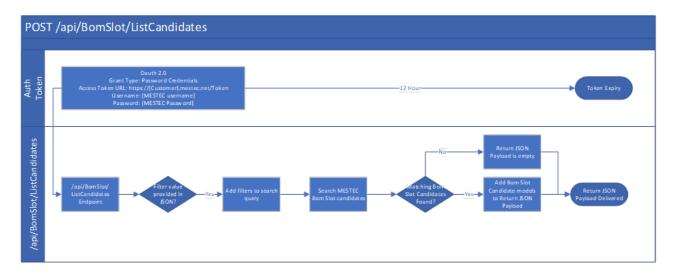
When using the BoM Slot - Delete API call, if a BoM Slot has been Deleted a 200 status response will be returned.

List Candidates

The BoM Slot Candidate – List API call reads existing BoM Slot Candidates 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 Slot Candidates.

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

Figure 4 - Logic within BoM Slot Candidate/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 Slot Candidates. If parameters are passed in through the body that return no valid results, an empty payload will be returned.

Request

Table 7 shows the method and endpoint required to make the API call to list Scheduled Jobs.

Table 7 - Outbound Message Detail for BoM Slot Candidate - List

Method	URL Structure	Endpoint
POST	https://[environment].mestec.net	/api/BomSlot/ListCandidates

The body of the payload should follow the format below.

JSON Structure for BoM Slot Candidate List

```
{
   "bomSlotID": 0
```

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 BoM slot candidates - List

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
bomSlotID	Bomslot.id	NUMBER(10,0)	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.

To list BoM Slot Candidates by BoM Slot ID:

JSON Sample for BoM Slot Candidate List Request B

```
{
    "bomSlotID": 10
```

Response

When using the BoM Slot Candidate – 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 Slot Candidate List

```
"id": 0,
   "product": "string",
   "version": "string",
   "isActive": true,
   "qty": 0,
   "minQty": 0,
   "isDefault": true,
   "useUom": "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 Slot Candidate List Response A
```

{ }

BoM Slot Candidates found that matched given parameters:

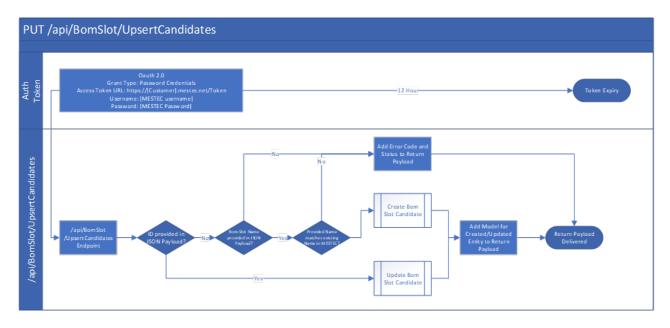
JSON Sample for BoM Slot Candidate List Response B

```
"id": 100,
    "product": "Product1",
    "version": "1",
    "isActive": true,
    "qty": 10,
    "minQty": 5,
    "maxQty": 15,
    "isDefault": true,
    "useUom": "EA"
}
```

Upsert Candidates

When BoM Slot Candidate ID is provided, The BoM Slot—UpsertCandidates API call checks if a BoM Slot Candidate with the given ID already exists. If it does, appropriate fields are updated in the matching BoM Slot Candidate in Eyelit MES-M. When the BoM Slot Candidate ID is omitted, a new BoM Slot Candidate will be created.

Figure 5 - Logic within BoM Slot/UpsertCandidates API Call



Data Prerequisites

A BoM Slot Candidate references a product, and a BoM slot, these must all exist in Eyelit MES-M prior to BoM Slot- UpsertCandidates.

Request

Table 9 shows the method and endpoint required to make the API call to Upsert BoM Slot Candidate.

Table 9 - Outbound Message Detail for BoM Slot-UpsertCandidates

	8	,
Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/BomSlot/UpsertCandidates

The body of the payload should follow the format below.

```
"bomSlotID": 0,
"candidates": {
    "id": 0,
    "product": "string",
    "version": "string",
    "isactive": true,
    "qty": 0,
    "minQty": 0,
    "maxQty": 0,
    "isbefault": true,
    "useUom": "string"
    ]
}
```

See Table 10 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 10 - Parameter Information for BoM Slot-UpsertCandidates

Parameter Nar	me Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		
bomSlotID	Bomslot.id	NUMBER(10,0)	Yes	Yes	N/A	Exact
candidates	N/A	JSON Array	Yes	Yes	N/A	N/A
id	Bomslotcandidate.id	NUMBER(10,0)	N/A	Yes	N/A	Exact
product	Product.name	VARCHAR2(50 BYTE)	Yes	No	No	Exact
version	Bomsltcandidate.version	VARCHAR2(50 BYTE)	No	No	N/A	N/A
isActive	Bomslotcandidate.isactive	BOOL	Yes	No	N/A	N/A
qty	Bomslotcandidate.childqty	FLOAT	Yes	No	N/A	N/A
minQty	Bomslotcandidate.minqty	FLOAT	Yes	No	N/A	N/A
maxQty	Bomslotcandidate.maxqty	FLOAT	No	No	N/A	N/A
isDefault	Bomslotcandidate.isdefaultcandidate	BOOL	Yes	No	N/A	N/A
useUom	Unitofmeausre.unitname	VARCHAR2(30 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 created a BoM Slot Candidate.

To update is Active by ID.

Response

When using the BoM Slot - UpsertCandidates API call, if a BoM Slot Candidate has been Created or Updated a JSON payload will be returned containing data in the following structure:

```
[
    "id": 0,
    "product": "string",
    "version": "string",
    "isActive": true,
    "qty": 0,
    "minQty": 0,
    "maxQty": 0,
    "isDefault": true,
    "useUom": "string"
]
```

Sample Response

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

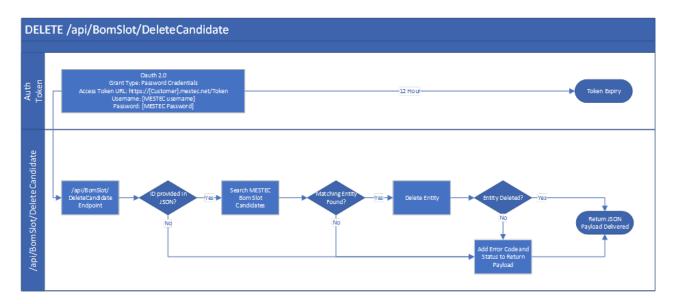
```
[
    "id": 100,
    "product": "Product1",
    "version": "1",
    "isActive": false,
    "qty": 10,
    "minQty": 5,
    "maxQty": 15,
    "isDefault": true,
    "useUom": "EA"
}
```

Delete Candidate

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

Figure 6 shows the logic used within the BoM Slot Candidate – Delete API call.

Figure 6 - Logic within BoM Slot/DeleteCandidate API Call



Data Prerequisites

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

Request

Table 11 shows the method and endpoint required to make the API call to delete a BoM Slot Candidate.

Table 11 - Outbound Message Detail for BoM Slot- DeleteCandidiate

Method	URL Structure	Endpoint
DELETE	https://[environment].mestec.net	/api/BomSlot/DeleteCandidate

The body of the payload should follow the format below.

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

See Table 12 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 12 - Parameter Information for BoM Slot- DeleteCandidate

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	Bom Slot Candidate.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

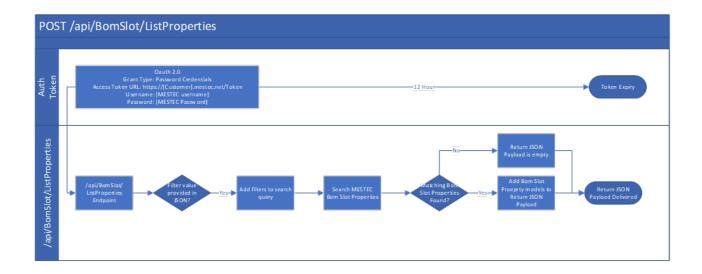
When using the BoM Slot Candidate – Delete API call, if a BoM Slot candidate has been Deleted a 200 status response will be returned.

List Properties

The BoM Slot- List Properties API call reads existing BoM Slot Properties 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 Slot Properties.

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

Figure 7 - Logic within BoM Slot/ListProperties 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 Slot Properties. If parameters are passed in through the body that return no valid results, an empty payload will be returned.

Request

Table 13 shows the method and endpoint required to make the API call to list Scheduled Jobs.

Table 13 - Outbound Message Detail for BoM Slot-ListProperties

Method	URL Structure	Endpoint		
POST	https://[environment].mestec.net	/api/BomSlot/ListProperties		

The body of the payload should follow the format below.

Figure 41 - JSON Structure for BoM Slot Properties List

```
{
  "bomSlotID": 0
```

See Table 14 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 14 - Parameter Information for BoM Slot-ListProperties

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
bomSlotID	Bomslot.id	NUMBER(10,0)	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. See examples in Section 3.1.3.1 for use cases.

Sample Request

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

To list BoM Slot Properties by BoM slot ID:

JSON Sample for BoM Slot Properties List Request B

```
{
    "bomSlotID": 10
}
```

Response

When using the BoM Slot Properties – 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 Slot Properties List

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 Slot Properties List Response A

}

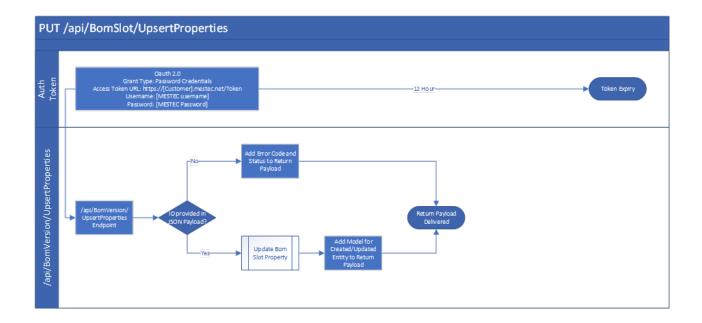
BoM Slot Properties found that matched given parameters:

JSON Sample for BoM Slot Properties List Response B

Upsert Properties

This endpoint allows for the setting of BoM Slot Property values. The properties cannot be created from this transaction.

Figure 8 - Logic within BoM Slot/UpsertProperties API Call



Data Prerequisites

The BoM Slot and the property definition must already exist in Eyelit MES-M.

Request

Table 15 shows the method and endpoint required to make the API call to Upsert BoM Slot Properties.

Table 15 - Outbound Message Detail for BoM Slot- UpsertProperties

Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/BomSlot/UpsertProperties

The body of the payload should follow the format below.

See Table 16 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 16 - Parameter Information for BoM Slot-UpsertProperties

		1	1	1		1
Parameter Nam	Data Mapping	Data Type	Mandatory		Case Sensitive	Match Type
			Create	Update		
bomSlotID	Bomslot.id	NUMBER(10,0)	Yes	Yes	N/A	Exact
properties	N/A	JSON Array	Yes	Yes	N/A	N/A
property	Tablepropertydefinition.propertyname	VARCHAR2(50 BYTE)	Yes	No	No	Exact

value	Bomslotproperty.value	VARCHAR2(500 BYTE)	Yes	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 set a BoM Slot Properties.

```
{
  "bomSlotID": 100,
  "properties": [
     {
      "property": "BomSlotPropertyl",
      "value": "ABC"
     }
}
```

Response

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

```
[
     {
        "property": "string",
        "slotID": 0,
        "value": "string"
      }
}
```

Sample Response

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

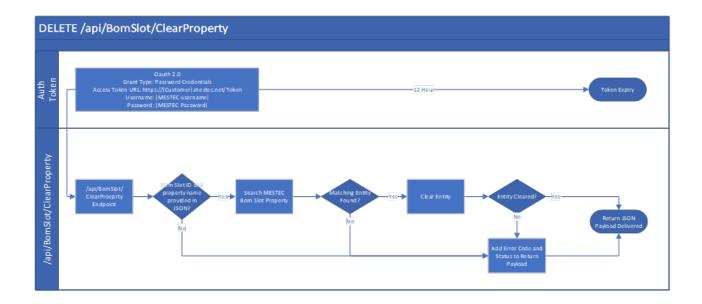
```
[
    "property": "BomSlotPropertyl",
    "slotID": 100,
    "value": "ABC"
    ]
}
```

Clear Property

The BoM Slot Property – Clear API call attempts to clear a BoM Slot Property. A BoM Slot Property can be cleared as long as it has not been used.

Figure 9 shows the logic used within the BoM Slot Property - Clear API call.

Figure 9 - Logic within BoM Slot/ClearProperty API Call



Data Prerequisites

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

Request

Table 17 shows the method and endpoint required to make the API call to clear a BoM Slot Property.

Table 17 - Outbound Message Detail for BoM Slot - ClearProperty

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Method URL Structure		Endpoint			
DELETE	https://[environment].mestec.net	/api/Bom Slot/ClearProperty			

The body of the payload should follow the format below.

```
{
  "bomSlotID": 0,
  "property": "string"
}
```

See Table 18 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 18 - Parameter Information for BoM Slot - ClearProperty

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
BomSlotId	Bom Slot.id	NUMBER	Yes	N/A	Exact
property	Tablepropertydefiniiton.name	VARCHAR2(50 BYTE)	Yes	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 3.1.3.1 for use cases.

Sample Request

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

Clear by ID and Property Name

```
{
  "bomSlotID": 100,
  "property": "BomSlotPropertyl"
```

Response

When using the BoM Slot- Clear Property API call, if property has been cleared a 200 status response will be returned.