

# Material Consumptions

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Relates to version

Tags: 8.0

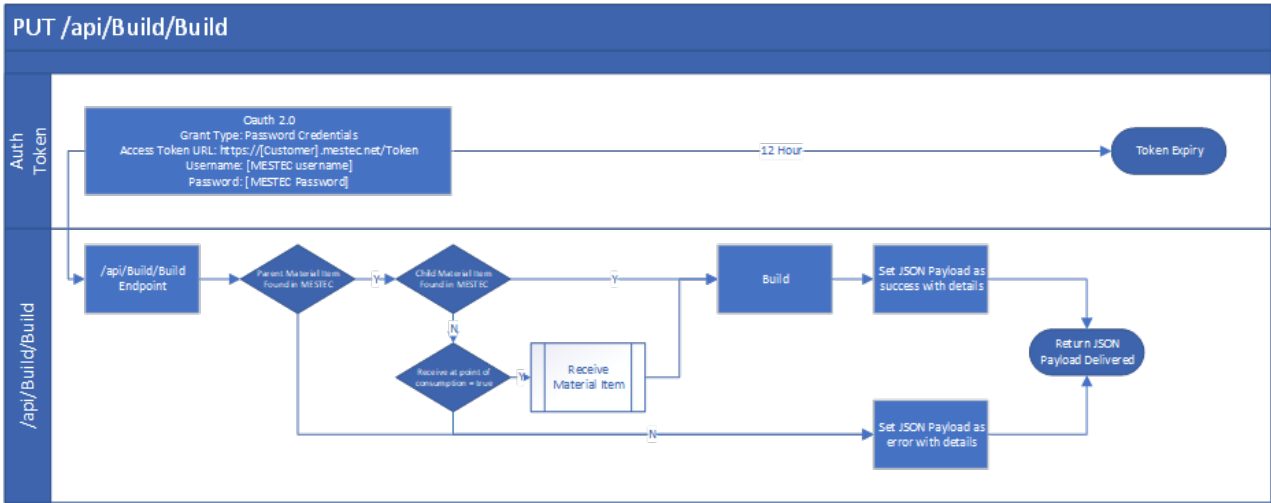
## Build

The act of consuming a child item into a parent item.

This endpoint allows for consumptions in a third part system to be mirrored in Eyelit MES-M.

Where inventory is not being managed in Eyelit MES-M, receipt at point of consumption can be enabled which allows for the creation of child items through the endpoint for a streamlined experience.

Figure 1 - Logic within Build/Build API Call



## Data Prerequisites

A build transaction in Eyelit MES-M is performed against a Material Item. The Serial No for the parent Material Item must be included in the payload.

This means that a works order must be started before a consumption can be recorded against the Material Item it is producing.

Additionally, the child item must be of a product that is defined with the parent item's Bill of Materials.

## Request

Table 2 shows the method and endpoint required to make the API call to build.

Table 2 - Outbound Message Detail for Build

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

The body of the payload should follow the format below.

Figure 2 - JSON Structure for Build

```
{
  "parentSerialNo": "string",
  "childSerialNo": "string",
  "builtQty": 0,
  "receiveAtPointOfConsumption": true,
  "itemDetails": [
    {
      "productName": "string",
      "expiryDate": "2024-07-09T20:47:22.296Z",
      "batchNo": "string",
      "version": "string",
      "costPerUnit": 0,
      "currency": "string"
    }
  ]
}
```

See Table 3 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 3 - Parameter Information for Build

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
parentSerialNo	materialitem.visualserialno	VARCHAR2	Yes	No	Exact
childSerialNo	materialitem.visualserialno	VARCHAR2(250 BYTE)	Yes	No	Exact
builtQty	Buildrecord.qty	NUMBER	Yes	N/A	N/A
receiveAtPointOfConsumption	N/A	BOOL	Yes	N/A	N/A
itemDetails	N/A	JSON object	No1	N/A	N/A
productName	Product.name	VARCHAR2	Yes	No	Exact
expiryDate	Materialitem.expirydt	TIMESTAMP	No	N/A	N/A
batchNo	Materialitem.batchno	VARCHAR2	No	N/A	N/A
version	MaterialItem.version	VARCHAR2	No	N/A	N/A
costPerUnit	Materialitem.costperunit	NUMBER	No	N/A	N/A
currency	Currency.name	VARCHAR2	No2	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 build an existing child item to a parent item:

Figure 3 - JSON Sample for Build Request A

```
{
  "parentSerialNo": "ABC123",
  "childSerialNo": "DEF456",
  "builtQty": 10,
  "receiveAtPointOfConsumption": false
}
```

To receive a new child item and build into a parent item :

*Figure 4 - JSON Sample for Build Request B*

```
{
  "parentSerialNo": "ABC123",
  "childSerialNo": "DEF456",
  "builtQty": 10,
  "receiveAtPointOfConsumption": true,
  "itemDetails": [
    {
      "productName": "Product A",
      "expiryDate": "2024-07-09T20:47:22.296Z",
      "batchNo": "Batch26",
      "version": "11",
      "costPerUnit": 1.43,
      "currency": "GBP"
    }
  ]
}
```

## Response

When a build is successfully completed through the endpoint, a JSON payload will be returned containing data in the following structure:

```
{
  "parentSerialNo": "string",
  "childSerialNo": "string",
  "productName": "string",
  "bomSlotID": 0,
  "qty": 0,
  "bomVersion": "string"
}
```

## Sample Response

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

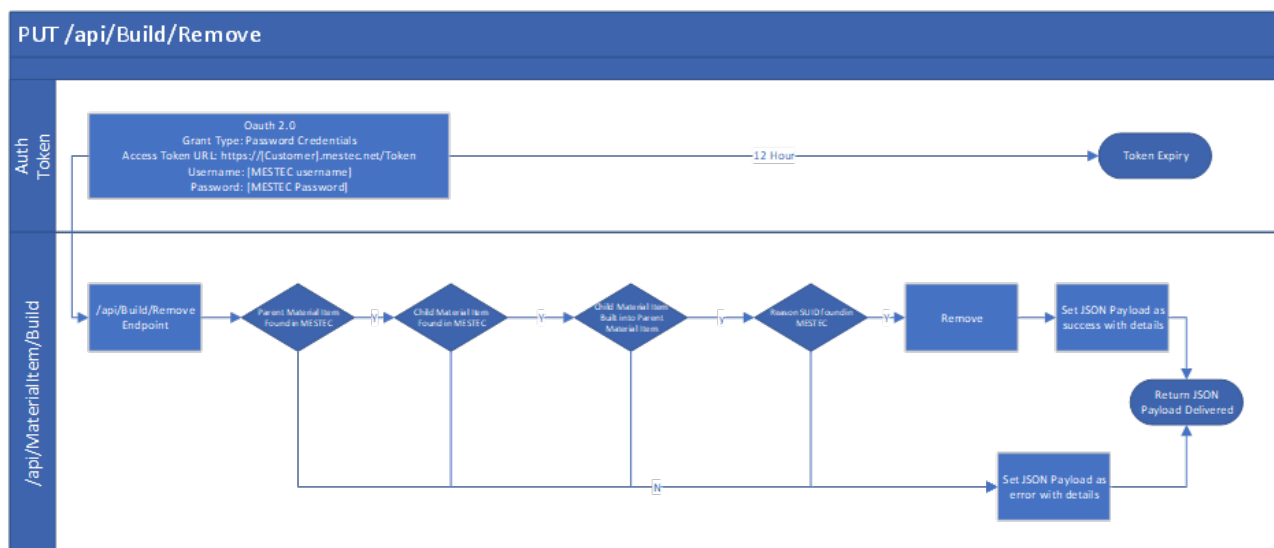
No results were found that matched given parameters:

```
{
  "parentSerialNo": "ABC123",
  "childSerialNo": "DEF456",
  "productName": "Product 1",
  "bomSlotID": 12345,
  "qty": 10,
  "bomVersion": "1.0"
}
```

# Remove

This endpoint allows for reversals of consumption in a third part system to be mirrored in Eyelit MES-M.

*Figure 5 - Logic within Build/Remove API Call*



## Data Prerequisites

The Child Material Item must be built into the Parent Material Item with sufficient quantity to be removed.  
The reason SUID provided must match an existing Material Reason in Eyelit MES-M which is assigned to the Remove transaction

## Request

Table 4 shows the method and endpoint required to make the API call to Remove.

Table 4 - Outbound Message Detail for Remove

Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/Build/Remove

The body of the payload should follow the format below.

```

{
  "parentSerialNo": "string",
  "childSerialNo": "string",
  "removeQty": 0,
  "comments": "string",
  "reasonSUID": "string"
}

```

See Table 5 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 5 - Parameter Information for Remove

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
parentSerialNo	materialitem.visualserialno	VARCHAR2	Yes	No	Exact
childSerialNo	materialitem.visualserialno	VARCHAR2(250 BYTE)	Yes	No	Exact
removeQty	Buildrecord.qty	NUMBER	Yes	N/A	N/A

comments	MaterialTransactionLog.Comments	VARCHAR2	No	N/A	N/A
reasonSUID	MaterialReason.SUID	VARCHAR2	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.

## Sample Request

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

To remove an existing child item to a parent item:

```
{
  "parentSerialNo": "ABC123",
  "childSerialNo": "DEF456",
  "removeQty": 5,
  "comments": "Removed through integration",
  "reasonSUID": "RMVL001"
}
```

## Response

When a build is successfully completed through the endpoint, a JSON payload will be returned containing data in the following structure:

```
{
  "parentSerialNo": "string",
  "childSerialNo": "string",
  "productName": "string",
  "bomSlotID": 0,
  "qty": 0,
  "bomVersion": "string"
}
```

## Sample Response

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

```
{
  "parentSerialNo": "ABC123",
  "childSerialNo": "DEF456",
  "productName": "Product 1",
  "bomSlotID": 12345,
  "qty": 5,
  "bomVersion": "1.0"
}
```

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