

Material Item

23/10/2025 11:22 am BST

Material Item

Tags: API

Versions

Versions this documentation is relevant for:

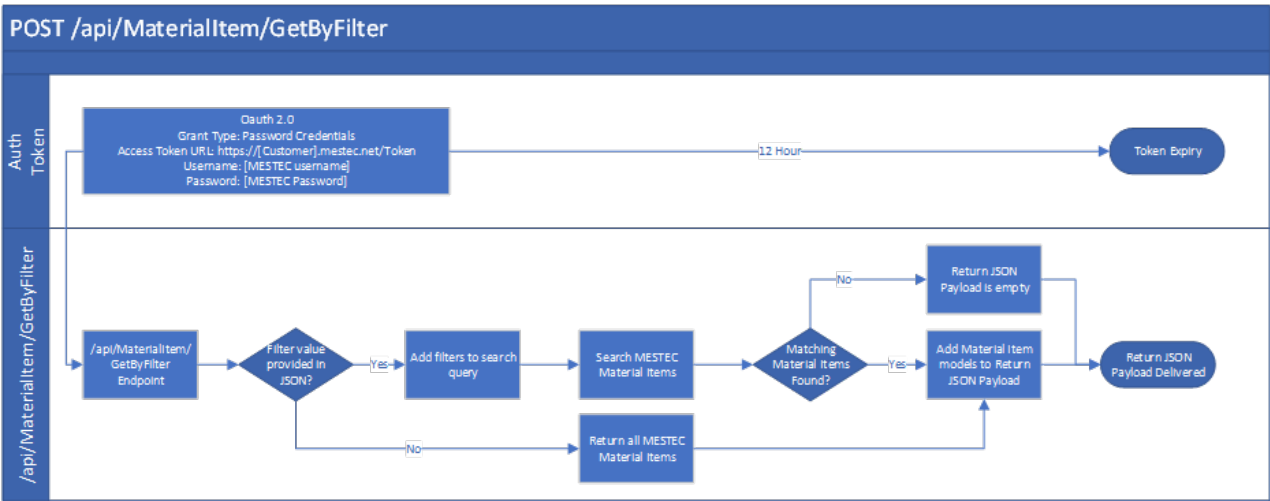
- 8.7.0+

Material Items are the stock items held in Eyelit MES-M.

GetByFilter

This Endpoint is used to retrieve information related to material items from Eyelit MES-M. Using the MaterialItem -GetByFilter API call has no impact on the data within the given Eyelit MES-M application, it is read-only.

Figure 1 - Logic within MaterialItem -GetByFilter 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 Material Items. 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 Material Items.

Table 1 - Outbound Message Detail for MaterialItem – GetByfilter

Method	URL Structure	Endpoint
POST	https://[environment].mestec.net	/api/MaterialItem/GetByFilter

The body of the payload should follow the format below.

JSON Structure for MaterialItem-GetByFilter

```
{  
  "id": 0,  
  "orderNo": "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 MaterialItem-GetByFilter

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
ID	materialitem.id	NUMBER	Yes*	N/A	Exact
orderNo	schedule.orderno	VARCHAR2(250 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.

*GetByFilter requires a parameter and cannot be blank. The Material Item ID is required when getting the information for a specific Material Item. The orderNo is required when filtering by the Schedule Works Order and will return all items for that Works Order. One or the other must be supplied.

Sample Request

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

To list a single Material Item:

JSON Sample for MaterialItem -GetByFilter Request A

```
{  
  "id": 519210  
}
```

To list Material Items linked to a Works Order:

JSON Sample for MaterialItem- GetByFilter Request B

```
{  
  "orderNo": "W01234"  
}
```

Response

When using the MaterialItem - GetByFilter 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 MaterialItem -GetByFilter

```
[
  {
    "ID": 0,
    "RevNo": 0,
    "LastEditDT": "2024-07-25T13:01:13.59687",
    "LastEditUserID": 0,
    "ProductID": 0,
    "StatusID": 0,
    "VisualSerialNo": "string",
    "ScheduleID": 0,
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": "2024-07-25T12:53:43.21259",
    "Version": "string",
    "NominalQty": 0.0,
    "ActualQty": 0.0,
    "UniqueID": "string",
    "HoldReasonID": 0,
    "ExpiryDate": "2024-07-25T12:53:43.21259",
    "LocationID": 0,
    "CostPerUnit": 0.0,
    "OwnershipTypeID": 0,
    "CurrencyID": 0,
    "BatchNo": "string",
    "LegacyPrerepairMaterialItemID": 0,
    "CaseData": [
      {
        "ID": 0,
        "CaseDataID": 0,
        "MaterialItemID": 0,
        "Name": "string",
        "Value": "string"
      }
    ],
    "TestModeID": 0
  }
]
```

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 MaterialItem -GetByFilter Response A

```
[ ]
```

The response contains empty square brackets.

Material Item found that matched given parameters:

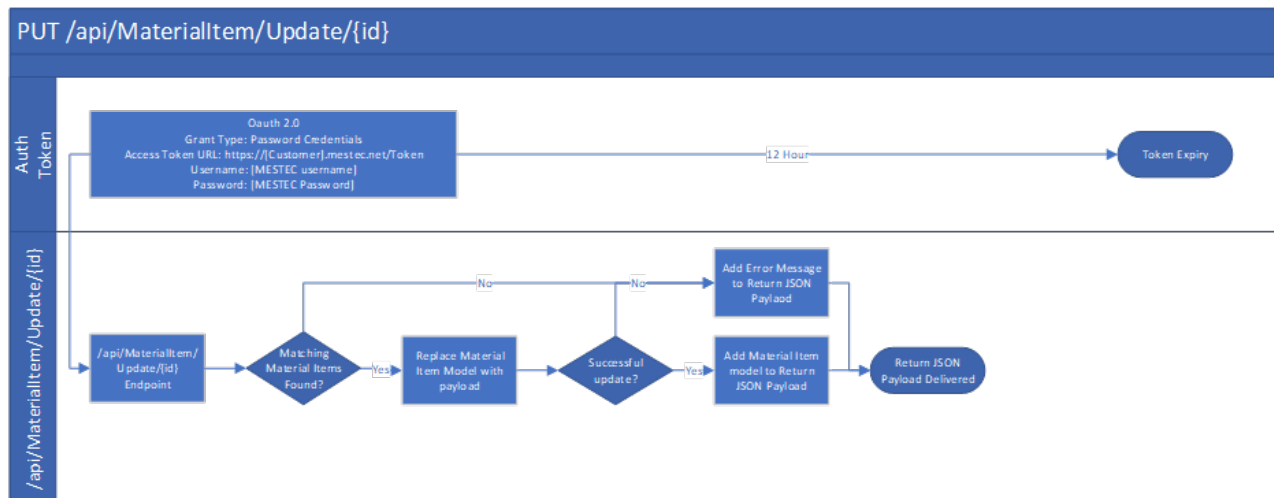
JSON Sample for MaterialItem-GetByFilter Response B

```
[
  {
    "ID": 519210,
    "RevNo": 3,
    "LastEditDT": "2024-07-25T13:01:13.59687",
    "LastEditUserID": 1397,
    "ProductID": 7279,
    "StatusID": -3,
    "VisualSerialNo": "23449_1",
    "ScheduleID": null,
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": null,
    "Version": "1",
    "NominalQty": 1.0,
    "ActualQty": 0.0,
    "UniqueID": "23449_1-0",
    "HoldReasonID": null,
    "ExpiryDate": null,
    "LocationID": 588,
    "CostPerUnit": 0.0,
    "OwnershipTypeID": 1,
    "CurrencyID": 1,
    "BatchNo": "",
    "LegacyPrerepairMaterialItemID": null,
    "CaseData": [
      {
        "ID": 13781682,
        "CaseDataID": 18170,
        "MaterialItemID": 519210,
        "Name": "ADat1",
        "Value": ""
      }
    ],
    "TestModeID": -1
  }
]
```

Update

This endpoint allows for the update of an existing material item within Eyelit MES-M.

Figure 2 - Logic within MaterialItem-Update/{id} API Call



Data Prerequisites

The material item being updated must exist in Eyelit MES-M, this transaction is not capable of creating an item.

Request

Table 3 shows the method and endpoint required to make the API call to Update a Material Item. Note that this transaction requires the ID of the material item to be included in the endpoint URL.

Table 3 - Outbound Message Detail for Material Item - Update /{id}

Method	URL Structure	Endpoint
PUT	https://[environment].mestec.net	/api/MaterialItem/Update/{id}

The body of the payload should follow the format below.

```
{
  "id": 0,
  "revNo": 0,
  "lastEditDT": "2024-08-06T09:55:21.524Z",
  "lastEditUserID": 0,
  "productID": 0,
  "statusID": 0,
  "visualSerialNo": "string",
  "scheduleID": 0,
  "startDT": "2024-08-06T09:55:21.524Z",
  "endDT": "2024-08-06T09:55:21.524Z",
  "version": "string",
  "nominalQty": 0,
  "actualQty": 0,
  "uniqueID": "string",
  "holdReasonID": 0,
  "expiryDate": "2024-08-06T09:55:21.524Z",
  "locationID": 0,
  "costPerUnit": 0,
  "ownershipTypeID": 0,
  "currencyID": 0,
  "batchNo": "string",
  "legacyPrerepairMaterialItemID": 0,
  "caseData": [
    {
      "id": 0,
      "caseDataID": 0,
      "materialItemID": 0,
      "name": "string",
      "value": {}
    }
  ],
  "testModeID": 0
}
```

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 Material Item – Update /{id}

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
Id	materialItem.id	NUMBER(10,0)	Yes	N/A	Exact
revNo	materialItem.revNo	NUMBER	Yes	N/A	N/A
lastEditDT	materialItem.lastEditDT	TIMESTAMP(6)	Yes	N/A	N/A
lastEditUserID	materialItem.lastEditUserID	NUMBER(10,0)	Yes	N/A	Exact
productID	materialItem.productID	NUMBER(10,0)	Yes	N/A	Exact
statusID	materialItem.statusID	NUMBER(10,0)	Yes	N/A	Exact

visualSerialNo	materialItem.visualSerialNo	VARCHAR2(100)	Yes	N/A	N/A
scheduleID	materialItem.scheduleID	NUMBER(10,0)	Yes	N/A	Exact
startDT	materialItem.startDT	TIMESTAMP(6)	Yes	N/A	N/A
endDT	materialItem.endDT	TIMESTAMP(6)	Yes	N/A	N/A
version	materialItem.version	VARCHAR2(50)	Yes	N/A	N/A
nominalQty	materialItem.nominalQty	FLOAT(93)	Yes	N/A	N/A
actualQty	materialItem.actualQty	FLOAT(93)	Yes	N/A	N/A
uniqueID	materialItem.uniqueID	VARCHAR2(100)	Yes	N/A	N/A
holdReasonID	materialItem.holdReasonID	NUMBER(10,0)	Yes	N/A	Exact
expiryDate	materialItem.expiryDate	TIMESTAMP(6)	Yes	N/A	N/A
locationID	materialItem.locationID	NUMBER(10,0)	Yes	N/A	Exact
costPerUnit	materialItem.costPerUnit	FLOAT(93)	Yes	N/A	N/A
ownershipTypeID	materialItem.ownershipTypeID	NUMBER(10,0)	Yes	N/A	Exact
currencyID	materialItem.currencyID	NUMBER(10,0)	Yes	N/A	Exact
batchNo	materialItem.batchNo	VARCHAR2(50)	Yes	N/A	N/A
legacyPrerepairMaterialItemID	materialItem. legacyPrerepairMaterialItemID	NUMBER(10,0)	Yes	N/A	Exact
caseData	JSON Array	N/A	Yes	N/A	N/A
id	caseDataItem.id	NUMBER(10,0)	Yes	N/A	Exact
caseDataID	caseDataItem.caseDataID	NUMBER(10,0)	Yes	N/A	Exact
materialItemID	caseDataItem.materialItemID	NUMBER(10,0)	Yes	N/A	Exact
name	caseData.name	VARCHAR2(50)	Yes	No	Exact
value	caseDataItem.value	VARCHAR2(2000)	Yes	N/A	N/A
testModelID	materialItem.testModelID	NUMBER(10,0)	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.

Please not that this endpoint requires all fields to be passed in for an update.

The recommended approach is to use the `getbyfilter` transaction to return the structure for the item that needs to be updated, then pass the full structure into the update transaction with the required data modifications.

To update.

```
{
  "ID": 494223,
  "RevNo": 11,
  "LastEditDT": "2018-12-20T15:48:23.860813",
  "LastEditUserID": 515,
  "ProductID": 6989,
  "StatusID": -1,
  "VisualSerialNo": "PHTEST001",
  "ScheduleID": null,
  "StartDT": "2018-11-06T10:21:08",
  "EndDT": "2018-12-20T15:48:23",
  "Version": "1",
  "NominalQty": 100.0,
  "ActualQty": 1.0,
  "UniqueID": "PHTEST001",
  "HoldReasonID": null,
  "ExpiryDate": "2018-12-20T00:00:00",
  "LocationID": 1,
  "CostPerUnit": 0.0,
  "OwnershipTypeID": 1,
  "CurrencyID": 3,
  "BatchNo": "API Test",
  "LegacyPrerepairMaterialItemID": null,
  "CaseData": [
    {
      "ID": 13760466,
      "CaseDataID": 16483,
      "MaterialItemID": 494223,
      "Name": "Copies",
      "Value": "10"
    },
    {
      "ID": 13761079,
      "CaseDataID": 16602,
      "MaterialItemID": 494223,
      "Name": "value test",
      "Value": ""
    },
    {
      "ID": 13761084,
      "CaseDataID": 16442,
      "MaterialItemID": 494223,
      "Name": "Signature",
      "Value": ""
    }
  ],
  "TestModeID": -1
}
```

Response

When using the Material Item-Update/{id} API call, if a material item has been updated a JSON payload will be returned containing data in the following structure:

```
{
  "id": 0,
  "revNo": 0,
  "lastEditDT": "2024-08-06T09:55:21.524Z",
  "lastEditUserID": 0,
  "productID": 0,
  "statusID": 0,
  "visualSerialNo": "string",
  "scheduleID": 0,
  "startDT": "2024-08-06T09:55:21.524Z",
  "endDT": "2024-08-06T09:55:21.524Z",
  "version": "string",
  "nominalQty": 0,
  "actualQty": 0,
  "uniqueID": "string",
  "holdReasonID": 0,
  "expiryDate": "2024-08-06T09:55:21.524Z",
  "locationID": 0,
  "costPerUnit": 0,
  "ownershipTypeID": 0,
  "currencyID": 0,
  "batchNo": "string",
  "legacyPrerepairMaterialItemID": 0,
  "caseData": [
    {
      "id": 0,
      "caseDataID": 0,
      "materialItemID": 0,
      "name": "string",
      "value": {}
    }
  ],
  "testModeID": 0
}
```

Sample Response

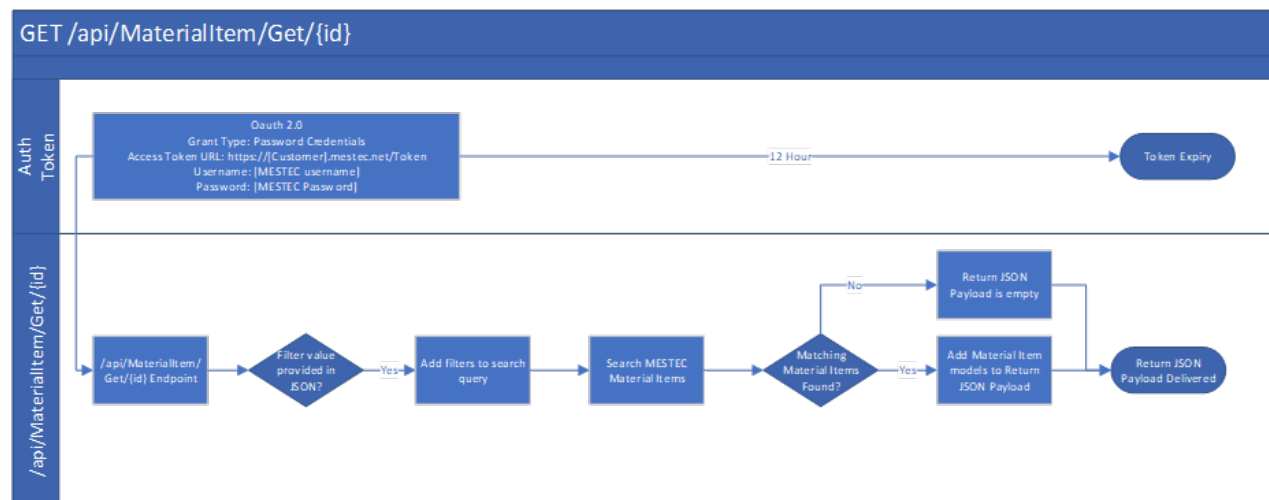
See below for sample use cases with examples of the JSON payload format returned.

```
{
  "ID": 494223,
  "RevNo": 13,
  "LastEditDT": "2024-08-06T11:02:00.692971",
  "LastEditUserID": 1635,
  "ProductID": 6989,
  "StatusID": -1,
  "VisualSerialNo": "PHTEST001",
  "ScheduleID": null,
  "StartDT": "2018-11-06T10:21:08",
  "EndDT": "2018-12-20T15:48:23",
  "Version": "1",
  "NominalQty": 100.0,
  "ActualQty": 1.0,
  "UniqueID": "PHTEST001",
  "HoldReasonID": null,
  "ExpiryDate": "2018-12-20T00:00:00",
  "LocationID": 1,
  "CostPerUnit": 0.0,
  "OwnershipTypeID": 1,
  "CurrencyID": 3,
  "BatchNo": "API Test",
  "LegacyPrerepairMaterialItemID": null,
  "CaseData": [
    {
      "ID": 13760466,
      "CaseDataID": 16483,
      "MaterialItemID": 494223,
      "Name": "Copies",
      "Value": "10"
    },
    {
      "ID": 13761079,
      "CaseDataID": 16602,
      "MaterialItemID": 494223,
      "Name": "value test",
      "Value": "0"
    },
    {
      "ID": 13761084,
      "CaseDataID": 16442,
      "MaterialItemID": 494223,
      "Name": "Signature",
      "Value": ""
    }
  ],
  "TestModeID": -1
}
```

Get/{id}

This Endpoint is used to retrieve information related to material items from Eyelit MES-M. Using the MaterialItem -Get/{id} API call has no impact on the data within the given Eyelit MES-M application, it is read-only.

Figure 3 - Logic within MaterialItem -Get/{id} API Call



Data Pre-Requisites

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

Request

Table 5 - Outbound Message Detail for MaterialItem – Get/{id} shows the method and endpoint required to make the API call to list Material Items. Note that this transaction required the ID of the material item to be included in the endpoint URL

Table 5 - Outbound Message Detail for MaterialItem – Get/{id}

Method	URL Structure	Endpoint
GET	https://[environment].mestec.net	/api/MaterialItem/Get/{id}

Response

When using the MaterialItem – Get/{id} API call, if any data has been found in Eyelit MES-M that meets the id values passed in the original payload, a JSON payload will be returned containing data in the following structure:

JSON Structure for MaterialItem -Get/{id}

```
[
  {
    "ID": 0,
    "RevNo": 0,
    "LastEditDT": "2024-07-25T13:01:13.59687",
    "LastEditUserID": 0,
    "ProductID": 0,
    "StatusID": 0,
    "VisualSerialNo": "string",
    "ScheduleID": 0,
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": "2024-07-25T12:53:43.21259",
    "Version": "string",
    "NominalQty": 0.0,
    "ActualQty": 0.0,
    "UniqueID": "string",
    "HoldReasonID": 0,
    "ExpiryDate": "2024-07-25T12:53:43.21259",
    "LocationID": 0,
    "CostPerUnit": 0.0,
    "OwnershipTypeID": 0,
    "CurrencyID": 0,
    "BatchNo": "string",
    "LegacyPrerepairMaterialItemID": 0,
    "CaseData": [
      {
        "ID": 0,
        "CaseDataID": 0,
        "MaterialItemID": 0,
        "Name": "string",
        "Value": "string"
      }
    ],
    "TestModeID": 0
  }
]
```

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 MaterialItem -Get/{id}

```
[ ]
```

The response contains empty square brackets

Material Item found that matched given id:

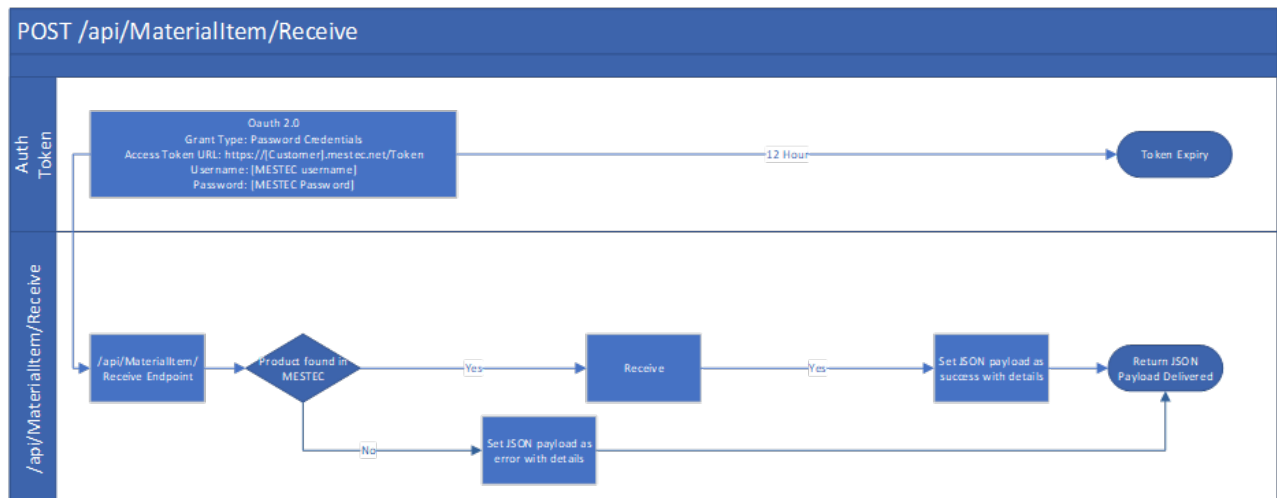
JSON Sample for MaterialItem-Get/{id} Response

```
[
  {
    "ID": 519210,
    "RevNo": 3,
    "LastEditDT": "2024-07-25T13:01:13.59687",
    "LastEditUserID": 1397,
    "ProductID": 7279,
    "StatusID": -3,
    "VisualSerialNo": "23449_1",
    "ScheduleID": null,
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": null,
    "Version": "1",
    "NominalQty": 1.0,
    "ActualQty": 0.0,
    "UniqueID": "23449_1-0",
    "HoldReasonID": null,
    "ExpiryDate": null,
    "LocationID": 588,
    "CostPerUnit": 0.0,
    "OwnershipTypeID": 1,
    "CurrencyID": 1,
    "BatchNo": "",
    "LegacyPrerepairMaterialItemID": null,
    "CaseData": [
      {
        "ID": 13781682,
        "CaseDataID": 18170,
        "MaterialItemID": 519210,
        "Name": "ADatal",
        "Value": ""
      }
    ],
    "TestModeID": -1
  }
]
```

Receive

This Endpoint is used to receive a new material item into the stock .

Figure 4 - Logic within MaterialItem -Receive API Call



Data Prerequisites

A receive transaction in Eyelit MES-M is performed against a Product. The product name must be included in the payload. This means that a product must be available in Eyelit MES-M before the Material received.

Request

Table 6 shows the method and endpoint required to make the API call to receive material.

Table 6 - Outbound Message Detail for MaterialItem –Receive

Method	URL Structure	Endpoint
POST	https://[environment].mestec.net	/api/MaterialItem/Receive

The body of the payload should follow the format below.

JSON Structure for MaterialItem-Receive

```
{
  "productName": "string",
  "visualSerialNo": "string",
  "uniqueID": "string",
  "expiryDate": "2024-07-09T20:47:22.296Z",
  "version": "string",
  "location": "string",
  "batchNo": "string",
  "costPerUnit":0,
  "qty":0,
  "ownershipType": "string",
  "comment": "string",
  "deliveryNo": "string"
}
```

See Table 7 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 7 - Parameter Information for MaterialItem/Receive

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
productName	Product.name	VARCHAR2(50)	Yes	No	Exact
visualSerialNo	materialitem.visualserialno	VARCHAR2(250 BYTE)	Yes	No	Exact
expiryDate	materialitem.expirydate	VARCHAR2(100 BYTE)	No	No	Exact
version	materialitem.version	VARCHAR2(100 BYTE)	No	No	Exact
location	location.suid	VARCHAR2(200 BYTE)	No	N/A	N/A
batchNo	materialitem. batchno	VARCHAR2(50 BYTE)	No	N/A	
costPerUnit	materialitem.costperunit		No	N/A	
qty	Materialitem.nominalqty	FLOAT	Yes	N/A	
ownershipType	Ownershiptype.name	VARCHAR2(250 BYTE)	No	No	Exact
comment			No	N/A	
deliveryNo			No	N/A	

Sample Request

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

To receive Material Item:

```
{
  "productName": "Product_1",
  "visualSerialNo": "Product_1234",
  "uniqueID": "Product_1234",
  "expiryDate": "2024-07-09T20:47:22.296Z",
  "version": "1.0",
  "location": "3A-1",
  "batchNo": "Batch-001",
  "costPerUnit": 0,
  "qty": 5,
  "ownershipType": "Internal Owned",
  "comment": "Receive Stock",
  "deliveryNo": "DL-001"
}
```

Response

When using the MaterialItem – Receive API call, material item stock is created, a JSON payload will be returned containing data in the following structure:

JSON Structure for MaterialItem -Receive

```
[
  {
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": "2024-07-25T12:53:43.21259",
    "ExpiryDate": "2024-07-25T12:53:43.21259",
    "ID": 0,
    "Product": "string",
    "Status": 0,
    "VisualSerialNo": "string",
    "Version": "string",
    "NominalQty": 0,
    "ActualQty": 0,
    "Location": "string",
    "CostPerUnit": 0
    "CurrencyName": "string"
  }
]
```

Sample Response

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

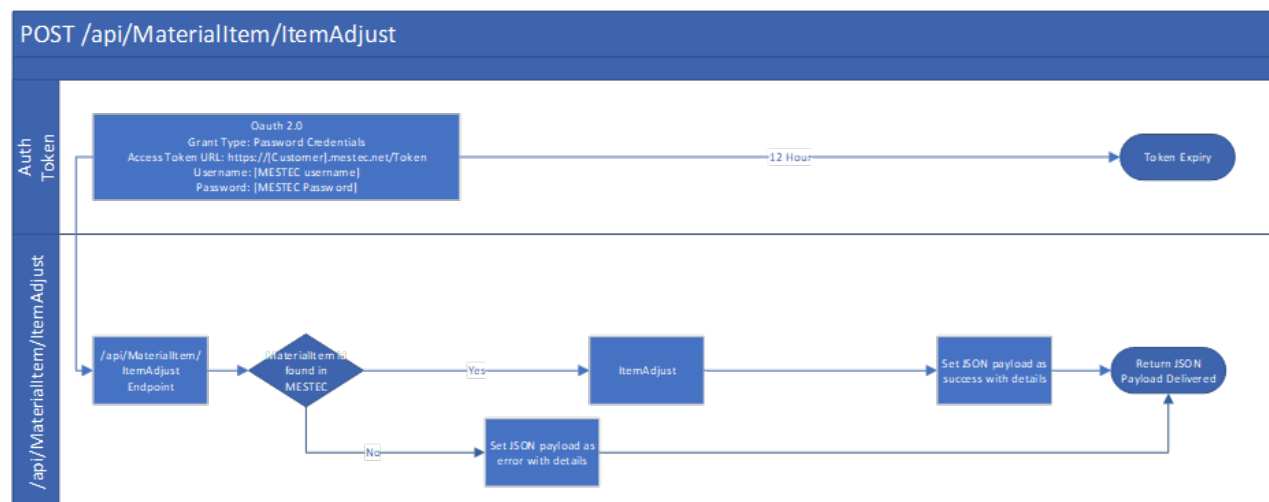
JSON Sample for MaterialItem-Receive

```
[
  {
    "StartDT": "2025-06-10T11:52:09.637026Z",
    "EndDT": "2025-06-10T11:52:09.637026Z",
    "ID": 525659,
    "Product": "Product_1",
    "Status": -1,
    "VisualSerialNo": "Product1234",
    "Version": "1",
    "NominalQty": 1,
    "ActualQty": 5,
    "Location": "3A-1",
    "CostPerUnit": 0
    "CurrencyName": "British Pounds"
  }
]
```

ItemAdjust

This Endpoint is used to adjust the quantity of an existing material item.

Figure 5 - Logic within MaterialItem -ItemAdjust API Call



Data Prerequisites

A ItemAdjust transaction in Eyelit MES-M is performed against a MaterialItemid. The MaterialItem id must be included in the payload. This means that a Material item must be available in Eyelit MES-M before the item adjust.

Request

Table 8 - Outbound Message Detail for MaterialItem –ItemAdjust shows the method and endpoint required to make the API call to receive material.

Table 8 - Outbound Message Detail for MaterialItem –ItemAdjust

Method	URL Structure	Endpoint
POST	https://[environment].mestec.net	/api/MaterialItem/ItemAdjust

The body of the payload should follow the format below.

JSON Structure for MaterialItem-ItemAdjust

```
{
  "materialItemID": 0,
  "adjustQty": 0,
  "reasonSUID": "string",
  "comments": "string"
}
```

See Table 9 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Table 9 - Parameter Information for MaterialItem/ItemAdjust

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
materialitemid	Materialitem.id	NUMBER(10,0)	Yes	No	Exact
adjustqty	Materialitem.actualqty	Number	Yes	N/A	
reasonSUID	Materialreason. materialreasonsuid	VARCHAR2(50 BYTE)	Yes	No	Exact
comments			No	No	

Sample Request

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

To adjust Material Item:

```
{
  "materialItemID": 523523,
  "adjustQty": 5,
  "reasonSUID": "Stock Adjust",
  "comments": " Stock Adjust "
}
```

Response

When using the MaterialItem – Item Adjust API call, material item quantity is adjusted, a JSON payload will be returned containing data in the following structure:

JSON Structure for MaterialItem -ItemAdjust

```
[
  {
    "StartDT": "2024-07-25T12:53:43.21259",
    "EndDT": "2024-07-25T12:53:43.21259",
    "ID": 0,
    "Product": "string",
    "Status": 0,
    "VisualSerialNo": "string",
    "Version": "string",
    "NominalQty": 0,
    "ActualQty": 0,
    "Location": "string",
    "CostPerUnit": 0,
    "CurrencyName": "string"
  }
]
```

Sample Response

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

JSON Sample for MaterialItem-ItemAdjust

```
[
  {
    "StartDT": "2025-06-10T11:52:09.637026Z",
    "EndDT": "2025-06-10T11:52:09.637026Z",
    "ID": 523523,
    "Product": "Product_1",
    "Status": -1,
    "VisualSerialNo": "Product1234",
    "Version": "1",
    "NominalQty": 1,
    "ActualQty": 4,
    "Location": "3A-1",
    "CostPerUnit": 0
    "CurrencyName": "British Pounds"
  }
]
```
