

Tool Tags: API

#### Versions

Versions this documentation is relevant for: • 8.7.0+

A tool is a piece of equipment used to aid in the manufacturing process. Tools could be things such as hammers and spanners or things such as jigs.

# Upsert

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

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

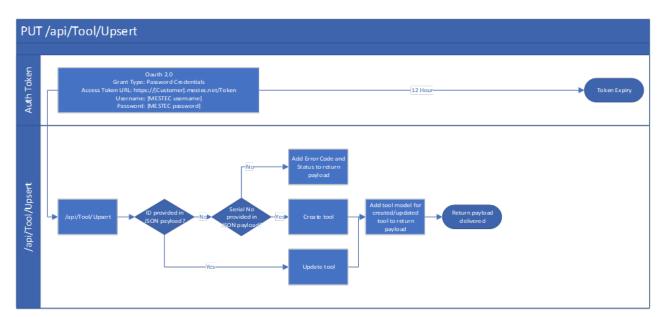


Figure 1 - Logic within Tool/Upsert API Call

## **Data Prerequisites**

There is no data required in Eyelit MES-M to act as a pre-requisite to make the API call to upsert tools. If parameters are passed in through the body that return no valid results a new tool will be created, otherwise the tool identified will be updated.

## Request

#### Table 1 shows the method and endpoint required to make the API call to upsert tools.

Table 1 - Outbound Message Detail for Tool - Upsert

N	lethod	URL Structure	Endpoint		
P	UT	https://[environment].mestec.net	/api/Tool/Upsert		

The body of the payload should follow the format below.

```
JSON Structure for Tool Upsert
```

```
Ł
  "id": 0,
  "serialNo": "string",
  "toolType": "string",
  "status": "string",
  "location": "string",
  "approvalStatus": "string",
  "calibrationDT": "2025-06-06T08:25:03.047Z",
  "suid": "string",
  "properties": [
    £
      "name": "string",
      "value": "string"
    }
  ]
}
```

See Table 2 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Parameter Name	Data Manning	Data Type	Mandatory		Case Sensitive	Match Type
		butu type	inditidationy			naten type
			Create	Update		
id	TOOL.ID	Integer	No	Yes	N/A	Exact
serialNo	TOOL.SERIALNO	String	Yes	No	N/A	N/A
toolType	TOOLTYPE.NAME	String	Yes	No	N/A	Exact
status	TOOLSTATUS.NAME	String	Yes	No	N/A	Exact
location	LOCATION.NAME	String	Yes	No	N/A	Exact
approvalStatus	TOOLAPPROVALSTATUS.NAME	String	Yes	No	N/A	Exact
calibrationDT	TOOL.CALIRATIONDT	DateTime	No	No	N/A	N/A
suid	TOOL.SUID	String	No	No	N/A	N/A
properties	N/A	JSON Array	No	No	N/A	N/A

Table 2 - Parameter Information for Tool - Upsert

properties\name	TABLEPROPERTYDEFINITION.NAME	String	No	No	N/A	Exact
properties\value	TOOLPROP.VALUE	String	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 tool:

JSON Sample for Tool Upsert to create a new tool

To update a tool's status, location, and approval status:

JSON Sample for Tool Upsert to update a tool

```
{
    "id": 12345,
    "status": "Decommisioned",
    "location": "Storage Unit A",
    "approvalStatus": "Unapproved"
}
```

### Response

When using the Tool - Upsert API call, a JSON payload will be returned containing data in the following structure:

JSON Structure for Tool Upsert

```
ş
 "id": 0,
 "serialNo": "string",
 "toolType": "string",
 "status": "string",
 "location": "string",
 "approvalStatus": "string",
 "calibrationDT": "2025-06-06T14:46:05.970Z",
  "suid": "string",
 "properties": [
   £
      "name": "string",
      "value": "string"
   }
 1
}
```

#### Sample Response

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

#### JSON Sample for Tool Upsert

```
Ł
 "id": 12345,
  "serialNo": "S12345",
  "toolType": "Spanner",
  "status": "Available",
  "location": "Storage",
 "approvalStatus": "Approved",
  "calibrationDT": "2025-06-10T10:30:44.771Z",
  "suid": "S12345",
  "properties": [
    £
      "name": "Size",
      "value": "2.5mm"
    }
  ]
ł
```

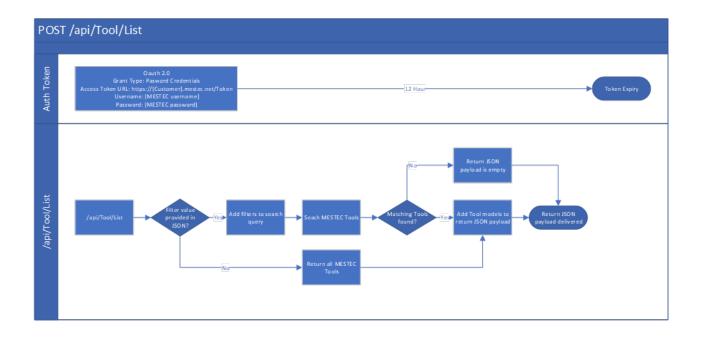
# List

The Tool – List API call reads existing tools 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 tools.

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

Figure 2 shows the logic used within the Tool - List API call.

Figure 2 - Logic within Tool/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 tools. If parameters are passed in through the body that return no valid results, an empty payload will be returned.

## Request

Table 3 shows the method and endpoint required to make the API call to list tools.

Table 3 - Outbound Message Detail for Tool- List				
Method	URL Structure	Endpoint		
		-		

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

The body of the payload should follow the format below.

JSON Structure for Tool Upsert

```
{
    "id": 0,
    "serialNo": "string"
}
```

See Table 4 for information on which fields are optional, the appropriate data types and the mappings to fields in Eyelit MES-M.

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
id	TOOL.ID	Integer	No	N/A	Exact
serialNo	TOOL.SERIALNO	String	No	N/A	Exact

Table 4 - Parameter Information for Tool - List

Note: For any fields where the match type is 'Like', a percent symbol should be used as a wild card 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 all tools:

```
JSON Structure for Tool List – list all tools
```

£ }

To list tools where the serial number is "Tool12345":

JSON Structure for Tool List – list a specific tool

```
{
| "serialNo": "Tool12345"
}
```

# Response

When using the Tool - List API call, a JSON payload will be returned containing data in the following structure:

JSON Sample for Tool List

```
E
 Ł
    "id": 0,
    "serialNo": "string",
    "toolType": "string",
    "status": "string",
    "location": "string",
    "approvalStatus": "string",
    "calibrationDT": "2025-06-10T10:30:44.774Z",
    "suid": "string",
    "properties": [
      £
        "name": "string",
        "value": "string"
      }
    ]
  }
]
```

#### Sample Response

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

No results were found that matched the given parameters:

```
[
]
Tool found that matched the given parameters:
```

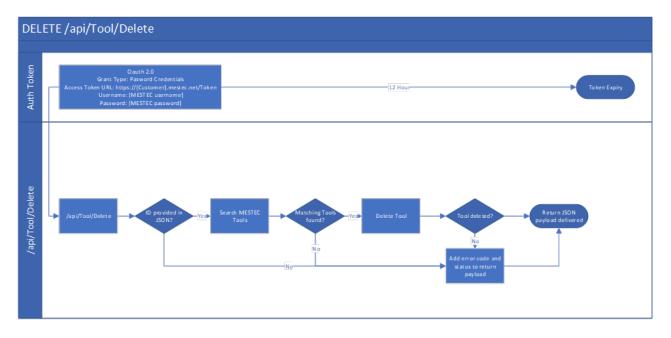
```
[
    {
        "id": 12345,
        "serialNo": "Tool12345",
        "toolType": "Hammer",
        "status": "Available",
        "location": "Hammer Storage",
        "approvalStatus": "Approved",
        "calibrationDT": "2025-06-10T10:30:44.774Z",
        "suid": "T12345"
    }
]
```

# Delete

The Tool – Delete API call attempts to delete a tool. A tool can only be deleted if not referenced against any other entities (e.g., Tool Group).

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

Figure 3 - Logic within Tool/Delete API call



# Prerequisites

In order to delete a tool, the tool must exist in Eyelit MES-M.

The tool has not been used and not been referenced against any other entities.

## Request

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

Table 5 - Outbound Message Detail for Tool - Delete

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

The body of the payload should follow the format below.

JSON Structure for Tool Delete

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 Tool – Delete

Parameter Name	Data Mapping	Data Type	Mandatory	Case Sensitive	Match Type
id	TOOL.ID	Integer	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": 12345
}
```

### Response

When using the Tool – Delete API call, if a tool has been deleted a JSON payload will be returned containing data in the following structure:

£

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