

# Daimler Supplier workshop

Swagger use cases



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# **Daimler Supplier Workshop** - Swagger use cases



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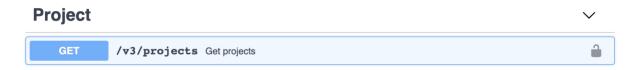
# Exploring project structure

# Finding the Central Issue Inbox project

There are two ways to find a project using the Swagger API. Via listing all available ones or searching using the *keyName* attribute.

### Listing projects

List all available projects using GET /v3/projects.



It will return the references of all visible projects for the authenticated user:

#### **GET /v3/projects**

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GET /v3/projects/{projectId} will provide more detailed information about a specifc project.

GET /v3/projects/{projectId} Get project

### GET /v3/projects/9563

```
"id": 9563,
"name": "Central Issue Inbox",
"description": "Inbox for unassigned issues",
"descriptionFormat": "Wiki",
"version": 2,
"keyName": "CWS",
"closed": false,
"deleted": false,
"template": false,
"createdAt": "2020-08-05T09:03:33.982",
"createdBy": {
    "id": 7284,
    "name": "Zoran.Tomaskovic@intland.com",
    "type": "UserReference"
},
"modifiedAt": "2020-08-05T09:03:35.236",
"modifiedBy": {
    "id": 7284,
    "name": "Zoran.Tomaskovic@intland.com",
    "type": "UserReference"
}
```

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### Searching by keyName

In case you know the *keyName* of the project you can get detailed project information using **POST /v3/projects/search**.

POST

/v3/projects/search Search projects by given criteria



### Request payload:

```
{
  "keyName": "CWS"
}
```

#### Response:

```
"page": 1,
"pageSize": 1,
"total": 1,
"projects": [
    "id": 9563,
    "name": "Central Issue Inbox",
"description": "Inbox for unassigned issues",
"descriptionFormat": "Wiki",
     "version": 2,
     "keyName": "CWS",
    "id": 7284,
"name": "Zoran.Tomaskovic@intland.com",
"type": "UserReference"
     "modifiedAt": "2020-08-05T09:03:35.236",
     "modifiedBy": {
       "id": 7284,
       "name": "Zoran.Tomaskovic@intland.com",
       "type": "UserReference"
  }
]
```

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### Finding the Issues tracker

Once we got hold on the project information we can list the available trackers using **GET /v3/projects/{projectId}/trackers** 



### GET /v3/projects/9563/trackers

For detailed information:

GET /v3/trackers/{trackerId} Get tracker

#### GET /v3/trackers/13245064

```
"id": 13245064,
"name": "Issues",
"description": "Issue to be assigned to a domain for bugfixing", "descriptionFormat": "Wiki",
"keyName": "ISSUE",
"version": 1,
"createdAt": "2020-08-05T09:03:34.102",
"createdBy": {
  "id": 7284,
  "name": "Zoran.Tomaskovic@intland.com",
  "type": "UserReference"
},
"type": {
  "id": 2,
"name": "Bug",
"type": "TrackerTypeReference"
"deleted": false,
"hidden": false,
"color": "#ffbc6b",
"usingWorkflow": true,
"onlyWorkflowCanCreateNewReferringItem": true,
"usingQuickTransitions": true,
"defaultShowAncestorItems": false,
"defaultShowDescendantItems": false,
"project": {
  "id": 9563,
  "name": "Central Issue Inbox",
  "type": "ProjectReference"
"availableAsTemplate": false
```

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### Extracting the Issues tracker schema

In order to be able to create an item we need to find out what kind of fields are configured in the Issues tracker.

We can get the field references using **GET /v3/trackers/{trackerId}/fields** and the complete tracker schema using **GET /v3/trackers/{trackerId}/schema**.

The **/fields** endpoint will provide an overview listing only *FieldReferences*.

#### GET /v3/trackers/13245064/fields

```
"id": 0,
"name": "ID",
     "type": "FieldReference",
     "trackerId": 13245064
     "id": 1,
"name": "Tracker",
"type": "FieldReference",
     "trackerId": 13245064
  },
     "id": 2,
     "name": "Priority",
"type": "FieldReference",
     "trackerId": 13245064
  },
     "id": 3,
"name": "Title",
"type": "FieldReference",
     "trackerId": 13245064
  },
  {
     "id": 7,
     "name": "Status",
"type": "FieldReference",
     "trackerId": 13245064
  },
     "id": 1006,
     "name": "Occurrence",
"type": "FieldReference",
     "trackerId": 13245064
  },
     "id": 1038,
     "name": "Sync Allowed",
"type": "FieldReference",
     "trackerId": 13245064
  },
  . . .
]
```

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The /schema endpoint will provide detailed information about every field configured.

#### GET /v3/trackers/13245064/schema

```
{
  "id": 0,
  "name": "ID",
"type": "IntegerField",
  "hidden": false,
  "valueModel": "IntegerFieldValue",
  "mandatoryInStatuses": []
},
  "type": "TextField",
"hidden": false,
  "valueModel": "TextFieldValue",
  "mandatoryInStatuses": [
       "id": 0,
"name": "Unset",
       "type": "ChoiceOptionReference"
     {
      "id": 3,
"name": "New / Unassigned",
"type": "ChoiceOptionReference"
     },
       "id": 5,
"name": "In Verification",
       "type": "ChoiceOptionReference"
     {
       "id": 7,
"name": "Closed",
"type": "ChoiceOptionReference"
       "id": 8,
"name": "Open In Domain",
"type": "ChoiceOptionReference"
   "trackerItemField": "name"
},
```

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```
{
  "id": 7,
"name": "Status",
  "description": "Current status of the issue", "type": "OptionChoiceField",
  "hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
   "mandatoryInStatuses": [],
   "multipleValues": false,
   "options": [
        "id": 0,
"name": "Unset",
"type": "ChoiceOptionReference"
        "id": 3,
"name": "New / Unassigned",
"type": "ChoiceOptionReference"
        "id": 5,
"name": "In Verification",
"ChoiceOptionRefer
        "type": "ChoiceOptionReference"
     },
        "id": 7,
"name": "Closed",
"type": "ChoiceOptionReference"
     },
        "id": 8,
"name": "Open In Domain",
        "type": "ChoiceOptionReference"
     }
  "trackerItemField": "status",
  "referenceType": "ChoiceOptionReference"
},
```

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# Creating a tracker item

To create a tracker item we can use the POST /v3/trackers/{trackerId}/items endpoint.



### The hard way

In order to understand how the system works we need to construct the request body ourselves. This way we will learn how the fields are provided, what information helps us to create our *TrackerItem* model.

For first we need to find the mandatory fields in our target state. Looking through the tracker schema we can find which fields are mandatory in "New / Unassigned" status.

For example the *Title* field has the "New / Unassigned" set in *mandatoryInStatuses*:

```
"id": 3,
"name": "Title"
"description": "Short description of the defect",
"type": "TextField",
"hidden": false,
"valueModel": "TextFieldValue",
"mandatoryInStatuses": [
     "id": 0,
     "name": "Unset",
"type": "ChoiceOptionReference"
  },
  {
     "id": 3,
"name": "New / Unassigned",
     "type": "ChoiceOptionReference"
  },
     "id": 5,
"name": "In Verification",
"type": "ChoiceOptionReference"
     "id": 7,
"name": "Closed",
     "type": "ChoiceOptionReference"
     "id": 8,
"name": "Open In Domain",
     "type": "ChoiceOptionReference"
"trackerItemField": "name"
```

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So there are 10 mandatory fields:

```
"id": 3,
"name": "Title",
"type": "FieldReference",
     "trackerId": 13245064
    "id": 14,
"name": "Severity",
"type": "FieldReference",
     "trackerId": 13245064
  },
    "id": 80,
"name": "Description",
"type": "FieldReference",
     "trackerId": 13245064
    "id": 1006,
    "name": "Occurrence",
     "type": "FieldReference",
    "trackerId": 13245064
    "id": 1015,
    "name": "Verification By Test Group",
"type": "FieldReference",
     "trackerId": 13245064
    "id": 1020,
    "name": "Send To Domain",
     "type": "FieldReference",
     "trackerId": 13245064
  },
    "id": 1038,
    "name": "Sync Allowed",
"type": "FieldReference",
     "trackerId": 13245064
    "id": 10001,
    "name": "Detected On Date",
"type": "FieldReference",
     "trackerId": 13245064
    "id": 10020,
    "name": "Test Setup",
     "type": "FieldReference",
     "trackerId": 13245064
    "id": 10022,
    "name": "Test Environment",
"type": "FieldReference",
    "trackerId": 13245064
1
```

These fields needs to be set on *TrackerItem* model.

To get to know more about the *TrackerItem* model read our <u>TrackerItem model structure</u> article.

Here will only cover the setting of the mandatory fields.

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#### Title

Field schema:

There are three important properties:

- id: the identifier of the field
- valueModel: the model which needs to be created in order to set value on a field
- *trackerItemField*: If there is an explicitly defined attribute in the *TrackerItem* model, the attribute name is listed here.

As the "Title" field has *trackerItemField* attribute we can set it pretty easily on the *TrackerItem* model.

```
{
  "name": "Training issue",
}
```

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### Severity

Field schema:

```
"id": 14,
     "name": "Severity",
     "description": "VoCA (Voice of Customer Audit) - " customer-relevance" of
the Issue",
    "type": "OptionChoiceField",
     "hidden": false,
     "valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
     "mandatoryInStatuses": [ ... ],
     "multipleValues": false,
     "options": [
       {
          "id": 0,
"name": "Unset",
          "type": "ChoiceOptionReference"
       },
          "id": 1,
"name": "VoCA Prio 1",
"type": "ChoiceOptionReference"
       },
          "id": 2,
"name": "VoCA Prio 2",
"type": "ChoiceOptionReference"
          "id": 3,
          "name": "VoCA Prio 3",
"type": "ChoiceOptionReference"
          "id": 4,
"name": "VoCA Prio 4",
"type": "ChoiceOptionReference"
          "id": 7,
"name": "Not Applicable",
"type": "ChoiceOptionReference"
       }
     "trackerItemField": "severities",
     "referenceType": "ChoiceOptionReference"
```

It has a trackerItemField as "severities" which will accept a list of ChoiceOptionReference based on the documentation on the swagger UI: CB:/V3/swagger/editor.spr

For more details checkout the <u>Finding which model needs to be used in an explicitly defined field</u> section.

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As the **Severity** field is a choice option field all the available options are listed in the field definition from the tracker schema:

Adding the severity to our TrackerItem model:

### Description

Field schema:

```
{
  "id": 80,
  "name": "Description",
  "description": "Detailed Issue Description",
  "type": "WikiTextField",
  "hidden": false,
  "valueModel": "WikiTextFieldValue",
  "mandatoryInStatuses": [ . . . ],
  "trackerItemField": "description"
},
```

The description field on TrackerItem model:

```
description string
Description of the entity
```

Adding the description to our TrackerItem model:

```
{
  "name": "Training issue",
  "description": "Training description",
  "severities": [
      {
         "id": 1,
         "name": "VoCA Prio 1",
         "type": "ChoiceOptionReference"
      }
  ]
}
```

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#### Occurrence

Field schema:

```
"id": 1006,
"name": "Occurrence",
"description": "Frequency Issue occurred during testing",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [ ... ],
"multipleValues": false,
"options": [
    "id": 0,
    "name": "Unset",
"type": "ChoiceOptionReference"
    "id": 1,
"name": "Always",
    "type": "ChoiceOptionReference"
    "id": 2,
"name": "Often",
    "type": "ChoiceOptionReference"
  },
    "id": 3,
"name": "Sometimes",
    "type": "ChoiceOptionReference"
    "id": 4,
"name": "Once",
    "type": "ChoiceOptionReference"
 }
"referenceType": "ChoiceOptionReference"
```

This is the first field where **we don't have** *trackerItemField* defined which means that we need to handle it a *customField*.

In this case the *valueModel* property will help us to set the value:

```
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
```

It tells us that we need to construct a *ChoiceFieldValue* which will contain a *ChoiceOptionReference* as an implementation of *AbstractReference*.

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Let's see the definitions in the Models section:

```
ChoiceFieldValue > {
  description:
                     Reference container of a choice option field
  fieldId
                     integer($int32)
                     Id of the field
                     string
  type*
                     Type of the field
                     string
  name
                     Name of the field
  values
                     Values of the choice option field
                     AbstractReference > {...}
}
ChoiceOptionReference > {
    description:
                            Reference to a choice option
    id
                            integer($int32)
                            minimum: O
                            Id of the entity
                            string
    name
                           Name of the entity
                            string
    type
                           Type of a referenced object
}
```

The type field will always refer to the type of the containing object.

Let's construct our valueModel:

```
{
  "fieldId": 1006,
  "name": "Occurrence",
  "type": "ChoiceFieldValue",
  "values": [ ... ]
},
```

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Adding the **Occurrence** to our *TrackerItem* model with a selected option:

```
"name": "Training issue",
"description": "Training description",
"severities": [
  {
     "id": 1,
"name": "VoCA Prio 1",
"type": "ChoiceOptionReference"
"customFields": [
  {
     "fieldId": 1006,
     "name": "Occurrence",
"type": "ChoiceFieldValue",
     "values": [
       {
          "id": 2,
          "name": "Often",
          "type": "ChoiceOptionReference"
     ]
  }
]
```

### Verification By Test Group

Field schema:

```
"id": 1015,
"name": "Verification By Test Group",
"description": "Defect needs to be verified by a test group before closing",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [ ... ],
"multipleValues": false,
"options": [
  {
    "id": 0,
"name": "Unset",
"type": "ChoiceOptionReference"
  },
  {
    "id": 1,
"name": "Yes",
    "type": "ChoiceOptionReference"
  ١,
    "id": 2,
"name": "No",
    "type": "ChoiceOptionReference"
"referenceType": "ChoiceOptionReference"
```

This field needs the same ChoiceFieldValue<ChoiceOptionReference> model as Occurrence.

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### Adding **Verification By Test Group** to our *TrackerItem* model with a selected option:

```
"name": "Training issue",
  "description": "Training description",
  "severities": [
    {
       "id": 1,
"name": "VoCA Prio 1",
"type": "ChoiceOptionReference"
  ],
"customFields": [
       "fieldId": 1006,
       "name": "Occurrence",
"type": "ChoiceFieldValue",
       "values": [
          {
            "id": 2,
"name": "Often",
"type": "ChoiceOptionReference"
       ]
     },
       "fieldId": 1015,
       "name": "Verification By Test Group",
"type": "ChoiceFieldValue",
        "values": [
             "id": 1,
             "name": "Yes",
"type": "ChoiceOptionReference"
       1
 }
}
```

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#### Send To Domain

Field schema:

```
"id": 1020,
"name": "Send To Domain",
"description": "Indicates that domain Defect needs to be created",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [ ... ],
"multipleValues": false,
"options": [
    "id": 0,
    "name": "Unset",
"type": "ChoiceOptionReference"
    "id": 1,
"name": "No",
    "type": "ChoiceOptionReference"
  },
    "id": 2,
"name": "Yes",
    "type": "ChoiceOptionReference"
 }
"referenceType": "ChoiceOptionReference"
```

This field needs the same ChoiceFieldValue<ChoiceOptionReference> model as Occurrence.

Adding **Send To Domain** to our *TrackerItem* model with a selected option:

```
"name": "Training issue",
"description": "Training description",
"severities": [
    "id": 1,
"name": "VoCA Prio 1",
"type": "ChoiceOptionReference"
  }
1,
"customFields": [
  {
     "fieldId": 1006,
     "name": "Occurrence",
"type": "ChoiceFieldValue",
     "values": [
        {
          "id": 2,
"name": "Often",
"type": "ChoiceOptionReference"
     ]
     "fieldId": 1015,
     "name": "Verification By Test Group",
     "type": "ChoiceFieldValue",
     "values": [
          "id": 1,
"name": "Yes",
"type": "ChoiceOptionReference"
     ]
```

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### Sync Allowed

Field settings:

```
"id": 1038,
"name": "Sync Allowed",
"description": "Allow the issue synchronisation",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"title": "Sync Allowed",
"mandatoryInStatuses": [ ... ],
"multipleValues": false,
"options": [
  -{
    "id": 0,
"name": "Unset",
    "type": "ChoiceOptionReference"
  {
    "id": 1,
    "name": "Supplier External Tool",
    "type": "ChoiceOptionReference"
  },
    "id": 2,
"name": "No",
"type": "ChoiceOptionReference"
    "id": 3,
    "name": "Internal Jira Project",
"type": "ChoiceOptionReference"
 }
"referenceType": "ChoiceOptionReference"
```

This field needs the same ChoiceFieldValue<ChoiceOptionReference> model as Occurrence.

Adding **Sync Allowed** to our *TrackerItem* model with a selected option:

```
"name": "Training issue",
"description": "Training description",
"severities": [
  {
    "id": 1,
     "name": "VoCA Prio 1",
"type": "ChoiceOptionReference"
],
"customFields": [
  {
     "fieldId": 1006,
     "name": "Occurrence",
"type": "ChoiceFieldValue",
     "values": [
       {
          "id": 2,
"name": "Often",
"type": "ChoiceOptionReference"
     ]
  },
```

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```
"fieldId": 1015,
       "name": "Verification By Test Group",
"type": "ChoiceFieldValue",
"values": [
           "id": 1,
"name": "Yes",
"type": "ChoiceOptionReference"
      ]
    },
      "fieldId": 1020,
"name": "Send To Domain",
"type": "ChoiceFieldValue",
       "values": [
            "id": 2,
"name": "Yes",
"type": "ChoiceOptionReference"
      ]
       "fieldId": 1038,
       "name": "Sync Allowed",
"type": "ChoiceFieldValue",
       "values": [
         {
            "type": "ChoiceOptionReference"
, 1
```

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#### **Detected On Date**

Please note that this is an automatically generated field, but we can check it for the sake of an example.

Field settings:

```
{
  "id": 10001,
  "name": "Detected On Date",
  "description": "Date Issue was detected",
  "type": "DateField",
  "hidden": false,
  "valueModel": "DateFieldValue",
  "mandatoryInStatuses": [ ... %%(background-color:initial;)]%!
},
```

This field is a *customField* as there isn't any *trackerItemField* defined and it will accept a *DateFieldValue*.

The definition from the Models section:

```
DateFieldValue > {
   description:
                       Value container of a date field
   fieldId
                        integer($int32)
                        Id of the field
   type*
                        string
                        Type of the field
   name
                        string
                        Name of the field
                        string($date-time)
   value*
                        Date value
}
```

Constructing the valueModel:

```
{
  "fieldId": 10001,
  "name": "Detected On Date",
  "value": "2020-08-10T09:00:00.000",
  "type": "DateFieldValue"
},
```

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### Test Setup

Field settings:

```
"id": 10020,
   "name": "Test Setup",
   "description": "List of Components with Hardware/Software-Date on the test
environment ("Quick test" data)",
   "type": "TextField",
   "hidden": false,
   "valueModel": "TextFieldValue",
   "mandatoryInStatuses": [ ... ]
},
```

It will need a TextFieldValue model in the customFields list:

```
TextFieldValue > {
   description:
                         Value container of a text field
   fieldId
                         integer($int32)
                         Id of the field
   type*
                         string
                         Type of the field
   name
                         string
                        Name of the field
   value*
                         string
                         Text value
}
```

Constructing the valueModel:

```
{
  "fieldId": 10020,
  "name": "Test Setup",
  "value": "{text value}",
  "type": "TextFieldValue"
},
```

Adding **Test Setup** to our *TrackerItem* model:

```
"name": "Training issue",
"description": "Training description",
"severities": [
        "id": 1,
        "name": "VoCA Prio 1",
        "type": "ChoiceOptionReference"
        }
],
```

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```
"customFields": [
   {
      "fieldId": 1006,
      "name": "Occurrence",
"type": "ChoiceFieldValue",
      "values": [
         {
            "id": 2,
"name": "Often",
"type": "ChoiceOptionReference"
      ]
   },
      "fieldId": 1015,
      "name": "Verification By Test Group",
"type": "ChoiceFieldValue",
       "values": [
        "id": 1,
  "name": "Yes",
  "type": "ChoiceOptionReference"
      ]
   },
      "fieldId": 1020,
"name": "Send To Domain",
"type": "ChoiceFieldValue",
      "values": [
            "id": 2,
"name": "Yes",
            "type": "ChoiceOptionReference"
         }
      ]
      "fieldId": 1038,
      "name": "Sync Allowed",
"type": "ChoiceFieldValue",
      "values": [
            "id": 1,
"name": "Supplier External Tool",
"type": "ChoiceOptionReference"
         }
      ]
   },
      "fieldId": 10020,
      "name": "Test Setup",
"value": "Training setup",
"type": "TextFieldValue"
]
```

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### **Test Environment**

Field settings:

```
"id": 10022,
   "name": "Test Environment",
   "description": "Number of Testbench or Car (Finas-Number or name) in which the
test was carried out",
   "type": "TextField",
   "hidden": false,
   "valueModel": "TextFieldValue",
   "mandatoryInStatuses": [ ... ]
},
```

This is a same text field as **Test Setup** so we need to provide the same structure.

### Final request body

Adding **Test Environment** to our *TrackerItem* model:

```
"name": "Training issue",
"description": "Training description",
"severities": [
    "id": 1,
"name": "VoCA Prio 1",
""ChoiceOptionR
     "type": "ChoiceOptionReference"
  }
"customFields": [
  {
     "fieldId": 1006,
     "name": "Occurrence",
"type": "ChoiceFieldValue",
     "values": [
       {
         "id": 2,
"name": "Often",
"type": "ChoiceOptionReference"
       }
     ]
  },
     "fieldId": 1015,
     "name": "Verification By Test Group",
     "type": "ChoiceFieldValue",
     "values": [
         "id": 1,
"name": "Yes",
"type": "ChoiceOptionReference"
     ]
  },
     "fieldId": 1020,
     "name": "Send To Domain",
"type": "ChoiceFieldValue",
     "values": [
       {
         "id": 2,
"name": "Yes",
          "type": "ChoiceOptionReference"
     ]
     "fieldId": 1038,
```

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### The easy way

The easiest way to create a tracker item is to copy an existing one.

Create an item in the codeBeamer UI and use the **GET /v3/items/{itemId}** to retrieve an existing *TrackerItem* model.



After deleting all the read-only fields we can just modify the values and use the model as a template for the future.

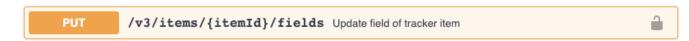
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# Sending issue to domain

After creating an issue we will need to set some additional fields and push it into Open In Domain state in order to create a defect for the Daimler responsible.

Using **PUT /v3/items/{itemId}/fields** endpoint we can modify only a set of field values. It uses a different approach of the **PUT /v3/items/{itemId}** endpoint where the whole tracker item state must be provided.



This endpoint accepts a list of *valueModels* so we will need to handle the built-in fields as custom fields while constructing the request.

### Setting the required fields

We need to set three fields: System, Device, Model.

### System

Field schema:

This field needs *ChoiceFieldValue<TrackerItemReference>* valueModel so we will need to put a *TrackerItemReference* into *ChoiceFieldValue*:

```
{
  "fieldId": 1002,
  "name": "System",
  "type": "ChoiceFieldValue",
  "values": [ <TrackerItemReferences> ]
},
```

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To get the available options choice fields we can call the **GET /v3/items/{itemld}/fields/{fieldld}/options** 

GET

/v3/items/{itemId}/fields/{fieldId}/options

Get the options of a choice field of tracker



### GET /v3/items/{itemId}/fields/1002/options

### The final valueModel:

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#### **Device**

Field schema:

Getting choice options:

#### GET /v3/items/{itemId}/fields/1003/options

The final valueModel:

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### Model

#### Field definition:

```
{
  "id": 1001,
  "name": "Model",
  "description": "Vehicle Model in which Issue was discovered",
  "type": "TrackerItemChoiceField",
  "hidden": false,
  "valueModel": "ChoiceFieldValue<TrackerItemReference>",
  "mandatoryInStatuses": [],
  "multipleValues": false,
  "referenceType": "TrackerItemReference"
},
```

Getting choice options:

#### GET /v3/items/{itemId}/fields/1001/options

#### The final valueModel:

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### Final request body

So finally we can provide three values for the three mandatory fields as a *fieldValues* list.

### PUT /v3/items/{itemId}/fields

```
"fieldValues": [
     {
        "fieldId": 1002,
        "name": "System",
"values": [
             "id": 2750873,
              "name": "Rocket Science",
"type": "TrackerItemReference"
        ],
"type": "ChoiceFieldValue"
        "fieldId": 1003,
        "name": "Device",
        "values": [
             "id": 2750876,
              "name": "Rocket Engine Controller",
"type": "TrackerItemReference"
        ],
         "type": "ChoiceFieldValue"
        "fieldId": 1001,
        "name": "Model",
"values": [
           {
    "id": 2750869,
    "PR217
             "name": "BR217",
"type": "TrackerItemReference"
         "type": "ChoiceFieldValue"
]
```

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### Making the status transition

Status field schema:

```
"id": 7,
"name": "Status",
"description": "Current status of the issue",
"type": "OptionChoiceField", "hidden": false,
"value {\tt Model}": "{\tt ChoiceFieldValue} {\tt ChoiceOptionReference}",
"mandatoryInStatuses": [],
"multipleValues": false,
"options": [
    "id": 0,
"name": "Unset",
     "type": "ChoiceOptionReference"
  },
    "id": 3,
"name": "New / Unassigned",
     "type": "ChoiceOptionReference"
  },
    "id": 5,
"name": "In Verification",
     "type": "ChoiceOptionReference"
    "id": 7,
"name": "Closed",
     "type": "ChoiceOptionReference"
  {
    "id": 8,
"name": "Open In Domain",
     "type": "ChoiceOptionReference"
  }
"trackerItemField": "status",
"referenceType": "ChoiceOptionReference"
```

This an example where the explicitly defined fields are handled as custom field values for **PUT /v3/items/{itemId}/fields**. Because of this we need to construct a *ChoiceFieldValue<ChoiceOptionReference>* and provide it in the *fieldValues* list.

#### PUT /v3/items/{itemId}/fields

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# Rejecting a defect

Once a defect is created in domain and the Daimler responsible did put it into In Progress status the supplier can reject it in case when it's not their responsibility to fix it.

### Setting the required fields

Two fields need to be set: Supplier Status and Reject Reason

### **Supplier Status**

#### Field schema

```
"id": 1018,
"name": "Supplier Status",
"description": "Current status of the defect in the supplier workflow",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [],
"multipleValues": false,
"options": [
     "id": 0,
"name": "Unset",
     "type": "ChoiceOptionReference"
  },
    "id": 1,
"name": "Supplier Not Assigned",
""": acontionReference"
     "type": "ChoiceOptionReference"
  },
  {
    "id": 2,
"name": "Supplier Rejected",
"ChaigeOntionReferen
     "type": "ChoiceOptionReference"
  },
    "id": 3,
"name": "Supplier Assigned",
"" in riceOntionReferen
     "type": "ChoiceOptionReference"
  },
    "id": 4,
    "name": "Supplier Analyzed",
"type": "ChoiceOptionReference"
  },
     "id": 5,
    "name": "Supplier Implemented",
"type": "ChoiceOptionReference"
    "id": 6,
    "name": "Supplier Verified",
"type": "ChoiceOptionReference"
"referenceType": "ChoiceOptionReference"
```

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The valueModel:

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### Reject Reason

#### Field definition:

```
"id": 1028,
     "name": "Reject Reason",
     "description": "Reason / Justification for rejecting Defect (e.g. out of scope,
missing information)",
     "type": "OptionChoiceField", "hidden": false,
     "valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
     "mandatoryInStatuses": [],
     "multipleValues": false,
     "options": [
        {
          "id": 0,
"name": "Unset",
"type": "ChoiceOptionReference"
        },
          "id": 1,
"name": "Not In Scope",
"type": "ChoiceOptionReference"
          "id": 2,
"name": "Missing Info",
"type": "ChoiceOptionReference"
           "id": 4,
          "name": "Not Responsible",
"type": "ChoiceOptionReference"
          "id": 5,
"name": "Not Reproducible",
"type": "ChoiceOptionReference"
        }
     "referenceType": "ChoiceOptionReference"
```

#### The valueModel:

```
{
  "fieldId": 1028,
  "name": "Reject Reason",
  "values": [
        "id": 4,
        "name": "Not Responsible",
        "type": "ChoiceOptionReference"
    }
  ],
  "type": "ChoiceFieldValue"
}
```

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### Final request body

We can now set the mandatory field values.

### PUT /v3/items/{itemId}/fields

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### Making the status transition

#### Status field definition:

```
"id": 7,
"name": "Status",
"description": "Current status of the defect",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [],
"multipleValues": false,
"options": [
     "id": 0,
"name": "Unset",
"type": "ChoiceOptionReference"
   },
     "id": 1,
"name": "Open",
      "type": "ChoiceOptionReference"
   },
     "id": 4,
"name": "Fixed",
"type": "ChoiceOptionReference"
     "id": 7,
"name": "Closed",
      "type": "ChoiceOptionReference"
      "id": 10,
      "name": "Verification Pending",
"type": "ChoiceOptionReference"
     "id": 11,
"name": "In Progress",
"type": "ChoiceOptionReference"
],
"trackerItemField": "status",
" "ChoiceOptio
"referenceType": "ChoiceOptionReference"
```

#### Request:

#### PUT /v3/items/{itemId}/fields

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# Fixing a defect

Once the defect is created in domain and the Daimler responsible did put it into *In Progress* status the supplier can start to fix it. Once it fixed the defect should be pushed into *Fixed* status.

### Setting the required fields

Two fields are required to full out: Supplier Status and Fixed In Release.

### **Supplier Status**

Field schema:

```
"id": 1018,
"name": "Supplier Status",
"description": "Current status of the defect in the supplier workflow",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [],
"multipleValues": false,
"options": [
    "id": 4,
"name": "Supplier Analyzed",
"type": "ChoiceOptionReference"
    "id": 5,
"name": "Supplier Implemented",
    "type": "ChoiceOptionReference"
    "id": 6,
"name": "Supplier Verified",
    "type": "ChoiceOptionReference"
    "id": 7,
"name": "Supplier Closed",
    "type": "ChoiceOptionReference"
    "id": 8,
"name": "Supplier Fixed",
    "type": "ChoiceOptionReference"
  }
"referenceType": "ChoiceOptionReference"
```

The valueModel:

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#### Fixed In Release

Field schema:

The valueModel:

```
{
  "fieldId": 10003,
  "name": "Fixed In Release",
  "value": "Supplier release 1",
  "type": "TextFieldValue"
```

### Final request body

We can now set the values for the two mandatory field values.

### PUT /v3/items/{itemId}/fields

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### Making the status transition

#### Status field definition:

```
"id": 7,
"name": "Status",
"description": "Current status of the defect",
"type": "OptionChoiceField",
"hidden": false,
"valueModel": "ChoiceFieldValue<ChoiceOptionReference>",
"mandatoryInStatuses": [],
"multipleValues": false,
"options": [
     "id": 0,
"name": "Unset",
"type": "ChoiceOptionReference"
   },
     "id": 1,
"name": "Open",
      "type": "ChoiceOptionReference"
   },
     "id": 4,
"name": "Fixed",
      "type": "ChoiceOptionReference"
     "id": 7,
"name": "Closed",
      "type": "ChoiceOptionReference"
     "id": 10,
     "name": "Verification Pending",
"type": "ChoiceOptionReference"
     "id": 11,
"name": "In Progress",
"type": "ChoiceOptionReference"
],
"trackerItemField": "status",
" "ChoiceOptio
"referenceType": "ChoiceOptionReference"
```

#### Request:

### PUT /v3/items/{itemId}/fields

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# Querying items

Using **GET /v3/items/query** or **POST /v3/items/query** can be used to extract detailed tracker item information using complex <u>cbQL queries</u>.



Both **GET** and **POST** methods have the same functionality. The **POST** method was introduced for use cases where the URL length limitation would compromise the **GET** query.

### Getting all Issues which were modified since a given date

The following <u>cbQL</u> query can be used as *queryString* parameter:

```
tracker.id IN (13245407) AND modifiedAt >= '2020-08-11 00:00:00'
```

### Getting all Defects which having a specific device

Finding devices in Master Data tracker:

#### **GET /v3/projects**

```
"id": 9562,
  "name": "Master Data",
  "type": "ProjectReference"
},
```

#### GET /v3/projects/9562/trackers

```
"id": 13243948,

"name": "Device",

"type": "TrackerReference"
},
```

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#### GET /v3/trackers/13243948/items

The following <u>cbQL</u> query can be used as *queryString* parameter:

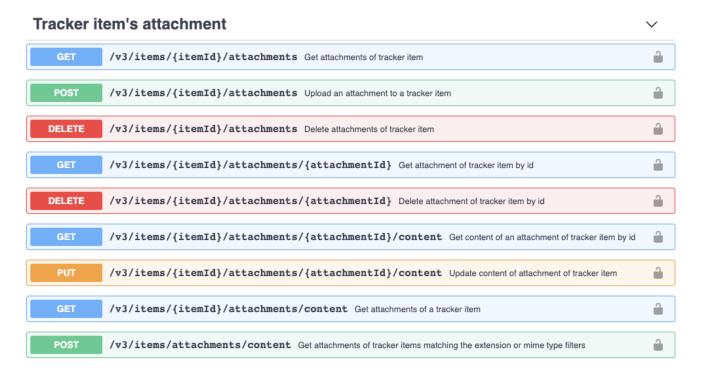
```
tracker.id IN (13245407) AND referenceToId = 2750876
```

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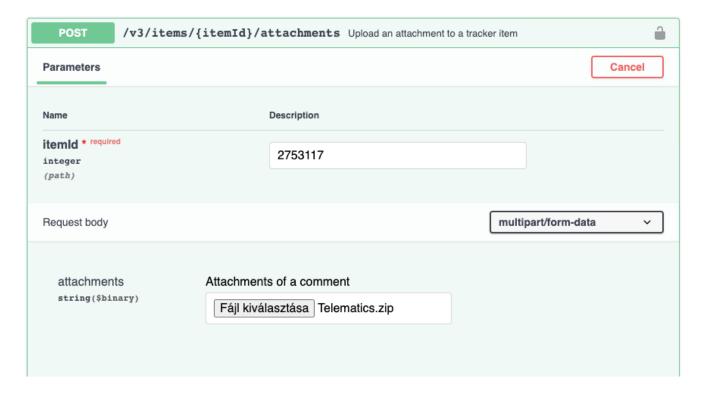


# Attaching files

There is a rich attachment API in the Tracker item's attachment section:



To attach a file we can use the **POST /v3/items/{itemId}/attachments** using the id of the target item and the attachment file.



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# Finding which model needs to be used in an explicitly defined field

Open the Models section at the bottom of the page:



Find the TrackerItem model:

```
TrackerItem > {...}
```

Find the severities property:

```
Severities

AbstractReference 

AbstractReference 

description: Reference to an item

id integer($int32)
minimum: 0
Id of the entity

name 
string
Name of the entity

type 
string
Type of a referenced object
```

It will accept an AbstractReference and we can find out the reference Type based on the field settings:

```
"referenceType": "ChoiceOptionReference"
```

Now we can look up the definition of the ChoiceOptionReference in the Models section:

```
ChoiceOptionReference  

description: Reference to a choice option

id integer($int32)
minimum: 0
Id of the entity

name string
Name of the entity

type string
Type of a referenced object

}
```

This will provide the layout for our valueModel.

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