

4.5 Custom attribute service

Custom attribute Service

Bimplus DB

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Team DB

Important: All the APIs described in the Bimplus DB section applies to the Team DB as well. Replace the keyword "content" with the "team_slug" for working with the custom attributes & attribute groups in Team DB.

eg: Bimplus DB: <https://api-stage.bimplus.net/v2/content/freeattributegroups>. Similar call in Team DB will be https://api-stage.bimplus.net/v2/<team_slug>/freeattributegroups.

Team DB contains some additional APIs for working with attribute templates which are specified in this section.

Project Attribute Templates

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Attribute Templates

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Element-type filter

- [Retrieve a list of element-types to which an attribute template can be assigned](#)
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Custom attribute Service

Using these services, custom property groups & its associated properties can be created.

Create a new custom group in Bimplus DB

URL / Resource / JSON Structure

Resource: `content/freeattributegroups`

URL: <https://api-stage.bimplus.net/v2/content/freeattributegroups>

Example: <https://api-stage.bimplus.net/v2/content/freeattributegroups>

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the attribute group
description	optional	string	Short description of the attribute group
parent	optional	string (guid)	Parent attribute group. If not specified, then the created group is a stand-alone group
children	will be ignored	json	Sub groups

HTTP Method

POST

Description

Creates a new custom attribute group. The created group could be either stand-alone (parent not specified), or created inside another group (the id of the parent has to be specified)

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{
  "name": "TestGroup",
  "description": "Test group",
  "parent" : "6e57160e-5d5d-46a4-b4d3-b9e46d03ee75"
}
```

Response

Status

Status: 201 Created

JSON

```
{
  "id": "da9c6db5-92fa-473d-9282-483c40907a95",
  "name": "TestGroup",
  "description": "Test group",
  "parent" : "6e57160e-5d5d-46a4-b4d3-b9e46d03ee75"
}
```

Get all the free attribute groups from the Bimplus DB

URL / Resource / JSON Structure

Resource: content/freeattributegroups

URL: https://api-stage.bimplus.net/v2/content/freeattributegroups

Example: https://api-stage.bimplus.net/v2/content/freeattributegroups

HTTP Method

GET

Description

Get all the free attribute groups from the Bimplus DB

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON
<pre>[{ "id": "81a39304-9d4a-4e8d-826e-7736b9350562", "name": "ALLFA Attributes", "description": "" }, { "id": "e6b44081-8983-4c07-b1a7-2c43bc199927", "name": "Allplan Attributes", "description": "" }, { "id": "af12dda5-dafe-4b05-adeb-638617cc6907", "name": "BaseQuantities", "description": "" }, { "children": [{ "parent": "073245c3-6ed4-40a0-9146-ecd1eb111500", "id": "170820da-de29-437a-aa97-f7984a319890", "name": "Element", "description": "tabAttribbElement" }, { "parent": "073245c3-6ed4-40a0-9146-ecd1eb111500", "id": "af946941-5a14-4c6a-be9f-424ca59b10b5", "name": "Element State", "description": "tabAttribbElementState" }, { "parent": "073245c3-6ed4-40a0-9146-ecd1eb111500", "id": "0f6906f2-305d-4899-979a-6ce1e49af6a9", "name": "General", "description": "tabAttribGeneral" }, { "parent": "073245c3-6ed4-40a0-9146-ecd1eb111500", "id": "66c2ba5e-8a70-40b8-9918-fccd1663f3bb", "name": "IFC", "description": "tabAttribIFC" }], "id": "073245c3-6ed4-40a0-9146-ecd1eb111500", "name": "Bimplus Property Sets", "description": "" },]</pre>

```

{
  "id": "5d184904-fab5-4e53-9916-e9c20c4e31b7",
  "name": "Building Attribute",
  "description": ""
},
{
  "id": "1b567ec2-4a10-43ba-b791-45f288866808",
  "name": "CostPlanning",
  "description": "DIN276"
},
{
  "id": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
  "name": "Engineering Attributes",
  "description": ""
},
{
  "id": "1d9b883c-ecf5-4b91-b6a0-adea66432f6c",
  "name": "Identity Data",
  "description": ""
},
{
  "children": [
    {
      "parent": "99b99afa-abed-4a9e-99be-f2d3a2cb29de",
      "id": "6f496c13-e153-4ebd-8662-f00fe3e81e20",
      "name": "Pset_StairCommon",
      "description": ""
    }
  ],
  "id": "99b99afa-abed-4a9e-99be-f2d3a2cb29de",
  "name": "IFC",
  "description": ""
},
{
  "id": "cf83b687-b7ff-466b-9c15-853488455c5b",
  "name": "MEP Attribute",
  "description": ""
},
{
  "id": "969df3d1-5e79-4eea-aca9-5758d0026b39",
  "name": "Pset_[EType]Common",
  "description": ""
},
{
  "id": "431754db-32e6-4fc4-b252-a647b94aa5a8",
  "name": "Space Attributes",
  "description": ""
}
]

```

Get the info about a particular free attribute group

URL / Resource / JSON Structure

Resource: content/freeattributegroups

URL: https://api-stage.bimplus.net/v2/content/freeattributegroups/<attributegroup_id>

Example: <https://api-stage.bimplus.net/v2/content/freeattributegroups/b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8>

HTTP Method

GET

Description

Get the info about a particular free attribute group and its sub-groups(hierarchy) It doesn't return the free attributes under this group.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
{
  "id": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
  "name": "Engineering Attributes",
  "description": ""
}
```

Update a particular free attribute group

URL / Resource / JSON Structure

Resource: content/freeattributegroups

URL: https://api-stage.bimplus.net/v2/content/freeattributegroups/<id>

Example: https://api-stage.bimplus.net/v2/content/freeattributegroups/b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	optional	string	Name of the attribute group
description	optional	string	Short description of the attribute group
id	will be ignored	string (guid)	Id of the free attribute group

HTTP Method

PUT

Description

Update a particular free attribute group. It is also possible to move the group as a sub-group of another group by changing its parent

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{
  "name": "Engineering Attributes",
  "description": "updated description"
}
```

Response

Status
Status: 200 OK

JSON
<pre>{ "id": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8", "name": "Engineering Attributes", "description": "updated description" }</pre>

Delete a particular free attribute group

URL / Resource / JSON Structure

Resource: content/freeattributegroups

URL: https://api-stage.bimplus.net/v2/content/freeattributegroups/<id>

Example: https://api-stage.bimplus.net/v2/content/freeattributegroups/b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8

HTTP Method

DELETE

Description

Deletes a specified attribute group.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

Create a free attribute under a particular attribute group or as stand-alone

URL / Resource / JSON Structure

Resource: content/freeattributes

URL: https://api-stage.bimplus.net/v2/content/freeattributes

Example: https://api-stage.bimplus.net/v2/content/freeattributes

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the attribute
description	optional	string	Short description of the attribute
type	mandatory	string	Type of free attributes. It could be one of the following: "int", "double", "string", "guid", "datetime", "binary", "boolean"
minvalue	optional	string(numbers)	Minimum value constraint of the attribute

maxvalue	optional	string(numbers)	Maximum value constraint of the attribute
defaultvalue	optional	string(numbers)	Default value of the attribute (if it's value is not specified)
decimal	optional	int	Number of decimals
unitid	optional	string(guid)	Id of the unit
optionalsymbol	optional	string(symbol)	Optional symbol
visible	optional	int	0 or 1. It determines whether the attribute should be visible
changeable	optional	int	0 or 1. It determines whether the attribute should be chnageable
controltype	optional	string	The control type (eg: "Checkbox", "Datepicker", "TextBox", "Enumeration", "Combobox")
enumDefinition	optional, mandatory for controltypes: "Enumeration", "Combobox"	string	Mandatory for controltype "Enumeration" List of items - pair of key,value separated with semicolon (";") Separator of key and value is character pipe (" ") (eg: "0 Undefined;1 Extension;2 Finish;3 New building;4 Reconstruction;5 Building alteration") Mandatory for controltype "Combobox" List of items - values separated with character pipe (" ") (eg: "Undefined Extension Finish New building Reconstruction Building alteration")
symbol	will be ignored	string	Symbol of the unit
parent	optional	string(guid)	Id of the attribute group. If not specified, then the created attribute is a stand-alone one.

HTTP Method

POST

Description

Creates a new custom attribute. The created attribute could be either stand-alone (parent not specified), or part of the custom attribute group (the id of the parent has to be specified)

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

JSON
<pre>{ "name": "NewFreeAttribute", "description": "Test attribute", "type": "int", "minvalue" : "1", "maxvalue" : "1000", "defaultvalue" : "1", "decimal" : "0", "attribunitnameid" : "F99F40CF-DA64-4C4F-8434-CB90722BA485", "optionalsymbol" : "\$", "visible" : "1", "changeable" : "1", "controltype" : "textbox", "parent" : "6e57160e-5d5d-46a4-b4d3-b9e46d03ee75" }</pre>

Response

Status
Status: 201 Created

JSON

```
{
  "freeattribtype": "int",
  "minvalue": "1",
  "maxvalue": "1000",
  "defaultvalue": "1",
  "decimal": 0,
  "attribunitnameid": "f99f40cf-da64-4c4f-8434-cb90722ba485", --> unitId (we already know it is attribute)
  "symbol": "mm",
  "optionalsymbol": "$",
  "visible": 1,
  "changeable": 1,
  "controltype": "textbox", --> The client should decide
  "id": "d6cac39a-4b6e-473f-813f-87f7fb92d3fe",
  "name": "NewFreeAttribute",
  "description": "Test attribute",
  "parent" : "6e57160e-5d5d-46a4-b4d3-b9e46d03ee75"
}
```

Get all the free attributes from the Bimplus DB

URL / Resource / JSON Structure

Resource: content/freeattributes

URL: <https://api-stage.bimplus.net/v2/content/freeattributes>

Example: <https://api-stage.bimplus.net/v2/content/freeattributes?filter=name=Gross>

Optional query parameters

Name	Type	Default value	Description
filter	string		When filter "name=Gross" is defined the API will return only free attributes which Name contains requested substring, e.g. if filter is "name=Gross" will be returned all free attributes which Name contains substring "Gross". Like GrossFloorArea, GrossWallArea, GrossWeight etc.

HTTP Method

GET

Description

Get all the free attributes from the Bimplus DB

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
[
  {
    "parent": "5d184904-fab5-4e53-9916-e9c20c4e31b7",
    "type": null,
    "id": "8d3d9dd5-c998-465b-b13e-87901c90f3bc",
    "name": "heat transfer coefficient"
  },
  {
    "parent": "5d184904-fab5-4e53-9916-e9c20c4e31b7",
    "type": null,
    "id": "a6645047-39ee-4c87-9fc3-14cca0c50ac",
    "name": "density"
  },
  {
    "parent": "431754db-32e6-4fc4-b252-a647b94aa5a8",
    "type": null,
    "id": "8807e401-6e3c-4536-88e1-e834d4de745d",
    "name": "floor area"
  },
  {
    "parent": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
    "type": null,
    "id": "b5850e23-b1df-4d4f-aae8-cee0d4bb06e6",
    "name": "bend radius"
  },
  ....
]
```

Get all the free attributes under a attribute group

URL / Resource / JSON Structure

Resource: freeattributes

URL: https://api-stage.bimplus.net/v2/content/freeattributegroups/<attributegroup_id>/freeattributes

Example: <https://api-stage.bimplus.net/v2/content/freeattributegroups/b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8/freeattributes>

HTTP Method

GET

Description

Get all the free attributes under a attribute group

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
[
  {
    "parent": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
    "type": "double",
    "minvalue": "0",
    "decimal": 2,
    "unitid": "f99f40cf-da64-4c4f-8434-cb90722ba485",
    "unit": "mm",
    "visible": 1,
    "changeable": 0,
    "controltype": "TextBox",
    "id": "b5850e23-b1df-4d4f-aae8-cee0d4bb06e6",
    "name": "bend radius",
    "description": "bend diameter for reinforcement bars"
  },
  {
    "parent": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
    "type": "double",
    "minvalue": "0",
    "defaultvalue": "5",
    "decimal": 2,
    "unitid": "f99f40cf-da64-4c4f-8434-cb90722ba485",
    "unit": "mm",
    "visible": 1,
    "changeable": 0,
    "controltype": "TextBox",
    "id": "c4623c1b-dfd3-4117-af37-091eaaff60bf",
    "name": "concrete cover",
    "description": "the least distance between the surface of embedded reinforcement and the outer surface of the concrete"
  },
  {
    "parent": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
    "type": "int",
    "decimal": 0,
    "visible": 1,
    "changeable": 0,
    "controltype": "TextBox",
    "id": "1c838554-3692-4ed4-afaf-989a9e59252b",
    "name": "SteelGrade",
    "description": "Kurzbez. der Stahlgüte @495@"
  },
  {
    "parent": "b03b5eb0-58f0-40a7-95fb-cb36b6f14cc8",
    "type": "int",
    "decimal": 0,
    "visible": 1,
    "changeable": 0,
    "controltype": "TextBox",
    "id": "d7ab92f4-ddf1-404b-8875-57b25b8fe66a",
    "name": "CrossSectionNumber",
    "description": "Nummer der Querschnittsreihe @496@"
  }
]
```

Get the info about a particular free attribute in Bimplus DB

URL / Resource / JSON Structure

Resource: content/freeattributes

URL: https://api-stage.bimplus.net/v2/content/freeattributes/<attribute_id>

Example: <https://api-stage.bimplus.net/v2/content/freeattributes/c4623c1b-dfd3-4117-af37-091eaaff60bf>

HTTP Method

GET

Description

Get the info about a particular free attribute in Bimplus DB

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON
<pre>{ "type": "double", "minvalue": "0", "defaultvalue": "5", "decimal": 2, "unitid": "f99f40cf-da64-4c4f-8434-cb90722ba485", "unit": "mm", "visible": 1, "changeable": 0, "controltype": "TextBox", "id": "c4623c1b-dfd3-4117-af37-091eaaff60bf", "name": "concrete cover", "description": "the least distance between the surface of embedded reinforcement and the outer surface of the concrete" }</pre>

Update a particular free attribute in Bimplus DB

URL / Resource / JSON Structure

Resource: content/freeattributes

URL: https://api-stage.bimplus.net/v2/content/freeattributes/<attribute_id>

Example: https://api-stage.bimplus.net/v2/content/freeattributes/c4623c1b-dfd3-4117-af37-091eaaff60bf

JSON Structure:

Name	Mandatory / Optional	Type	Description
id	will be ignored	string(guid)	Id of the free attribute
name	optional	string	Name of the attribute
description	optional	string	Short description of the attribute
type	optional	string	Type of free attributes. It could be one of the following: "int", "double", "string", "guid", "datetime", "binary", "boolean"
minvalue	optional	string(numbers)	Minimum value constraint of the attribute
maxvalue	optional	string(numbers)	Maximum value constraint of the attribute
defaultvalue	optional	string(numbers)	Default value of the attribute (if it's value is not specified)
decimal	optional	int	Number of decimals
unitid	optional	string(guid)	Id of the unit

optionalsymbol	optional	string(symbol)	Optional symbol
visible	optional	int	0 or 1. It determines whether the attribute should be visible
changeable	optional	int	0 or 1. It determines whether the attribute should be chnageable
controltype	optional	string	The control type (eg: "Checkbox", "Datepicker", "TextBox", "Enumeration", "Combobox")
enumDefinition	optional, mandatory for controltypes: "Enumeration", "Combobox"	string	Mandatory for controltype "Enumeration" List of items - pair of key,value separated with semicolon (";") Separator of key and value is character pipe (" ") (eg: "0 Undefined;1 Extension;2 Finish;3 New building;4 Reconstruction;5 Building alteration") Mandatory for controltype "Combobox" List of items - values separated with character pipe (" ") (eg: "Undefined Extension Finish New building Reconstruction Building alteration")
symbol	will be ignored	string	Symbol of the unit
parent	optional	string(guid)	Id of the attribute group. It is also possible to move attribute to another group by changing its parent

HTTP Method

PUT

Description

Update a particular free attribute. It is also possible to move attribute to another group by changing its parent.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

JSON
<pre>{ "type": "double", "minvalue": "0", "defaultvalue": "5", "decimal": 2, "unitid": "f99f40cf-da64-4c4f-8434-cb90722ba485", "unit": "mm", "visible": 1, "changeable": 0, "controltype": "TextBox", "name": "concrete cover", "description": "updated description" }</pre>

Response

Status
Status: 200 OK

JSON

```
{
  "type": "double",
  "minvalue": "0",
  "defaultvalue": "5",
  "decimal": 2,
  "unitid": "f99f40cf-da64-4c4f-8434-cb90722ba485",
  "unit": "mm",
  "visible": 1,
  "changeable": 0,
  "controltype": "TextBox",
  "id": "c4623c1b-dfd3-4117-af37-091eaaff60bf",
  "name": "concrete cover",
  "description": "updated description"
}
```

Delete a particular free attribute

URL / Resource / JSON Structure

Resource: content/freeattributes

URL: https://api-stage.bimplus.net/v2/content/freeattributes/<id>

Example: https://api-stage.bimplus.net/v2/content/freeattributes/c4623c1b-dfd3-4117-af37-091eaaff60bf

HTTP Method

DELETE

Description

Deletes a specific attribute.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

Create a new unit in Bimplus DB

URL / Resource / JSON Structure

Resource: content/units

URL: https://api-stage.bimplus.net/v2/content/units

Example: https://api-stage.bimplus.net/v2/content/units

JSON Structure of unit:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the unit

description	optional	string	Short description of the unit
unit	mandatory	string	Symbol of the unit
contextUnitType	optional	string	Context unit type
baseunits	optional	array of jsons	List of base units

The "baseunits" property is an array of jsons with following definitions :

Name	Mandatory/Optional	Type	Description
baseunitid	optional	string(guid)	Base unit ID
usequence	optional	int	Unit sequence (default is 1)
upower	optional	int	Unit power (default is 1)
ufactor	optional	int	Unit factor (default is 1)

HTTP Method

POST

Description

Creates a new unit. An unit can be created fresh(base unit) or it can be derived from one or more base units (defined by property "baseunits").

Here is a simple explanation of how to create a derived unit, e.g. gram per square meter "g/m2" :

json description

```
"baseunits": [
  {
    "baseunitid": "3b871b65-516e-4e7e-a35f-faa7501d5d0d", // ID of kilogram "kg"
    "usequence": 1, // first in the sequence
    "ufactor": 0.001, // gram is 0.001 * kg
    "upower": 1 // no power used
  },
  {
    "baseunitid": "7be3452a-47f9-4fd8-bd94-ef6c967d684e", // ID of meter "m"
    "usequence": 2, // second in the sequence
    "ufactor": 1, // 1 * meter
    "upower": -1 // meter ^-1
  }
]
```

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{
  "name": "MyDerivedUnit",
  "description": "Example of derived unit",
  "symbol": "Sym",
  "baseunits" : [
    {
      "baseunitid": "3b871b65-516e-4e7e-a35f-faa7501d5d0d",
      "usequence": 1,
      "ufactor": 2,
      "upower": 3
    }
  ]
}
```

Response

Status
Status: 201 Created

JSON
<pre>{ "id": "9c75f2e7-bf66-4274-96a6-fb61ecb0e21a", "name": "MyDerivedUnit", "description": "Example of derived unit", "symbol": "Sym", "baseunits" : [{ "baseunitid": "3b871b65-516e-4e7e-a35f-faa7501d5d0d", "usequence": 1, "ufactor": 2, "upower": 3 }] }</pre>

Get all the units from Bimplus DB

URL / Resource / JSON Structure

Resource: content/units

URL: https://api-stage.bimplus.net/v2/content/units

Example: https://api-stage.bimplus.net/v2/content/units

Optional query parameters

Name	Type	Default value	Description
symbol	string		When symbol "kg" is defined the API returns all the unit with the specified symbol name. e.g. "https://api-stage.bimplus.net/v2/content/units?symbol=kg"

HTTP Method

GET

Description

Get all the units from Bimplus DB.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON

```
[
  {
    "unit": "€",
    "contextUnitType": "CURRENCYUNIT",
    "id": "85fae1e9-5774-4bce-9831-911c8ff0d6b2",
    "name": "Currency",
    "description": "base unit for currency"
  },
  {
    "unit": "W/(m2*K)",
    "contextUnitType": "THERMALTRANSMITTANCEUNIT",
    "baseunits": [
      {
        "baseunitid": "cbd91636-49fa-4a4f-bdcc-03f27ca205f8",
        "usequence": 1,
        "ufactor": 1,
        "upower": -1
      }
    ],
    "id": "32ef9505-baa6-4598-b372-8e050aef57d4",
    "name": "Watt_per_square_meter_per_Kelvin",
    "description": "unit for heat transfer coefficient"
  },
  {
    "unit": "mm",
    "contextUnitType": "LENGTHUNIT",
    "baseunits": [
      {
        "baseunitid": "7be3452a-47f9-4fd8-bd94-ef6c967d684e",
        "usequence": 1,
        "ufactor": 0.001,
        "upower": 1
      }
    ],
    "id": "f99f40cf-da64-4c4f-8434-cb90722ba485",
    "name": "mm",
    "description": "unit for length in millimeter"
  },
  .....
]
```

Get the info about a particular unit in Bimplus DB

URL / Resource / JSON Structure

Resource: content/units

URL: https://api-stage.bimplus.net/v2/content/units/<unit_id>

Example: <https://api-stage.bimplus.net/v2/content/units/3b871b65-516e-4e7e-a35f-faa7501d5d0d>

HTTP Method

GET

Description

Get the info about a particular unit in Bimplus DB.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
{
  "unit": "mm",
  "contextUnitType": "LENGTHUNIT",
  "baseunits": [
    {
      "baseunitid": "7be3452a-47f9-4fd8-bd94-ef6c967d684e",
      "usequence": 1,
      "ufactor": 0.001,
      "upower": 1
    }
  ],
  "id": "f99f40cf-da64-4c4f-8434-cb90722ba485",
  "name": "mm",
  "description": "unit for length in millimeter"
}
```

Update a particular unit

URL / Resource / JSON Structure

Resource: content/units

URL: https://api-stage.bimplus.net/v2/content/units/<id>

Example: https://api-stage.bimplus.net/v2/content/units/3b871b65-516e-4e7e-a35f-faa7501d5d0d

JSON Structure: See [Create Unit](#)

HTTP Method

PUT

Description

Update a particular unit.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{
  "name": "MyDerivedUnit updated",
  "description": "Example of derived unit",
  "symbol": "Sym",
  "baseunits" : [
    {
      "baseunitid": "3b871b65-516e-4e7e-a35f-faa7501d5d0d",
      "usequence": 1,
      "ufactor": 2,
      "upower": 3
    }
  ]
}
```

Response

Status

Status: 200 OK

JSON

```
{
  "id": "9c75f2e7-bf66-4274-96a6-fb61ecb0e21a",
  "name": "MyDerivedUnit updated",
  "description": "Example of derived unit",
  "symbol": "Sym",
  "baseunits" : [
    {
      "baseunitid": "3b871b65-516e-4e7e-a35f-faa7501d5d0d",
      "usequence": 1,
      "ufactor": 2,
      "upower": 3
    }
  ]
}
```

Delete a particular unit

URL / Resource / JSON Structure

Resource: content/units

URL: https://api-stage.bimplus.net/v2/content/units/<unit_id>

Example: <https://api-stage.bimplus.net/v2/content/units/3b871b65-516e-4e7e-a35f-faa7501d5d0d>

HTTP Method

DELETE

Description

Deletes the specific unit.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

Create new project attribute template in team

URL / Resource / JSON Structure

Resource: projectattributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates>

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Unique name of the project attribute template
description	optional	string	Short description of the project attribute template

HTTP Method

POST

Description

Creates a new project attribute template.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{  
  "name": "My project attribute template",  
  "description": "Project attribute template for my team",  
}
```

Response

Status

Status: 201 Created

JSON

```
{
  "name": "My project attribute template",
  "description": "Project attribute template for my team",
  "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Get the list of existing project attribute templates in team

URL / Resource / JSON Structure

Resource: projectattributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates>

HTTP Method

GET

Description

Get all the project attribute templates that belongs to a team. Each team has at least one default project attribute template.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
[
  {
    "name": "Default",
    "description": "Default project attribute template",
    "id": "0149c4a8-4e84-4c40-bfdd-5dd63b109266"
  },
  {
    "name": "My project attribute template",
    "description": "Project attribute template for my team",
    "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
  }
]
```

Get the info about a particular project attribute template

URL / Resource / JSON Structure

Resource: projectattributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates/<projectattributetemplates_id>

Example: <https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates/49d13da3-2acf-4f0b-b667-40fc0197585f>

HTTP Method

GET

Description

Get the info about a particular project attribute template that belongs to a particular team.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

JSON

```
{
  "name": "My project attribute template",
  "description": "Project attribute template for my team",
  "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Update a particular project attribute template

URL / Resource / JSON Structure

Resource: projectattributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates/49d13da3-2acf-4f0b-b667-40fc0197585f>

JSON Structure: See [Create project attribute template](#)

HTTP Method

PUT

Description

Update a particular project attribute template that belongs to a particular team.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

```
{
  "name": "My project attribute template2",
  "description": "Project attribute template for my team2",
}
```

Response

Status

Status: 200 OK

JSON

```
{
  "name": "My project attribute template2",
  "description": "Project attribute template for my team2",
  "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Delete the project attribute template

URL / Resource / JSON Structure

Resource: projectattributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates/49d13da3-2acf-4f0b-b667-40fc0197585f>

HTTP Method

DELETE

Description

Deletes the specific project attribute template.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

Response

Status

Status: 200 OK

Copy attribute templates from source to target project attribute template

Url / Resource / Json

Resource: projectattributetemplates/<targetprojectattributetemplates_id>/copyfrom

URL: https://api-stage.bimplus.net/v2/<team_slug>/projectattributetemplates/<targetprojectattributetemplates_id>/copyfrom

Example:<https://api-stage.bimplus.net/v2/bimplus/projectattributetemplates/49d13da3-2acf-4f0b-b667-40fc0197585f/copyfrom>

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	will be ignored	string	Name of the project attribute template
description	will be ignored	string	Description of the project attribute template
id	mandatory	string(guid)	Unique guid of the source project attribute template

HttpMethod

PUT

Description

Updates the specified target project attribute template with all attribute templates from source project attribute template.
When project attribute template id is missing will be used internally default project attribute template (Guid as "0149c4a8-4e84-4c40-bfdd-5dd63b109266") as a source project attribute template.

Note:
In case when some attribute templates are already assigned to target project attribute template and the same attribute template is present also in source project attribute template,
in such case attribute templates will be added to target project attribute template.

Request

Headers

Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088
Content-Type: application/json

JSON

{
 "name": "Default",
 "description": "Default project attribute template",
 "id": "0149c4a8-4e84-4c40-bfdd-5dd63b109266"
}

Response

Status

Status: 200 OK

JSON

{
 "name": "My project attribute template",
 "description": "Project attribute template for my team",
 "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}

Create an attribute template

URL / Resource / JSON Structure

Resource: attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/attributetemplates

Example: https://api-stage.bimplus.net/v2/bimplus/attributetemplates

JSON Structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the attribute template
description	optional	string	Short description of the attribute template
projectAttributeTemplate	mandatory	string(guid)	Guid of the project attribute template
freeattributes	optional	JSON Array	List of free attributes directly under this template (in create, only IDs of those attributes are required) The List defines also automatically the orderNumber of the attributes inside of the template
elementtypes	mandatory	JSON Array	List of element type ids to which the template will be assigned. At least one element type is mandatory.
groups	optional	JSON Array	Sub-groups of attributes
created	will be ignored	string (Date)	Creation date
createdBy	will be ignored	JSON (User)	User who created the template
changed	will be ignored	string (Date)	Date of last modification
changedBy	will be ignored	JSON (User)	User who did the modification
orderNumber	optional	integer	will be used for ordering current attribute template to existing templates 0 -> this template will be added at the end of all templates. 1...n -> this template will be added at a fixed position; all other templates will be reordered automatically

The property "groups" has following JSON structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the group
description	optional	string	Group description
freeattributes	optional	Json Array	List of free attributes directly under this group (in create, only IDs of those attributes are required)
groups	optional	Json Array	List of subgroups of this group.

HTTP Method

POST

Description

Creates a new attribute template using free attributes & element types. For both free attributes and element types, it is enough to specify just their IDs in the request, the rest of the data will be loaded automatically from the database, and returned in the response.

Free attributes may be directly under the template, or you could use the "groups" property to create a logical hierarchy of attributes in groups.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

JSON

```
{
  "name": "My attribute template",
  "description": "Attribute template for Walls",
  "elementtypes": [
    {
      "id": "10074EEF-9418-4D64-9C6D-23932835A7F1"
    }
  ],
  "groups": [
    {
      "name": "Group 1",
      "description": "One of the top groups",
      "freeattributes": [
        {
          "id": "06124729-2778-4c16-98d1-9d89e760b195"
        }
      ]
    },
    {
      "name": "Group 2",
      "groups": [
        {
          "name": "SubGroup 3",
          "description": "Some sub group",
          "freeattributes": [
            {
              "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5"
            }
          ]
        }
      ]
    }
  ],
  "projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285"
}
```

Response

Status

Status: 201 Created

JSON

```
{
  "name": "My attribute template",
  "description": "Attribute template for Walls",
  "elementtypes": [
    {
      "type": "Wall",
      "category": "/1/10/1/",
      "name": "ID_ArchWall",
      "ifcType": "ID_IFCWallStandardCase",
      "id": "10074eef-9418-4d64-9c6d-23932835a7f1"
    }
  ],
  "groups": [
    {
      "id": "960005e0-c24b-44c1-a4e7-cc2d7316c1f3",
      "name": "Group 1",
      "description": "One of the top groups",
      "freeattributes": [
        {
          "type": "string",
          "decimal": 0,
          "changeable": 0,
          "id": "06124729-2778-4c16-98d1-9d89e760b195",
          "name": "FireRating",
          "description": ""
        }
      ]
    }
  ],
  {
    "id": "0f2ff22f-070d-4bbd-a67d-d2f47f1737ee",
    "name": "Group 2",
    "groups": [
      {
        "id": "e3a56ecd-3c75-40d3-8de7-fdaalba2eb4f",
        "name": "SubGroup 3",
        "description": "Some sub group",
        "freeattributes": [
          {
            "type": "int",
            "decimal": 0,
            "changeable": 0,
            "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5",
            "name": "LoadBearing",
            "description": ""
          }
        ]
      }
    ]
  }
],
"created": "2016-02-12T07:21:33.43",
"createdby": {
  "id": "7c555899-5a5f-44d1-930e-284930678bed",
  "email": "test@nemetschek.com"
},
"projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285",
"id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Get all the attribute templates that belongs to a team

URL / Resource / JSON Structure

Resource: attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/attributetemplates

Example: https://api-stage.bimplus.net/v2/bimplus/attributetemplates

HTTP Method

GET

Description

Get all the attribute templates that belongs to a team.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON

```
[
  {
    "name": "My attribute template",
    "description": "Attribute template for Walls",
    "elementtypes": [
      {
        "type": "Wall",
        "category": "/1/10/1/",
        "name": "ID_ArchWall",
        "ifcType": "ID_IFCWallStandardCase",
        "id": "10074eef-9418-4d64-9c6d-23932835a7f1"
      }
    ],
    "groups": [
      {
        "id": "960005e0-c24b-44c1-a4e7-cc2d7316c1f3",
        "name": "Group 1",
        "description": "One of the top groups",
        "freeattributes": [
          {
            "type": "string",
            "decimal": 0,
            "changeable": 0,
            "id": "06124729-2778-4c16-98d1-9d89e760b195",
            "name": "FireRating",
            "description": ""
          }
        ]
      }
    ],
    {
      "id": "0f2ff22f-070d-4bbd-a67d-d2f47f1737ee",
      "name": "Group 2",
      "groups": [
        {
          "id": "e3a56ecd-3c75-40d3-8de7-fdaalba2eb4f",
          "name": "SubGroup 3",
          "description": "Some sub group",
          "freeattributes": [
            {
              "type": "int",
              "decimal": 0,
              "changeable": 0,
              "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5",
              "name": "LoadBearing",
              "description": ""
            }
          ]
        }
      ]
    }
  ],
  "created": "2016-02-12T07:21:33.43",
  "createdby": {
    "id": "7c555899-5a5f-44d1-930e-284930678bed",
    "email": "test@nemetschek.com"
  },
  "projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285",
  "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
},
...
]
```

[Get the info about a particular attribute template](#)

URL / Resource / JSON Structure

Resource: attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/attributetemplates/<template_id>

Example: https://api-stage.bimplus.net/v2/bimplus/attributetemplates/3e5c0964-8f28-469b-b176-bcfad48f2eef

HTTP Method

GET

Description

Get the info about a particular attribute template that belongs to a particular team.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON

```
{
  "name": "My attribute template",
  "description": "Attribute template for Walls",
  "elementtypes": [
    {
      "type": "Wall",
      "category": "/1/10/1/",
      "name": "ID_ArchWall",
      "ifcType": "ID_IFCWallStandardCase",
      "id": "10074eef-9418-4d64-9c6d-23932835a7f1"
    }
  ],
  "groups": [
    {
      "id": "960005e0-c24b-44c1-a4e7-cc2d7316c1f3",
      "name": "Group 1",
      "description": "One of the top groups",
      "freeattributes": [
        {
          "type": "string",
          "decimal": 0,
          "changeable": 0,
          "id": "06124729-2778-4c16-98d1-9d89e760b195",
          "name": "FireRating",
          "description": ""
        }
      ]
    }
  ],
  {
    "id": "0f2ff22f-070d-4bbd-a67d-d2f47f1737ee",
    "name": "Group 2",
    "groups": [
      {
        "id": "e3a56ecd-3c75-40d3-8de7-fdaalba2eb4f",
        "name": "SubGroup 3",
        "description": "Some sub group",
        "freeattributes": [
          {
            "type": "int",
            "decimal": 0,
            "changeable": 0,
            "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5",
            "name": "LoadBearing",
            "description": ""
          }
        ]
      }
    ]
  }
],
  "created": "2016-02-12T07:21:33.43",
  "createdby": {
    "id": "7c555899-5a5f-44d1-930e-284930678bed",
    "email": "test@nemetschek.com"
  },
  "changed": "2016-02-12T07:22:51.02",
  "changedby": {
    "id": "7c555899-5a5f-44d1-930e-284930678bed",
    "email": "test@nemetschek.com"
  },
  "projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285",
  "id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Update a particular attribute template

URL / Resource / JSON Structure

Resource: attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/attributetemplates

Example: https://api-stage.bimplus.net/v2/bimplus/attributetemplates/3e5c0964-8f28-469b-b176-bcfad48f2eef

JSON Structure: See [Create attribute template](#)

HTTP Method

PUT

Description

Update a particular attribute template that belongs to a particular team.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

JSON
<pre>{ "name": "My attribute template updated", "description": "Attribute template for Walls", "elementtypes": [{ "id": "10074EEF-9418-4D64-9C6D-23932835A7F1" }], "groups": [{ "name": "Group 1", "description": "One of the top groups", "freeattributes": [{ "id": "06124729-2778-4c16-98d1-9d89e760b195" }] }, { "name": "Group 2", "groups": [{ "name": "SubGroup 3", "description": "Some sub group", "freeattributes": [{ "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5" }] }] }] }, "projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285", }</pre>

Response

Status
Status: 200 OK

JSON

```
{
  "name": "My attribute template updated",
  "description": "Attribute template for Walls",
  "elementtypes": [
    {
      "type": "Wall",
      "category": "/1/10/1/",
      "name": "ID_ArchWall",
      "ifcType": "ID_IFCWallStandardCase",
      "id": "10074eef-9418-4d64-9c6d-23932835a7f1"
    }
  ],
  "groups": [
    {
      "id": "960005e0-c24b-44c1-a4e7-cc2d7316c1f3",
      "name": "Group 1",
      "description": "One of the top groups",
      "freeattributes": [
        {
          "type": "string",
          "decimal": 0,
          "changeable": 0,
          "id": "06124729-2778-4c16-98d1-9d89e760b195",
          "name": "FireRating",
          "description": ""
        }
      ]
    }
  ],
  {
    "id": "0f2ff22f-070d-4bbd-a67d-d2f47f1737ee",
    "name": "Group 2",
    "groups": [
      {
        "id": "e3a56ecd-3c75-40d3-8de7-fdaalba2eb4f",
        "name": "SubGroup 3",
        "description": "Some sub group",
        "freeattributes": [
          {
            "type": "int",
            "decimal": 0,
            "changeable": 0,
            "id": "665b0658-e64f-4ce2-91b2-c5d152b177d5",
            "name": "LoadBearing",
            "description": ""
          }
        ]
      }
    ]
  }
],
"created": "2016-02-12T07:21:33.43",
"createdby": {
  "id": "7c555899-5a5f-44d1-930e-284930678bed",
  "email": "test@nemetschek.com"
},
"changed": "2016-02-12T07:22:51.02",
"changedby": {
  "id": "7c555899-5a5f-44d1-930e-284930678bed",
  "email": "test@nemetschek.com"
},
"projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285",
"id": "49d13da3-2acf-4f0b-b667-40fc0197585f"
}
```

Delete a particular attribute template

URL / Resource / JSON Structure

Resource: attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/attributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/attributetemplates/3e5c0964-8f28-469b-b176-bcfad48f2eef>

HTTP Method

DELETE

Description

Deletes the specific attribute template.

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

Retrieve a list of element-types to which an attribute template can be assigned

URL / Resource / JSON Structure

Resource: element-types/attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/attributetemplates

Example: <https://api-stage.bimplus.net/v2/bimplus/element-types/attributetemplates?filter=type=Wall>

Filter: When filter is defined the API will return only element-types which Type contains requested sub-string, e.g. if filter is "type=Wall" will be returned all element-types which Type contains substring "Wall". Like Wall, CurtainWall, WallCovering, StructuralAnalysisWall, etc.

Optional query parameters

Name	Type	Default value	Description
filter	string		When filter "type=Wall" is defined the API will return only element-types which Type contains requested sub-string, e.g. if filter is "type=Wall" will be returned all element-types which Type contains substring "Wall". Like Wall, CurtainWall, WallCovering, StructuralAnalysisWall, etc.

HTTP Method

GET

Description

Retrieve a list of element-types to which an attribute template can be assigned. Please remember that attribute template can't be assigned to all element-types (i.e v2/<team_slug>/element-types)

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON
<pre>[{ "type": "BuildingObject", "category": "/1/", "name": "ID_BuildingModel", "ifcType": null, "id": "0f106af0-a919-44c5-b211-15bd5ef620b6" }, { "type": "BuildingElement", "category": "/1/10/", "name": "ID_Bauteilobjekte", "ifcType": null, "id": "34c606d8-77aa-4c1c-a19d-cf9cf222e6c5" }, { "type": "Wall", "category": "/1/10/1/", "name": "ID_ArchWall", "ifcType": "ID_IFCWallStandardCase", "id": "10074eef-9418-4d64-9c6d-23932835a7f1" }, ]</pre>

Get the list of attribute templates that belongs to an element-type

URL / Resource / JSON Structure

Resource: element-types/<element_id>/attributetemplates

URL: https://api-stage.bimplus.net/v2/<team_slug>/element-types/<element_id>/attributetemplates

Example: https://api-stage.bimplus.net/v2/bimplus/element-types/10074eef-9418-4d64-9c6d-23932835a7f1/attributetemplates

Optional query parameters

Name	Type	Default value	Description
attributes	string (bool)	false	By default the response doesn't include the free attribute list in returned attribute templates. To include the free attribute list, please use the query parameter attributes=true. e.g. https://api-stage.bimplus.net/v2/bimplus/element-types/10074eef-9418-4d64-9c6d-23932835a7f1/attributetemplates?attributes=true
projectattributetemplate	string (Guid)	undefined	By default in the response are included attribute templates from all project attribute templates defined in team which belongs to requested element-type. To be included only attribute templates which belongs to certain project attribute template, please use the projectAttributeTemplate query parameter. e.g. https://api-stage.bimplus.net/v2/bimplus/element-types/10074eef-9418-4d64-9c6d-23932835a7f1/attributetemplates?projectattributetemplate=bb6ccf01-75f1-4581-842a-95bbe71f7285

HTTP Method

GET

Description

Get all the free attribute groups from the Bimplus DB

Request

Headers
Authorization: BimPlus 9c1874a62c974dcfa75e0132c423a088 Content-Type: application/json

Response

Status
Status: 200 OK

JSON
<pre>[{ "name": "Element (default Property set)", "description": "", "created": "2015-10-29T00:13:30.393", "createdby": { "id": "71e0ac3b-fa49-e540-ac2f-8caff3dd72ed", "email": "jayaraj.purushothaman@gmail.com" }, "changed": "2015-10-29T00:13:30.393", "changedby": { "id": "71e0ac3b-fa49-e540-ac2f-8caff3dd72ed", "email": "jayaraj.purushothaman@gmail.com" }, "projectAttributeTemplate": "bb6ccf01-75f1-4581-842a-95bbe71f7285", "id": "3f025e20-1c11-42b1-ad3b-0f6cc6fc03af" }]</pre>

projectattributetemplate