

## 4.29 Bimplus Windows Explorer related Services

### Bimplus Windows Explorer related Services

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### Bimplus Windows Explorer related Services

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Bimplus Windows Explorer is the Windows desktop application AEC professionals and BIM managers use to upload, manage and analyze building information on the Bimplus platform for use by all contributors to your construction project. For more information please see [here](#)

Create a new objectview

#### URL / Resource / JSON Structure

**Resource:** objectlist

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>objectlist](https://api-stage.bimplus.net/v2/<team_slug>objectlist)

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

#### JSON Structure:

Name	Mandatory / Optional	Type	Description
elementsId	mandatory	object	List of elements id
columnsList	mandatory	object	List of columns
tableName	mandatory	string	Name of the resource
columnName	optional	string	Name of the property
freeAttribId	optional	string(guid)	Id of the used free attribute

#### HTTP Method

POST

#### Description

Create a new objectview

#### Request

##### Headers

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

## JSON

```
{
  "elementsId": [
    "8506156B-F965-4D51-9DD1-01D0C300601E",
    "CF9E6219-2962-4F21-B1DD-01DC4AB902E9",
    "1A8BF9BF-C912-4E2C-A633-F9BDEF46EB91"
  ],
  "columnsList": [
    {
      "tableName": "general",
      "columnName": "Name",
      "freeAttribId": null
    },
    {
      "tableName": "general",
      "columnName": "Description",
      "freeAttribId": null
    },
    {
      "tableName": "quantity",
      "columnName": "Length",
      "freeAttribId": null
    },
    {
      "tableName": "quantity",
      "columnName": "Height",
      "freeAttribId": null
    },
    {
      "tableName": "element",
      "columnName": "ElementTyp",
      "freeAttribId": null
    },
    {
      "tableName": "element",
      "columnName": "DivisionID",
      "freeAttribId": null
    },
    {
      "tableName": "stringattrib",
      "columnName": "",
      "freeAttribId": "C3071F78-2ACA-46D9-9883-13F5184EC499"
    },
    {
      "tableName": "doubleattrib",
      "columnName": "",
      "freeAttribId": "8D3D9DD5-C998-465B-B13E-87901C90F3BC"
    }
  ]
}
```

## Response

### Status

Status: 201 CREATED

## JSON

```
{
  "elementsId": [
    "8506156B-F965-4D51-9DD1-01D0C300601E",
    "CF9E6219-2962-4F21-B1DD-01DC4AB902E9",
    "1A8BF9BF-C912-4E2C-A633-F9BDEF46EB91"
  ],
  "columnsList": [
    {
      "tableName": "general",
      "columnName": "Name",
      "freeAttribId": null
    },
    {
      "tableName": "general",
      "columnName": "Description",
      "freeAttribId": null
    },
    {
      "tableName": "quantity",
      "columnName": "Length",
      "freeAttribId": null
    },
    {
      "tableName": "quantity",
      "columnName": "Height",
      "freeAttribId": null
    },
    {
      "tableName": "element",
      "columnName": "ElementType",
      "freeAttribId": null
    },
    {
      "tableName": "element",
      "columnName": "DivisionID",
      "freeAttribId": null
    },
    {
      "tableName": "stringattrib",
      "columnName": "",
      "freeAttribId": "C3071F78-2ACA-46D9-9883-13F5184EC499"
    },
    {
      "tableName": "doubleattrib",
      "columnName": "",
      "freeAttribId": "8D3D9DD5-C998-465B-B13E-87901C90F3BC"
    }
  ]
}
```

Get the list of target objects(objectviews) which will be populated in the "Object Navigator List"

### URL / Resource / JSON Structure

**Resource:** objectview

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/objectviews](https://api-stage.bimplus.net/v2/<team_slug>/objectviews)

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

### HTTP Method

GET

### Description

Get the list of target objectviews which will be populated in the "Object Navigator List"

#### Request

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

#### Response

Status
Status: 200 OK

#### JSON

```
[
  {
    "viewname": "onProjectElements_Building",
    "resourcenameid": "Category.ElementBuilding",
    "iconid": "IconArchitectureWall",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": 21
  },
  {
    "viewname": "onProjectElements_Room",
    "resourcenameid": "Category.ElementRoom",
    "iconid": "IconArchitectureRoom",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": 22
  },
  {
    "viewname": "onProjectElements_Finish",
    "resourcenameid": "Category.ElementFinish",
    "iconid": "IconRoofLayer",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": 23
  },
  {
    "viewname": "onProjectElements_Reinforcement",
    "resourcenameid": "Category.Reinforcement",
    "iconid": "IconReinforcement",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": 24
  },
  {
    "viewname": "onProjectElements_Mesh",
    "resourcenameid": "Category.Mesh",
    "iconid": "IconMesh",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": 25
  },
  {
    "viewname": "onProjectElements_Precast",
    "resourcenameid": "Category.PrecastElement",
```

```

        "iconid": "IconPrecastUnit",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 27
    },
    {
        "viewname": "onProjectElements_PrecastTimber",
        "resourcenamewidth": "Category.ElementPrecastTimber",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 28
    },
    {
        "viewname": "onProjectElements_MEP",
        "resourcenamewidth": "Category.ElementMEP",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 29
    },
    {
        "viewname": "onProjectElements_Plumbing",
        "resourcenamewidth": "Category.ElementPlumbing",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 30
    },
    {
        "viewname": "onProjectElements_Electricity",
        "resourcenamewidth": "Category.ElementElectricity",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 32
    },
    {
        "viewname": "onProjectElements_Mechanical",
        "resourcenamewidth": "Category.ElementMechanical",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 34
    },
    {
        "viewname": "onProjectElements_Construction",
        "resourcenamewidth": "Category.ElementConstruction",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 35
    },
    {
        "viewname": "onProjectElements_Terrain",
        "resourcenamewidth": "Category.ElementTerrain",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 36
    },
    {
        "viewname": "onProjectElements_Inventory",

```

```

        "resourcenameid": "Category.ElementInventory",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 37
    },
    {
        "viewname": "onProjectElements_Structural",
        "resourcenameid": "Category.ElementStructural",
        "iconid": "IconFolder",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Element",
        "ordernr": 38
    },
    {
        "viewname": "onProjectElements_Clash",
        "resourcenameid": "Category.Collision",
        "iconid": "IconCollision",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Collision",
        "ordernr": 39
    },
    {
        "viewname": "onProjectIssues",
        "resourcenameid": "Category.Issue",
        "iconid": "IconIssue",
        "sortcolumns": null,
        "projectfilter": null,
        "objectname": "Issue",
        "ordernr": 41
    }
}
]

```

Get information about an "Object Navigator" item (objectview)

#### URL / Resource / JSON Structure

**Resource:** objectviews/<objectview\_name>

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/objectviews/<objectview\\_name>](https://api-stage.bimplus.net/v2/<team_slug>/objectviews/<objectview_name>)

**Example:** [https://api-stage.bimplus.net/v2/bimplus/objectviews/onProjectElements\\_Building](https://api-stage.bimplus.net/v2/bimplus/objectviews/onProjectElements_Building)

#### HTTP Method

GET

#### Description

Get information about a particular objectview

#### Request

##### Headers

```

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

```

#### Response

### Status

Status: 200 OK

### JSON

```
[
  {
    "viewname": "onProjectElements_Building",
    "resourceid": "Category.ElementBuilding",
    "iconid": "IconArchitectureWall",
    "sortcolumns": null,
    "projectfilter": null,
    "objectname": "Element",
    "ordernr": "21"
  }
]
```

Get the properties of the object (objectview)

#### URL / Resource / JSON Structure

**Resource:** objectviews/<objectview\_name>/properties

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/objectviews/<objectview\\_name>/properties](https://api-stage.bimplus.net/v2/<team_slug>/objectviews/<objectview_name>/properties)

**Example:** [https://api-stage.bimplus.net/v2/bimplus/objectviews/onProjectElements\\_Building/properties](https://api-stage.bimplus.net/v2/bimplus/objectviews/onProjectElements_Building/properties)

#### HTTP Method

GET

#### Description

Get the properties of a particular objectview

#### Request

##### Headers

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

#### Response

### Status

Status: 200 OK

### JSON

```
[
  {
    "name": "ObjectID",
    "ordernr": 1,
    "datatype": "uniqueidentifier",
    "isdefault": null,
    "categorynameid": null,
    "resourceid": null,
    "proporder": null,
    "converter": null,
    "browsable": "false",
  }
]
```

```

        "iconid": null,
        "filterable": null
    },
    {
        "name": "Nr",
        "ordernr": 2,
        "datatype": "int",
        "isdefault": null,
        "categorynameid": "Category.General",
        "resourcenamenameid": null,
        "proporder": null,
        "converter": null,
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Name",
        "ordernr": 3,
        "datatype": "nvarchar",
        "isdefault": "true",
        "categorynameid": "Category.General",
        "resourcenamenameid": "Name",
        "proporder": null,
        "converter": "Converter_PPName",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Description",
        "ordernr": 4,
        "datatype": "nvarchar",
        "isdefault": "true",
        "categorynameid": "Category.General",
        "resourcenamenameid": "Description",
        "proporder": null,
        "converter": null,
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "DivisionID",
        "ordernr": 5,
        "datatype": "uniqueidentifier",
        "isdefault": null,
        "categorynameid": null,
        "resourcenamenameid": null,
        "proporder": null,
        "converter": null,
        "browsable": "false",
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Division",
        "ordernr": 6,
        "datatype": "nvarchar",
        "isdefault": "true",
        "categorynameid": "Category.General",
        "resourcenamenameid": "Property.Model",
        "proporder": null,
        "converter": null,
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "ModelType",
        "ordernr": 7,

```



```

        "datatype": "uniqueidentifier",
        "isdefault": "true",
        "categorynameid": "Category.General",
        "resourcenamenameid": "Property.Discipline",
        "proporder": null,
        "converter": "Converter_ElementType",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "ElementType",
        "ordernr": 8,
        "datatype": "uniqueidentifier",
        "isdefault": "true",
        "categorynameid": "Category.General",
        "resourcenamenameid": "Type",
        "proporder": null,
        "converter": "Converter_ElementType",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Weight",
        "ordernr": 9,
        "datatype": "float",
        "isdefault": null,
        "categorynameid": "Category.Geometry",
        "resourcenamenameid": "Mass",
        "proporder": null,
        "converter": "Converter_Mass",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Volume",
        "ordernr": 10,
        "datatype": "float",
        "isdefault": null,
        "categorynameid": "Category.Geometry",
        "resourcenamenameid": "Volume",
        "proporder": null,
        "converter": "Converter_Volume",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Area",
        "ordernr": 11,
        "datatype": "float",
        "isdefault": null,
        "categorynameid": "Category.Geometry",
        "resourcenamenameid": "Area",
        "proporder": null,
        "converter": "Converter_Area",
        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Length",
        "ordernr": 12,
        "datatype": "float",
        "isdefault": "true",
        "categorynameid": "Category.Geometry",
        "resourcenamenameid": "Element.Geometry.Length",
        "proporder": null,
        "converter": "Converter_Length",
    }

```

```

        "browsable": null,
        "iconid": null,
        "filterable": null
    },
    {
        "name": "Width",
        "ordernr": 13,
        "datatype": "float",
        "isdefault": "true",
        "categorynameid": "Category.Geometry",
        "resourcenamewidth": "Element.Geometry.Width",
        "proporder": null,
        "converter": "Converter_Length",
        "browsable": null,
        "iconid": null,
        "filterable": null
    }
]

```

Get the required object's(objectview's) details from input objectview list reference

#### URL / Resource / JSON Structure

**Resource:** objectviews/content

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/objectviews/content](https://api-stage.bimplus.net/v2/<team_slug>/objectviews/content)

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

#### JSON Structure:

Name	Mandatory / Optional	Type	Description
name	mandatory	string	Name of the resource/objectview
elementsguid	optional	object	List of object id's whose details has to be found
filter	optional	object	The properties that could be used as filters

#### HTTP Method

POST

#### Description

Get the required objectview's details from input object list reference

#### Request

##### Headers

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

## JSON

```
{
  "name": "onProjectElements_Building",
  "elementsguid": [
    "1F3E2F56-A94F-4486-97F5-21ACDF7A76AE",
    "54978C4C-B18B-4420-819D-405234FC11B4",
    "EB0472BE-1353-4E47-BE76-875924E0586F"
  ],
  "filter": [
    "ObjectId",
    "DivisionId",
    "Name",
    "Width",
    "ElementType"
  ]
}
```

## Response

### Status

Status: 200 OK

## JSON

```
[
  {
    "objectid": "1f3e2f56-a94f-4486-97f5-21acdf7a76ae",
    "divisionid": "06a78b8f-c692-46d1-a16e-f878b6a86f17",
    "name": "Wall",
    "elementtyp": "10074eef-9418-4d64-9c6d-23932835a7f1",
    "width": 300
  },
  {
    "objectid": "54978c4c-b18b-4420-819d-405234fc11b4",
    "divisionid": "06a78b8f-c692-46d1-a16e-f878b6a86f17",
    "name": "Wall",
    "elementtyp": "10074eef-9418-4d64-9c6d-23932835a7f1",
    "width": 300
  },
  {
    "objectid": "eb0472be-1353-4e47-be76-875924e0586f",
    "divisionid": "06a78b8f-c692-46d1-a16e-f878b6a86f17",
    "name": "Wall",
    "elementtyp": "10074eef-9418-4d64-9c6d-23932835a7f1",
    "width": 300
  }
]
```

Delete the object view

### URL / Resource / JSON Structure

**Resource:** objectviews/<objectview\_id>

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/objectviews/<objectview\\_id>](https://api-stage.bimplus.net/v2/<team_slug>/objectviews/<objectview_id>)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/objectviews/0d2ce2cc-3588-45d6-a59a-f6b89ebed34e>

HTTP Method

DELETE

Description

Deletes a specified user defined view(object view).

Request

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

Response

Status
Status: 200 OK

Create a new hierarchy

URL / Resource / JSON Structure

Resource: usersettings/hierarchies/<hierarchy\_id>

URL: [https://api-stage.bimplus.net/v2/<team\\_slug>/hierarchies/<hierarchy\\_id>](https://api-stage.bimplus.net/v2/<team_slug>/hierarchies/<hierarchy_id>)

Example: <https://api-stage.bimplus.net/v2/bimplus/hierarchies/aaaaa213-1a6e-4aa2-b032-d5aeb8f31c97>

JSON Structure:

Name	Mandatory / Optional	Type	Description
moduleId	mandatory	string(guid)	Guid of the module
objectId	mandatory	string(guid)	Guid of the object type
userId	mandatory	string(guid)	Guid of the user
category	optional	string	Name of the category(default is "ObjectNavigator")
oneExtendedData	mandatory	object	Additional information
valueKey	mandatory	string	key name
valueName	mandatory	string	Value of the key
value	mandatory	string	Content of stored value
isDefault	optional	boolean	Whether it is the default value
dataSmallInt	optional	integer	Additional info about the value

HTTP Method

POST

Description

Create a new hierarchy

Request

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

## JSON

```
{
  "objectId": "1F15C447-E511-4FC1-940B-13639F973C52",
  "moduleId": "3e3blae3-8955-4c4e-803e-2d56a4a8e50d",
  "userId": "A612E213-1A6E-4AA2-B032-D5AEB8F31C97",
  "category": "ObjectNavigator",
  "oneExtendedData": {
    "valueKey": "[onProjectElements_Building]onProjectElements_Building",
    "valueName": "test xxx",
    "value": "[I]Name[I]Length[F][0]<1700[2]>=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",
    "isDefault": "0",
    "dataSmallInt": "1"
  }
}
```

## Response

### Status

Status: 200 OK

## JSON

```
{
  "objectId": "1F15C447-E511-4FC1-940B-13639F973C52",
  "moduleId": "3e3blae3-8955-4c4e-803e-2d56a4a8e50d",
  "userId": "A612E213-1A6E-4AA2-B032-D5AEB8F31C97",
  "category": "ObjectNavigator",
  "oneExtendedData": {
    "valueKey": "[onProjectElements_Building]onProjectElements_Building",
    "valueName": "test xxx",
    "value": "[I]Name[I]Length[F][0]<1700[2]>=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",
    "isDefault": "0",
    "dataSmallInt": "1"
  }
}
```

Create a list of hierarchies

### URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies?\$operation=createlist

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies?\\$operation=createlist](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies?$operation=createlist)

**Example:** [https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?\\$operation=createlist](https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?$operation=createlist)

### JSON Structure:

Name	Mandatory / Optional	Type	Description
moduleId	mandatory	string(guid)	Guid of the module
objectId	mandatory	string(guid)	Guid of the object type
userId	mandatory	string(guid)	Guid of the user
category	optional	string	Name of the category(default is "ObjectNavigator")
oneExtendedData	mandatory	object	Additional information
valueKey	mandatory	string	key name
valueName	mandatory	string	Value of the key
value	mandatory	string	Content of stored value

isDefault	optional	boolean	Whether it is the default value
dataSmallInt	optional	integer	Additional info about the value

**HTTP Method**

POST

**Description**

Create a new hierarchy

**Request**

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

<b>JSON</b>
<pre>{   "objectId": "1F15C447-E511-4FC1-940B-13639F973C52",   "moduleId": "3e3blae3-8955-4c4e-803e-2d56a4a8e50d",   "userId": "A612E213-1A6E-4AA2-B032-D5AEB8F31C97",   "category": "ObjectNavigator",   "extendedDataList": [     {       "userSettingId": "1FABF447-E511-4FC1-940B-D5AEB8F31C97",       "valueKey": "[onProjectElements_Building]onProjectElements_Building",       "valueName": "pokus 001",       "value": "[I]Name[I]Length[F][0]&lt;7777[2]&gt;=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",       "isDefault": "false",       "dataSmallInt": "1"     },     {       "userSettingId": "53AB1047-E611-4FC1-940B-D5AEB8F31012",       "valueKey": "[onProjectElements_Building]onProjectElements_Building",       "valueName": "pokus 002",       "value": "[I]Name[I]Length[F][0]&lt;2222[2]&gt;=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",       "isDefault": "false",       "dataSmallInt": "1"     }   ] }</pre>

**Response**

<b>Status</b>
Status: 200 OK

## JSON

```
{
  "objectId": "1F15C447-E511-4FC1-940B-13639F973C52",
  "moduleId": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
  "userId": "A612E213-1A6E-4AA2-B032-D5AEB8F31C97",
  "category": "ObjectNavigator",
  "extendedDataList": [
    {
      "userSettingId": "1FABF447-E511-4FC1-940B-D5AEB8F31C97",
      "valueKey": "[onProjectElements_Building]onProjectElements_Building",
      "valueName": "pokus 001",
      "value": "[I]Name[I]Length[F][0]<7777[2]>=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",
      "isDefault": "false",
      "dataSmallInt": "1"
    },
    {
      "userSettingId": "53AB1047-E611-4FC1-940B-D5AEB8F31012",
      "valueKey": "[onProjectElements_Building]onProjectElements_Building",
      "valueName": "pokus 002",
      "value": "[I]Name[I]Length[F][0]<2222[2]>=415[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND",
      "isDefault": "false",
      "dataSmallInt": "1"
    }
  ]
}
```

Create a complete new hierarchy structure

### URL / Resource / JSON Structure

**Resource:** services/applyhierarchy

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/services/applyhierarchy](https://api-stage.bimplus.net/v2/<team_slug>/services/applyhierarchy)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/services/applyhierarchy>

### JSON Structure:

Name	Mandatory / Optional	Type	Description
projectId	mandatory	string(guid)	Id of the project for which the structure will be created
userSettingId	mandatory	string(guid)	Id of the user settings required for the hierarchy definition
hierarchyDefinition	mandatory	string	Definition of the hierarchy
name	mandatory	string	Name of the hierarchy
description	optional	string	Description of the hierarchy
structureType	optional	string	Structure type
elementsId	optional	Array of strings(guid)	List of elements guid connected to the hierarchy structure

### HTTP Method

POST

### Description

Create a complete new hierarchy structure

### Request

## Headers

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

## JSON

```
{
  "runAsync": "false",
  "applyHierarchy": {
    "projectId": "01c52808-6561-47f6-833e-b62d05da8a8e",
    "hierarchyDefinition": "[I]tabAttribGeneral.Name[I]tabAttribGeometry.Length[I] tabAttribGeometry.Width [I][8807e401-6e3c-4536-88e1-e834d4de745d].Value",
    "name": "Navigator 1",
    "description": "Test for HierarchyNavigator",
    "structureType": "CostStructure",
    "elementsId": [
      "803312c0-26b6-49be-a607-4319f1b32383",
      "51FEF0FA-437B-4410-B9BE-39B9E15D440F",
      "71D472FD-96A5-4174-8A5A-460DEB8E88E1"
    ]
  }
}
```

## Response

### Status

Status: 201 CREATED

## JSON

```
{
  "applyHierarchy": {
    "projectId": "01c52808-6561-47f6-833e-b62d05da8a8e",
    "hierarchyDefinition": "[I]tabAttribGeneral.Name[I]tabAttribGeometry.Length[I]tabAttribGeometry.Width [I][8807e401-6e3c-4536-88e1-e834d4de745d].Value",
    "name": "Navigator 1",
    "description": "Test for HierarchyNavigator",
    "structureType": "CostStructure",
    "elementsId": [
      "803312c0-26b6-49be-a607-4319f1b32383",
      "51fef0fa-437b-4410-b9be-39b9e15d440f",
      "71d472fd-96a5-4174-8a5a-460deb8e88e1"
    ],
    "result": {
      "projectId": "01c52808-6561-47f6-833e-b62d05da8a8e",
      "parentId": "01c52808-6561-47f6-833e-b62d05da8a8e",
      "name": "Navigator 1",
      "description": "Test for HierarchyNavigator",
      "type": "CostStructure",
      "nr": 45,
      "color": 0,
      "id": "dd71620e-af8f-4496-88a5-cc2be1f1747d"
    }
  },
  "runAsync": false
}
```

Get all the user hierarchies using the user & module information



## URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies?moduleId=xxx;userId=yyy;category=zzz

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies?moduleId=xxx;userId=yyy;category=zzz](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies?moduleId=xxx;userId=yyy;category=zzz)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?moduleId=3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d;userId=a612e213-1a6e-4aa2-b032-d5aeb8f31c97;category=ObjectNavigator>

### JSON Structure:

Name	Mandatory / Optional	Type	Description
moduleId	mandatory	guid	Id of the module
userid	mandatory	guid	Id of the user
category	optional	string	category name (default category is "ObjectNavigator")

## HTTP Method

GET

### Description

Get all the user hierarchies using the user & module information

### Request

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

### Response

Status
Status: 200 OK

## JSON

```
[
  {
    "attribusersettingid": "511d2c35-d7a6-4e76-82f0-172a64c322b6",
    "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
    "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
    "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
    "category": "ObjectNavigator",
    "isdefault": false,
    "valuekey": "[onProjectElements_Building]",
    "valuename": "onProjectElements_Building",
    "value": "Name[I]Description[I]Division[I]ModelType[I]ElementTyp[I]Length[I]Width",
    "datasmallint": null,
    "revision": null
  },
  {
    "attribusersettingid": "909c9802-a339-4a60-8fff-64ea495f6136",
    "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
    "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
    "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
    "category": "ObjectNavigator",
    "isdefault": false,
    "valuekey": "[onProjectElements_Electricity]",
    "valuename": "onProjectElements_Electricity",
    "value": "Name[I]Description[I]Division[I]ModelType[I]ElementTyp[I]Length[I]Width",
    "datasmallint": null,
    "revision": null
  },
  {
    "attribusersettingid": "e4ca5278-98da-4809-9582-6815bbab2200",
    "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
    "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
    "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
    "category": "ObjectNavigator",
    "isdefault": false,
    "valuekey": "[onProjectElements_MEP]",
    "valuename": "onProjectElements_MEP",
    "value": "Name[I]Description[I]Division[I]ModelType[I]ElementTyp[I]Weight[I]Length[I]Width",
    "datasmallint": 0,
    "revision": null
  }
]
```

Get the details of a hierarchy

### URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies/hierarchy\_id<

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies/hierarchy\\_id](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies/hierarchy_id)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies/B39AD364-F049-42E3-A936-3FD2871EB4D4>

### HTTP Method

GET

### Description

Get information about a particular hierarchy

### Request

### Headers

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

### Response

#### Status

Status: 200 OK

#### JSON

```
{
  "attribusersettingid": "b39ad364-f049-42e3-a936-3fd2871eb4d4",
  "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
  "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
  "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
  "category": "ObjectNavigator",
  "isdefault": false,
  "valuekey": "[onProjectElements_Building]onProjectElements_Building",
  "valuename": "Hierarchie Nr.1",
  "value": "[I]Name[I]Length[F][0]<3000[2]>=215[4]=0[10]AND[11]AND[12]AND[13]AND[14]AND[I]Width[F][0]<1000[2]>400[10]AND[11]AND[12]AND[13]AND[14]AND",
  "datasmallint": 1,
  "revision": null
}
```

Get details about a list of hierarchies

#### URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies?\$operation=getlist

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies?\\$operation=getlist](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies?$operation=getlist)

**Example:** [https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?\\$operation=getlist](https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?$operation=getlist)

#### JSON Structure:

Name	Mandatory / Optional	Type	Description
userSettingsListId	mandatory	object	List of hierarchy ids

#### HTTP Method

GET

#### Description

Get details about a list of hierarchies

#### Request

#### Headers

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

## JSON

```
{
  "userSettingsListId": [
    "AAAAA213-1111-4AA2-B032-D5AEB8F31C97",
    "AAAAA213-2222-4AA2-B032-D5AEB8F31C97"
  ]
}
```

## Response

### Status

Status: 200 OK

## JSON

```
[
  {
    "attribusersettingid": "511d2c35-d7a6-4e76-82f0-172a64c322b6",
    "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
    "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
    "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
    "category": "ObjectNavigator",
    "isdefault": false,
    "valuekey": "[onProjectElements_Building]",
    "valuename": "onProjectElements_Building",
    "value": "Name[I]Description[I]Division[I]ModelType[I]ElementTyp[I]Length[I]Width",
    "datasmallint": null,
    "revision": null
  },
  {
    "attribusersettingid": "909c9802-a339-4a60-8fff-64ea495f6136",
    "objectid": "1f15c447-e511-4fc1-940b-13639f973c52",
    "module": "3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d",
    "userid": "a612e213-1a6e-4aa2-b032-d5aeb8f31c97",
    "category": "ObjectNavigator",
    "isdefault": false,
    "valuekey": "[onProjectElements_Electricity]",
    "valuename": "onProjectElements_Electricity",
    "value": "Name[I]Description[I]Division[I]ModelType[I]ElementTyp[I]Length[I]Width",
    "datasmallint": null,
    "revision": null
  }
]
```

Delete the hierarchy

### URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies/<hierarchy\_id>

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies/<hierarchy\\_id>](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies/<hierarchy_id>)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies/0d2ce2cc-3588-45d6-a59a-f6b89ebed34e>

### HTTP Method

DELETE

### Description

Deletes a specific hierarchy.

Request

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

Response

Status
Status: 200 OK

Delete the list of hierarchies

URL / Resource / JSON Structure

Resource: usersettings/hierarchies?\$operation=deletelist

URL: [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies?\\$operation=deletelist](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies?$operation=deletelist)

Example: [https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?\\$operation=deletelist](https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?$operation=deletelist)

JSON Structure:

Name	Mandatory / Optional	Type	Description
userSettingsListId	mandatory	object	List of hierarchy ids that has to be deleted

HTTP Method

DELETE

Description

Deletes the list of hierarchies as specified in the request

Request

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

JSON
<pre>{   "userSettingsListId": [     "AAAAA213-1111-4AA2-B032-D5AEB8F31C97",     "AAAAA213-2222-4AA2-B032-D5AEB8F31C97"   ] }</pre>

Response

Status
Status: 200 OK

Delete all the hierarchies filtered by additional info

### URL / Resource / JSON Structure

**Resource:** usersettings/hierarchies?moduleId=xxx;userId=<yyy>;category=<name>;objectId=<zzz>

**URL:** [https://api-stage.bimplus.net/v2/<team\\_slug>/usersettings/hierarchies?moduleId=<xxx>;userId=<yyy>;category=<name>;objectId=<zzz>](https://api-stage.bimplus.net/v2/<team_slug>/usersettings/hierarchies?moduleId=<xxx>;userId=<yyy>;category=<name>;objectId=<zzz>)

**Example:** <https://api-stage.bimplus.net/v2/bimplus/usersettings/hierarchies?moduleId=3e3b1ae3-8955-4c4e-803e-2d56a4a8e50d;userId=a612e213-1a6e-4aa2-b032-d5aeb8f31c97;category=ObjectNavigator;objectId=1F15C447-E511-4FC1-940B-13639F973C52>

### JSON Structure:

Name	Mandatory / Optional	Type	Description
moduleId	mandatory	string(guid)	Id of the module
userId	mandatory	string(guid)	Id of the user
objectId	optional	string(guid)	Id of the object (default is "1F15C447-E511-4FC1-940B-13639F973C52")
Category	optional	string	Name of the category (default is "ObjectNavigator")

### HTTP Method

DELETE

### Description

Deletes all the hierarchies filtered by additional info specified as query strings.

### Request

#### Headers

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

#### JSON

```
{
  "userSettingsListId": [
    "AAAAA213-1111-4AA2-B032-D5AEB8F31C97",
    "AAAAA213-2222-4AA2-B032-D5AEB8F31C97"
  ]
}
```

### Response

#### Status

Status: 200 OK