

4.34 Export Object Service

Export Object Service

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Export Object Service

Export Objects are the primary components to help better organize full or partial exports of the project objects.

Please see the detailed structure of the issue in the [Object Model](#)

Create a new export object

URL / Resource / JSON Structure

Resource: projects/<project_id>/exportobjects

URL: https://api-stage.bimplus.net/v2/<team_slug>/projects/<project_id>/exportobjects

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/ceac9b1e-31d9-4c5f-bd78-f909767b7b01/exportobjects>

JSON Structure:

Optionally there is an opportunity to mark export object validity just for one use with the 'singleuse' (default is null or false) attribute. The created export object for a single use ("singleuse": true) attribute selection object will be automatically deleted when the export object id is used on any of the API services where it is possible to use a export object id.

Name	Mandatory / Optional	Type	Description
id	optional	string (guid)	Id of the export object
projectId	optional	string (guid)	The id of the project the export object is associated
name	mandatory	string	Name of the export object
description	optional	string	Description of the export object
selection	optional	Object	Selection object, see json structure below
singleuse	optional	bool	Validity just for one use

JSON Structure of the Selection object:

Name	Mandatory / Optional	Type	Description
projectId	mandatory	string (guid)	The id of the project the export object is associated
type	mandatory	string	Type of Selection object which define selection of objects to be exported from associated model. The type can be one of following values : "Model", "Elements", "Topology", "Filter", "Structure"
divisionId	mandatory	string (guid)	Division Id (Model Id) of the exported objects. This is mandatory for selection type "Model" e.g.: selection of export object "selection" : { "modelId":"GUID","type":"Model" }
elements	optional	Object	This object is mandatory for Selection type - "Elements" e.g.: selection of export object "selection" : { "modelId":"GUID","type":"Elements","elements":[{"GUID","GUID",...}]}
topology	optional	Object	This object is mandatory for Selection type - "Topology" e.g.: details see in request section
filter	optional	Object	This object is mandatory for Selection type - "Filter" e.g. json of selection object: "selection" : { "modelId":"GUID","type":"Filter","filter":{"filterId":"GUID", "nodeInfoList":[{"node list text1", "node list text2", ...}]}}

structure	optional	Object	This object is mandatory for Selection type - "Structure" e.g. json of selection object: "selection" : {"modelId":"GUID","type":"Structure","structure":{"variantTypeId":"GUID", "structuresList":["GUID","GUID", ...]}}
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HTTP Method

POST

Description

Creates a new export object

Request

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

JSON

```
{
  "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
  "name": "Project Selection 2",
  "description": "partial selection of the project",
  "singleuse": false,
  "selection": {
    "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
    "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
    "type": "Topology",
    "elements": null,
    "topology": {
      "camera": null,
      "topology": [
        {
          "id": "79de2e39-2dab-4698-81b3-d47d47baf5a7",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "81da639e-213d-4b1e-b390-0f4a6dd89dda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "1bf9d9c6-d1e8-476c-ada2-c1826e94cdda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "8b99a203-a2c6-4ac9-82ff-a04d1485239d",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "d93ffea5-1def-462a-9085-c626f7bedfc0",
          "visible": false,
          "opaque": false,
          "opacity": 0
        }
      ],
      "layers": [
        {
          "revision": 0,
          "id": "0f106af0-a919-44c5-b211-15bd5ef620b6",
          "name": null,
          "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
          "divisionName": null,
          "visible": false,
          "opaque": false,
          "opacity": 0
        }
      ]
    },
    "filter": null,
    "structure": null
  }
}
```

Response

Status
Status: 201 Created

JSON

```

{
  "id": "f00817c3-73b3-4406-aef7-78a11ae801bd",
  "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
  "name": "Project Selection 2",
  "description": "partial selection of the project",
  "singleuse": false,
  "selection": {
    "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
    "modelid": "f012f6e0-fa56-4234-9760-a3ca711163da",
    "type": "Topology",
    "elements": null,
    "topology": {
      "camera": null,
      "topology": [
        {
          "id": "79de2e39-2dab-4698-81b3-d47d47baf5a7",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "81da639e-213d-4b1e-b390-0f4a6dd89dda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "1bf9d9c6-d1e8-476c-ada2-c1826e94cdda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "8b99a203-a2c6-4ac9-82ff-a04d1485239d",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "d93ffea5-1def-462a-9085-c626f7bedfc0",
          "visible": false,
          "opaque": false,
          "opacity": 0
        }
      ]
    },
    "layers": [
      {
        "revision": 0,
        "id": "0f106af0-a919-44c5-b211-15bd5ef620b6",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
      }
    ]
  },
  "filter": null,
  "structure": null
}

```

Get the export object details

URL / Resource / JSON Structure

Resource: exportobjects/<object_id>

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

Example: <https://api-stage.bimplus.net/v2/bimplus/exportobjects/8dbb2a20-a75b-40b5-8079-540d9d2a2b0a>

Optional query parameters

HTTP Method

GET

Description

Gets the details of the specified export object.

Request

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

Response

Status
Status: 200 OK

In general, the response json has following format :
<pre>{ "id": "8dbb2a20-a75b-40b5-8079-540d9d2a2b0a", "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01", "name": "Project Selection 1", "description": "complete project", "singleuse": false, "selection": { "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01", "modelid": "f012f6e0-fa56-4234-9760-a3ca711163da", "type": "Topology", "elements": null, "topology": { "camera": null, "topology": [{ "id": "79de2e39-2dab-4698-81b3-d47d47baf5a7", "visible": false, "opaque": false, "opacity": 0 }, { "id": "81da639e-213d-4b1e-b390-0f4a6dd89dda", "visible": false, "opaque": false, "opacity": 0 }, { "id": "1bf9d9c6-d1e8-476c-ada2-c1826e94cdda", "visible": false,</pre>

```

        "opaque": false,
        "opacity": 0
    },
    {
        "id": "8b99a203-a2c6-4ac9-82ff-a04d1485239d",
        "visible": false,
        "opaque": false,
        "opacity": 0
    },
    {
        "id": "d93ffea5-1def-462a-9085-c626f7bedfc0",
        "visible": false,
        "opaque": false,
        "opacity": 0
    }
],
"layers": [
    {
        "revision": 0,
        "id": "0f106af0-a919-44c5-b211-15bd5ef620b6",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
    },
    {
        "revision": 0,
        "id": "11555f6f-10ec-4180-88b3-699738c079c3",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
    },
    {
        "revision": 0,
        "id": "33826b01-c267-4b25-9f8e-79ac2953c443",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
    },
    {
        "revision": 0,
        "id": "30114b52-bc05-47c1-80b5-c7d5485d5831",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
    },
    {
        "revision": 0,
        "id": "09e623d4-1e12-4a77-b358-ea1d0b28e4a7",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
    }
],
"filter": null,
"structure": null

```

```
}  
}
```

Get all the export objects of the project

URL / Resource / JSON Structure

Resource: projects/<project_id>/exportobjects

URL: https://api-stage.bimplus.net/v2/<team_slug>/projects/<project_id>/exportobjects

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/ceac9b1e-31d9-4c5f-bd78-f909767b7b01/exportobjects>

HTTP Method

GET

Description

Get all the export objects of a specified project.

Request

Headers

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

Response

Status

Status: 200 OK

JSON

```
[  
  {  
    "id": "8dbb2a20-a75b-40b5-8079-540d9d2a2b0a",  
    "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",  
    "name": "Project Selection 1",  
    "description": "complete project",  
    "singleuse": false,  
    "selection": {  
      "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",  
      "modelid": "f012f6e0-fa56-4234-9760-a3ca711163da",  
      "type": "Topology",  
      "elements": null,  
      "topology": {  
        "camera": null,  
        "topology": [  
          {  
            "id": "79de2e39-2dab-4698-81b3-d47d47baf5a7",  
            "visible": false,  
            "opaque": false,  
            "opacity": 0  
          },  
          {  
            "id": "81da639e-213d-4b1e-b390-0f4a6dd89dda",  
            "visible": false,  
            "opaque": false,  
            "opacity": 0  
          }  
        ]  
      }  
    }  
  }  
]
```

```

    {
      "id": "1bf9d9c6-d1e8-476c-ada2-c1826e94cdda",
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "id": "8b99a203-a2c6-4ac9-82ff-a04d1485239d",
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "id": "d93ffea5-1def-462a-9085-c626f7bedfc0",
      "visible": false,
      "opaque": false,
      "opacity": 0
    }
  ],
  "layers": [
    {
      "revision": 0,
      "id": "0f106af0-a919-44c5-b211-15bd5ef620b6",
      "name": null,
      "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
      "divisionName": null,
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "revision": 0,
      "id": "11555f6f-10ec-4180-88b3-699738c079c3",
      "name": null,
      "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
      "divisionName": null,
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "revision": 0,
      "id": "33826b01-c267-4b25-9f8e-79ac2953c443",
      "name": null,
      "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
      "divisionName": null,
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "revision": 0,
      "id": "30114b52-bc05-47c1-80b5-c7d5485d5831",
      "name": null,
      "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
      "divisionName": null,
      "visible": false,
      "opaque": false,
      "opacity": 0
    },
    {
      "revision": 0,
      "id": "09e623d4-1e12-4a77-b358-ea1d0b28e4a7",
      "name": null,
      "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
      "divisionName": null,
      "visible": false,
      "opaque": false,
      "opacity": 0
    }
  ]
}

```

]

```

    },
    "filter": null,
    "structure": null
  }
},
{
  "id": "f00817c3-73b3-4406-aef7-78a11ae801bd",
  "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
  "name": "Project Selection 2",
  "description": "partial selection of the project",
  "singleuse": false,
  "selection": {
    "projectId": "ceac9b1e-31d9-4c5f-bd78-f909767b7b01",
    "modelid": "f012f6e0-fa56-4234-9760-a3ca711163da",
    "type": "Topology",
    "elements": null,
    "topology": {
      "camera": null,
      "topology": [
        {
          "id": "79de2e39-2dab-4698-81b3-d47d47baf5a7",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "81da639e-213d-4b1e-b390-0f4a6dd89dda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "1bf9d9c6-d1e8-476c-ada2-c1826e94cdda",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "8b99a203-a2c6-4ac9-82ff-a04d1485239d",
          "visible": false,
          "opaque": false,
          "opacity": 0
        },
        {
          "id": "d93ffea5-1def-462a-9085-c626f7bedfc0",
          "visible": false,
          "opaque": false,
          "opacity": 0
        }
      ]
    },
    "layers": [
      {
        "revision": 0,
        "id": "0f106af0-a919-44c5-b211-15bd5ef620b6",
        "name": null,
        "divisionId": "f012f6e0-fa56-4234-9760-a3ca711163da",
        "divisionName": null,
        "visible": false,
        "opaque": false,
        "opacity": 0
      }
    ]
  },
  "filter": null,
  "structure": null
}
]

```

Delete the object

URL / Resource / JSON Structure

Resource: exportobjects/<object_id>

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

Example: <https://api-stage.bimplus.net/v2/bimplus/exportobjects/8dbb2a20-a75b-40b5-8079-540d9d2a2b0a>

HTTP Method

DELETE

Description

Deletes a specified export object.

Request

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

Response

Status
Status: 200 OK