

# Bimplus API Reference



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Developers please use <https://api-stage.bimplus.net/v2> (stage version of Bimplus API) and <http://portal-stage.bimplus.net/> (stage version of Shop /Portal) for testing purposes. The production version of the portal is located under <https://portal.bimplus.net/> and the base url of the API is different for the production version.

## Project relevant services

- [Project Service](#)
- [Model Service](#)
- [Object Service](#)
- [Custom attribute Service](#)
- [Revision Service](#)
- [ElementType Service](#)
- [Attachment Service](#)
- [Topic Service \(issues\)](#)
- [Pin Service](#)
- [BCF Service](#)
- [Comment Service](#)
- [Import Service](#)
- [Slideshow Service](#)
- [Hyperlink Service](#)
- [Structure Service](#)
- [Clash Service](#)
- [User Settings Service](#)
- [Export to Excel Service](#)
- [Lock Service](#)
- [Object Navigator / Object Filter Service](#)
- [Export Object Service](#)

## Administration relevant services

- [Authorization Service \(obsolete\)](#)
- [User Management Service](#)
- [Team Management Service](#)
- [Membership Management Service](#)
- [Rights & Roles Service](#)
- [Invitation Service](#)

## Other services

- [Share Service](#)
- [Messaging Service](#)
- [BTW related Service](#)

## Project Service

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- [Create a new project](#)
- [Create copy of the source project](#)
- [Get the logged in user's project list](#)
- [Get the user's project list from a team](#)
- [Get the properties of the project](#)
- [Update the project](#)
- [Create an issue in the project](#)
- [Get the issue list from the project](#)
- [Delete all the issues from the project](#)
- [Create a new attachment in the project](#)
- [Get the attachment list from the project](#)
- [Delete all the attachments from the project](#)
- [Get the project topology](#)
- [Get the project layers](#)
- [Get material surfaces of the project](#)
- [Get the spot list from the project](#)
- [Create / Upload a thumbnail to the project](#)
- [Download the thumbnail](#)
- [Get the structure list from the project](#)
- [Delete all the structures from the project](#)
- [Get the topology of all structures belonging to the project](#)
- [Delete the project](#)

## Model Service

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- [Create a new model](#)
- [Get the logged in user's model list](#)
- [Get the list of existing models inside a project](#)
- [Get the model details](#)
- [Get the list of disciplines from the model](#)
- [Update the model](#)
- [Download the model](#)
- [Delete the model](#)

## Object Service

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- [Create a new object](#)
- [Get the object details](#)
- [Generate, save & share the view of an object](#)
- [Check whether an object has been updated \(See only the header info\)](#)
- [Get the full property list of the object without geometry](#)
- [Get the object tree with full property list without geometry \(object topology tree\)](#)
- [Get the optimized objects tree with selected property list whose geometry type is "ThreeJS"](#)
- [Get the object tree with full property list whose geometry type is "compressed geometry mesh \(meshblob\)"](#)
- [Get the object tree with selected property list whose geometry type is "ThreeJS" filtered by layer](#)
- [Get the object tree whose geometry type is "compressed geometry mesh \(meshblob\)" filtered by layer](#)
- [Get the different properties / structure\(normal, viewer properties, object in hierarchical tree structure\) of the object using different property combinations](#)
- [Get the complex properties of the object](#)
- [Update the object](#)
- [Create a new comment in the object](#)
- [Get all the comments of the object](#)
- [If there is not any attachment for selection/structure the return code is 404 Not Found. If Selection\Document Folder structure contains files with same names, the return code is 403 Forbidden.](#)
- [Get the attachment list from the object](#)
- [Delete all attachments from the object](#)
- [Create a new hyperlink for the object](#)
- [Get the hyperlink list from the object](#)
- [Delete the object](#)
- [Create a new custom table in the object](#)
- [Get all the custom tables of the object](#)
- [Delete all the custom tables from the object](#)

## Custom attribute Service

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- [Create a free attribute group](#)
- [Get all the free attribute groups](#)
- [Get the info about a particular free attribute group](#)
- [Update a particular free attribute group](#)
- [Delete a particular free attribute group](#)
- [Create a free attribute under a particular attribute group or as stand-alone](#)
- [Get all the free attributes](#)
- [Get all the free attributes under a attribute group](#)
- [Get the info about a particular free attribute](#)
- [Update a particular free attribute](#)
- [Delete a particular free attribute](#)
- [Create a unit](#)
- [Get all the units](#)
- [Get a particular unit](#)
- [Update a particular unit](#)
- [Delete a particular unit](#)

## Revision Service

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- [Create a new revision or update/overwrite a model](#)
- [Get the list of revisions of a model](#)
- [Get the info about a revision](#)
- [Update a revision](#)
- [List of APIs for retrieving info from a particular resource \(3D objects, attachments etc\)](#)
- [Calculate revisions comparison of the model](#)
- [Get calculated comparison of revisions of the model](#)

## CustomTable Service

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- [Get details of the custom table](#)
- [Update the custom table](#)
- [Delete the custom table](#)

## Cross Section Service

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- [Create a new cross section definition](#)
- [Get details of the cross section definition](#)
- [Get all cross sections section definitions](#)
- [Update the cross section definition](#)
- [Delete the cross section definition](#)
  
- [Create a new cross section for cross section definition](#)
- [Get details of cross section](#)
- [Get all cross sections from cross section definition](#)
- [Update cross section for cross section definition](#)
- [Delete the cross section](#)

## Connection Service

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- [Create a new connection](#)
- [Get the connection details](#)
- [Update the connection](#)
- [Delete the connection](#)

## ElementType Service

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- [Get all the element types](#)
- [Get the element type properties](#)
- [Get the list of existing layers](#)

## Attachment Service

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- [Get attachment information](#)
- [Download the attachment](#)
- [Update the attachment](#)
- [Delete the attachment](#)
- [Filter for getting project-only attachments & attachments that belong to a particular attachment-type](#)
- [Create a new version of an attachment](#)
- [Get all the versions of an attachment](#)
- [Download a particular version](#)
- [Delete a particular version](#)

## Issue Service

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- [Get details of the issue](#)
- [Get all the issue types](#)
- [Get details of the issue type](#)
- [Create a new pin for the issue](#)
- [Get all the pins of the issue](#)
- [Delete all the pins from the issue](#)
- [Create a new comment for the issue](#)
- [Get all the comments of the issue](#)
- [Create a new attachment for the issue](#)
- [Get the attachment list from the issue](#)
- [Delete all the attachments from the issue](#)
- [Working with hyperlinks belonging to an issue](#)
- [Update the issue](#)
- [Delete the issue](#)

## Pin Service

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- [Get details of the pin](#)
- [Update the pin](#)
- [Delete the pin](#)

## BCF Service

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- Import a BCF file into Bimplus topics
- Export all the topics inside a project into a BCF file
- Export a single or a list of Topics inside a project into a BCF file
- Use filters to determine what to export during the export of topics

## Import Service

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- Replace a model by importing SketchUp and IFC files

## Export IFC Service

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- Export model to IFC file
- Export selected elements to IFC file

## Export To Excel Service

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- Export all the Bimplus Topics inside a project into Excel
- Export the list of Bimplus Topics to Excel
- Export all the objects inside a project into Excel

## Hyperlink Service

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- Get details of the hyperlink
- Update the hyperlink
- Delete the hyperlink

## Structure Service

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- Create a new structure in a project
- Get the structure details
- Create a sub-node under the structure
- Get the structure topology
- Assign an object to the latest /last structure node
- Update the structure
- Delete the structure
- Download attachments of the structure

## Clash Service

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- Detect all the clashes in a project
- Detect clashes between disciplines & objects /topologies
- Calculate clashes in project using particular clash filter
- Get all clashes for given project and clash filter
- Create an clash filter in the project
- Get all clash filters for a project
- Get all clash filters for a team
- Get details of single clash filter
- Update the clash filter

- [Delete the clash filter](#)

## User Settings Service

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- [Create an user setting](#)
- [Get the list of pre-defined user settings](#)
- [Get info about a setting](#)
- [Update a setting](#)
- [Delete a setting](#)

## Slideshow Service

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- [Create a new slideshow](#)
- [Get the slideshow list from a project](#)
- [Delete all the slideshows from a project](#)
- [Get details of the slideshow](#)
- [Update the slideshow](#)
- [Delete the slideshow](#)
- [Create a new slide for a slideshow](#)
- [Get the slide list from a slideshow](#)
- [Get the details of a slide](#)
- [Update the details of a slide](#)
- [Delete a slide from a slideshow](#)
- [Create a thumbnail for a slideshow](#)
- [Download the thumbnail from a slideshow](#)
- [Create a thumbnail for a slide](#)
- [Download the thumbnail from a slide](#)
- [Working with attachments /comments/hyperlinks belonging to a slide](#)

## Comment Service

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- [Get details of the comment](#)
- [Update the comment](#)

## Lock Service

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- [Lock an object](#)
- [Lock object with different possibilities \(eg: Whether the children should be locked etc\)](#)
- [Check if an object is locked](#)
- [Remove the lock](#)

## Authorization Service

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- [Authorizes a user and returns a token for further API calls](#)
- [Get token information](#)
- [Request a cross token](#)
- [Cross authenticate by using cross token](#)
- [Revoke / Terminate the token](#)

## User Management Service

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- [Create a new user](#)
- [Get information about the user](#)
- [Update information about the user](#)

- [Delete the user](#)
- [Get information about the currently logged in user](#)

## Team Management Service

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- [Create a new team and its related database](#)
- [Get information about the team](#)
- [Update information about the team](#)
- [Delete the team](#)
- [Get the team list in which the current logged in user is a member of](#)
- [Get team account settings](#)

## Membership Management Service

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- [Add the user to the team](#)
- [Get the member list of the team](#)
- [Update information about the user in the team](#)
- [Delete the user from the team](#)

## Rights and Roles Service

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- [Create new project rights and roles template](#)
- [Get the list of existing project rights and roles templates](#)
- [Get the info about a particular project rights and roles template](#)
- [Update the project rights and roles template](#)
- [Delete the project rights and roles template](#)
- [Copy project rights and roles template from source to target project rights and roles template](#)
- [Get all the available roles](#)
- [Get all the available rights](#)
- [Create a new role](#)
- [Get details of the role](#)
- [Update the role](#)
- [Delete the role](#)
- [Make a team member part of a project by assigning a role to him](#)
- [Get the project members along with their respective roles](#)
- [Update the project role of a team member](#)
- [Remove the user from the project](#)

## Share Service

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- [Share a resource \( e.g. document \)](#)

## Messaging Service

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- [Create a new message for an user](#)
- [Get the message list of the current user](#)
- [Get information about a specified message](#)
- [Modify content of the dashboard message](#)
- [Delete the specified message](#)
- [Mark a browser message as "read"](#)
- [Mark a browser message as "unread"](#)

- Mark an email message as "unread"
- Filter the messages
- Get all messages sent by given user to all single users
- Get all messages sent by given user to all groups
- Create a new messaging group
- Get all the messaging groups
- Get the messaging group details
- Delete the messaging group

## Object Navigator(filter) Service

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- Get the predefined filters that belongs to a projects & discipline
- Get the building objects /elements using the filter
- Create a new filter

## Export Object Service

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- Create a new export object
- Get the export object details
- Get all the export objects of the project
- Delete the export object

## Selection Object Service

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- Create a new selection object
- Get the selection object details
- Get all the selection objects of the project
- Delete the selection object

## Catalog Service

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- Create a new norm
- Get the norm list
- Get the norm details
- Delete the specified norm
- Create a new country
- Get the country list
- Get the country details
- Delete the specified country
- Get a list of catalog types
- Get the catalog type details
- Create a new catalog item
- Get the catalog item details
- Create a new catalog
- Get the catalog list
- Get the catalog details
- Update the specified catalog
- Get the catalog item list from the specified catalog
- Delete the specified catalog

## Bimplus Windows Explorer related Services

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- Create a new objectview
- Get the list of target objects(objectviews) which will be populated in the "Object Navigator List"
- Get information about an "Object Navigator" item (objectview)
- Get the properties(column names) of the objectview

- Get the required objectview's details from input objectview list reference
- Delete the objectview
- Create a hierarchy
- Create a list of hierarchies
- Create a complete new structure hierarchy
- Get all the user hierarchies using the user & module information
- Get the details of a hierarchy
- Get details about a list of hierarchies
- Delete the hierarchy
- Delete the list of hierarchies
- Delete all the hierarchies filtered by additional info