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

- 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

- 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 discipines from the model
- Update the model
- Download the model
- Delete the model

Object Service

- 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

- 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

- 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

- Get details of the custom table
- Update the custom table
- Delete the custom table

Cross Section Service

- 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

- Create a new connection
- Get the connection details
- Update the connection
- Delete the connection

ElementType Service

- Get all the element types
- Get the element type properties
- Get the list of existing layers

Attachment Service

- 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

- 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

- Get details of the pin
- Update the pin
- Delete the pin

BCF Service

- 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

- Replace a model by importing SketchUp and IFC files

Export IFC Service

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

Export To Excel Service

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

Hyperlink Service

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

Structure Service

- 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

- 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

- 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

- 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

- Get details of the comment
- Update the comment

Lock Service

- 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

- 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

- 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

- 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

- 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

- 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

- Share a resource (e.g. document)

Messaging Service

- 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

- 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

- 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

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

Catalog Service

- 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

- 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