**BCF 2.0 RESTful API**

All API access is over HTTPS. Data is sent as query parameters and received as JSON.

* Every resource has a corresponding Json Schema.
* Json Hyper Schema for link definition
* Authentication OAuth2

**Paginating**

* [Link header introduced by RFC 5988](http://tools.ietf.org/html/rfc5988#page-6).
* custom HTTP header *X-Total-Count*

**Filtering, Searching, Sorting**

…

**Caching**

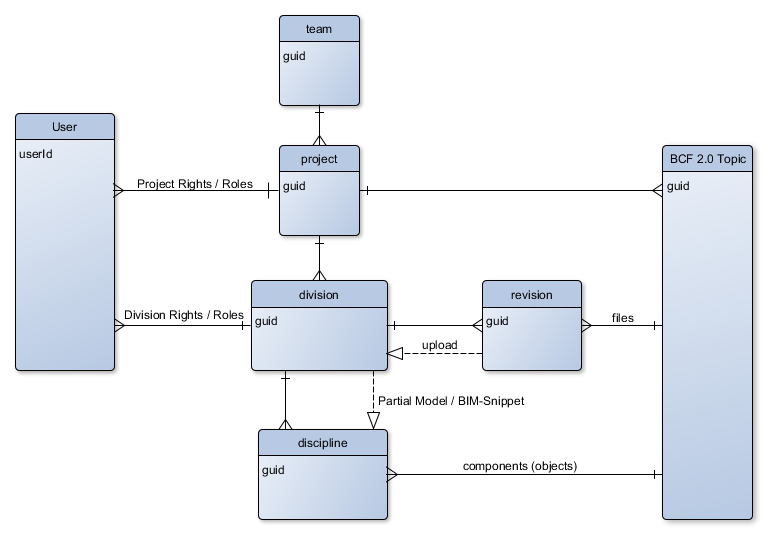
ETAG

**JsonP**

………….

**Structure**

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| ***Version*** | |
| /V0.99 | GET |

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| ***(Version) Schemas*** | |
| /V0.99/schemas | GET Link Schema |
| /V0.99/schemas/{rel} | GET |

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| ***Teams*** | |
| /V0.99/teams | GET, POST |
| /V0.99/teams/{guid} | GET, PUT, DELETE |

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| ***Projects*** | |
| /V0.99/ teams/{ guid }/projects | GET, POST |
| /V0.99/ teams/{ guid }/projects/{guid}  /V0.99/projects/{guid} | GET, PUT, DELETE |

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| ***(Projects) Thumbnail*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/thumbnail  /V0.99/projects/{guid}/thumbnail | GET, POST, DELETE |

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| ***(Projects) Schema*** | |
| /V0.99/ teams/{ guid}/projects /{guid}/schema  /V0.99/ projects /{guid}/schema | GET,POST, PUT, DELETE (extensions.json) |

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| ***Divisions*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/divisions | GET, POST |
| /V0.99/ teams/{ guid }/projects/{guid}/divisions/{guid}  /V0.99/ divisiones/{guid} | GET, PUT, DELETE |

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| ***Disciplines*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/ divisions/{guid}/  disciplines | GET, POST |
| /V0.99/ teams/{ guid }/projects/{guid}/ divisions/{guid}/  disciplines/{guid}  /V0.99/ disciplines/{guid} | GET, PUT, DELETE |

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| ***Revisions*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/divisions/{guid}/revisions | GET, POST |
| /V0.99/ teams/{ guid }/projects/{guid}/divisions/{guid}/revisions/{guid}  /V0.99/revisions/{guid} | GET, DELETE |

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| ***Topics*** | |
| /V0.99/teams/{ guid }/projects/{guid}/topics | GET, POST |
| /V0.99/teams/{ guid }/projects/{guid}/topics/{guid}  /V0.99/topics/ {guid } | GET, PUT, DELETE |

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| ***(Topics) Revisions*** | |
| /V0.99/teams/{ guid }/projects/{guid}/topics/{guid}/revisions  /V0.99/topics/ {guid }/revisions | GET, POST |

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| ***(Topics) Divisions*** | |
| /V0.99/teams/{ guid }/projects/{guid}/topics/{guid}/devisions  /V0.99/topics/ {guid }/devisions | GET, POST |

??? is Disciplines the same as Components

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| ***(Topics) Disciplines*** | |
| /V0.99/teams/{ guid }/projects/{guid}/topics/{guid}/disciplines  /V0.99/topics/ {guid }/disciplines | GET, POST |

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| ***(Topics) Document References*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/topics/{guid}/  document\_references  /V0.99/topics/ {guid }/ document\_references | GET, POST |
| /V0.99/teams/{ guid }/projects/{guid}/topics/{guid}/  document\_references/{guid}  /V0.99/ document\_references/{guid} | GET, DELETE |

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| ***(Topic) Related Topics*** | |
| /V0.99/ teams/{ guid }/projects/{guid}/topics/{guid}/related\_topics  /V0.99/topics/{guid}/related\_topics | GET, POST |
| /V0.99/ teams/{ guid }/projects/{guid}/topics/{guid}/related\_topics/{guid}  /V0.99/ topics/{guid}/related\_topics/{guid} | GET, DELETE |

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| ***(Topics) Comments*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/comments  /V0.99/topics/{guid}/comments | GET, POST |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/comments/{guid}  /V0.99/comments/{guid} | GET, PUT, DELETE |

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| ***(Topics)( Comments) Viewpoints*** | |
| /V0.99/ teams/{id}/projects/{id}/topics/{guid}/comments/{guid}/  Viewpoints  /V0.99/ comments/{guid}/viewpoints | GET |

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| ***(Topics) Viewpoints*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/viewpoints  /V0.99/topics/{guid}/viewpoints | GET, POST |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}  /V0.99/viewpoints /{guid} | GET, PUT, DELETE |

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| ***(Topics) (Viewpoints) Bitmap*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/  bitmap  /V0.99/viewpoints /{guid}/bitmap | GET, POST, DELETE |

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| ***(Topics) (Viewpoints) Snapshot*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/  snapshot  /V0.99/viewpoints /{guid}/snapshot | GET, POST, DELETE |

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| ***(Topics) (Viewpoints) Comments*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/comments  /V0.99/viewpoints /{guid}/comments | GET, POST |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/comments/{guid}  /V0.99/ viewpoints /{guid}/comments/{guid} | DELETE |

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| ***(Topics) (Viewpoints) Components*** | |
| /V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/components  /V0.99/viewpoints /{guid}/components | GET,POST |
| V0.99/ teams/{guid}/projects/{guid}/topics/{guid}/ viewpoints /{guid}/components/{guid}  V0.99/components/{guid} | GET, DELETE |

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|  | **Account**  **Owner** | **Project**  **Admin** | **Project**  **Editor** | **Project**  **Viewer** | **Model**  **Admin** | **Model**  **Editor** | **Model**  **Viewer** |
| **Create Project** | x | x |  |  |  |  |  |
| **Admin Project**  **(eg. invite)** | x | x |  |  |  |  |  |
| **Edit Project** | x | x | x |  |  |  |  |
| **Delete Project** | x | x |  |  |  |  |  |
| **View Project** | x | x | x | x | x | x | x |
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| **Create Discipline** | x | x | x |  |  |  |  |
| **Edit Discipline** | x | x | x |  |  |  |  |
| **Delete Discipline** | x | x | x |  |  |  |  |
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| **View all Models** | x | x | x | x |  |  |  |
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| ***(Teams) Roles*** | |
| /V0.99/teams/{guid}/roles  [      {          "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",          "name": "Project\_Editor",          "customRole": false,          "resources": [              {                  "resource": "UserRightProject",                  "rights": [                      "Project\_Edit",                      "Project\_View",                      "Model\_ViewAll"                  ]}]},      {          "id": "2baca0e4-2eee-4f7c-bc56-22ed54a1859c",          "name": "Account\_Owner",          "customRole": false,          "resources": [              {                  "resource": "UserRightGlobal",                  "rights": [                      "AllProjects",                      "AllModels",                      "Project\_Create"                  ]}]      },      {          "id": "a298b28d-9711-4a76-9a7d-910cbf144ee5",          "name": "Project\_Admin",          "customRole": false,          "resources": [              {                  "resource": "UserRightProject",                  "rights": [                      "Project\_Admin",                      "Project\_Edit",                      "Project\_Delete",                      "Project\_View",                      "Model\_ViewAll",                      "Model\_Create"                  ]              }          ]      },      {          "id": "a618d075-7e4a-4bde-9d58-d2979696fa96",          "name": "Project\_Viewer",          "customRole": false,          "resources": [              {                  "resource": "UserRightProject",                  "rights": [                      "Project\_View",                      "Model\_ViewAll"                  ]}]}] | GET  ***Why is this team-related ?*** |
| ***(Projects) Members*** | |
| /V0.99/teams/{guid}/projects/{guid}/members  /V0.99/projects/{guid}/members  POST: Assign a project role to an existing member of a team. Only the user with "Account Owner" or "Project Owner" role can use this API call.  {    "member": {      "user\_id": "bf5b2382-1d14-b8df-8454-947f83b45c25"    },    role: {      id: "Project\_Editor"}    GET: Get the member list of a project along with their respective project roles.  [{  "member": {  "user\_id": "7aa846f2-6014-f68d-8dd4-4c7941d7cbcc",  "email": "customer1@bimplus.net"  },  "role": {  "id": "Project\_Editor" }},  {  "member": {  "user\_id": "bf5b2382-1d14-b8df-8454-947f83b45c25",  "email": "customer2@bimplus.net"  },  "role": {  "id": "Project\_Viewer“  }}]  PUT: Update the project role of a team member. Only the user with "Account Owner" or "Project Owner" role can use this API call.  {"member": {  "user\_id": "bf5b2382-1d14-b8df-8454-947f83b45c25",  "email": "customer@bimplus.net"  },  "role": {  "id": " Project\_Viewer"…… | GET,POST, PUT |

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| ***Users*** | |
| /V0.99/users  POST: Create a new user | POST |
| /V0.99/users/{user\_id}  GET: Get information about the user  PUT: Modify the user  DELETE: Delete the user; Remove from all teams and projects | GET,PUT,DELETE |

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| ***(Users) self*** | |
| /V0.99/users/self  GET all informations about the logged on user | GET |