

4.21 Rights and Roles Service

Rights and Roles Service

Rights and Roles

- [Get all the available roles](#)
- [Get all the available rights](#)
- [Get details of the role](#)
- [Get all project's roles assigned by right and roles template](#)
- [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](#)

Rights and Roles Service

Rights and Roles

Get all the available roles

URL / Resource / JSON Structure

Resource: <team_slug>/roles

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

Example: <https://api-stage.bimplus.net/v2/best-company/roles>

Optional query parameters

Name	Type	Default value	Description
rights	boolean	true	When query parameter "rights=false" is defined, the API call will returns all roles. i.e. not only roles which contains resources and right definitions. When query parameter is missing, the API call returns only roles which includes resources and rights definitions.
customrole	boolean		When query parameter customrole is defined e.g. "customrole=true", the API call will returns only roles which have value of property "customRole" equal to query parameter. When query parameter is missing, the API call returns all roles (i.e. their customRole property can be true or false)

HTTP Method

GET

Description

Get all the available roles. Right now, we support only project based roles and custom roles.

Here is the definition of Bimplus Rights and Roles.

	Account Owner	Project Admin	Project Editor	Project Viewer
Create project	x			
Admin project	x	x		
Delete project	x	x		
Edit project	x	x	x	
View project	x	x	x	x
Create model	x	x		
View all models	x	x	x	x

Model rights and roles are not supported yet, the project rights are used instead - meaning e.g. update model requires ProjectEdit rights

The custom roles contains also definition for which resource and rights are valid.

Request

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

Response

Status
Status: 200 Ok

JSON
<pre>[{ "id": "a298b28d-9711-4a76-9a7d-910cbf144ee5", "name": "Project_Admin", "type": "Project", "rank": 3, "customRole": true, "resources": [{ "id": "cc49128e-9416-4bfc-a695-b17365dc7a5e", "resource": "Project", "rights": ["ProjectAdmin"], "rightsAccess": [{ "id": "815ce797-da07-4372-8a59-609f7106ab09", "name": "Project", "access": "Admin" }] }] }, { "id": "a618d075-7e4a-4bde-9d58-d2979696fa96", "name": "Project_Viewer", "type": "Project", "rank": 1, "customRole": true, "resources": [{ "id": "cc49128e-9416-4bfc-a695-b17365dc7a5e", "resource": "Project", "rights": ["ProjectView"], "rightsAccess": [{ "id": "815ce797-da07-4372-8a59-609f7106ab09", "name": "Project", "access": "View" }] }] }] ...]</pre>

Get all the available rights

URL / Resource / JSON Structure

Resource: <team_slug>/rights

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

Example: <https://api-stage.bimplus.net/v2/best-company/rights>

JSON Structure:

Name	Mandatory / Optional	Type	Description
id	mandatory	string (guid)	Id of the right resource type
resource	mandatory	string	The name of the right resource type
rights	mandatory	object	Dictionary of the pairs of right id together with its name
access	mandatory	JSON Array	Array of the strings represented access right. Can be combination of predefined rights "View", "Edit", "Admin"

Optional query parameters:

Following query parameters allows reduce set of returned right resource types. By default will be returned all defined right resource types.

Name	Type	Default value	Description
project	boolean	true	When query parameter "project=false" is defined, the API call will returns all right resource types except project right resource type.
global	boolean	true	When query parameter "global=false" is defined, the API call will returns all right resource types except global right resource type.
document	boolean	true	When query parameter "document=false" is defined, the API call will returns all right resource types except document right resource type.
globalfreeattributes	boolean	true	When query parameter "globalfreeattributes=false" is defined, the API call will returns all right resource types except globalfreeattributes right resource type.

HTTP Method

GET

Description

Get all the available rights returns array of right resource types with defined rights.

Request

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

Response

Status
Status: 200 Ok

JSON

```
[ {
  "id": "173e7a88-16d9-4d88-92bf-270fff458435",
  "resource": "Document",
  "rights": {
    "73ca755b-eb41-4abf-8d72-6360f638a34c": "documentshare",
    "f53dac0d-8ef8-48bd-9fa5-b49831bcf671": "documentdelete",
    "6513c54f-0531-47e2-853d-56a25a226765": "documentdownloaddenied",
    "820eb26b-7469-48bd-b10f-0c69e631c910": "documentviewdenied",
    "d7727bed-38b8-4a77-b61d-397fb01f1ad8": "documentupdate"
  },
  "access": ["Edit"]
},
{
  "id": "cc49128e-9416-4bfc-a695-b17365dc7a5e",
  "resource": "Project",
  "rights": {
    "815ce797-da07-4372-8a59-609f7106ab09": "project"
  },
  "access": ["View",
    "Edit",
    "Admin"]
},
{
  "id": "9dae8bb5-77c1-47a6-a916-d4948583b0b9",
  "resource": "Global",
  "rights": {
    "c64151c5-ecde-4e2c-ba53-d0390f480461": "projectdelete",
    "6bbc401b-7cd5-4684-a11d-e2448befb3c1": "projectcreate",
    "99bad6fc-0539-4848-84af-62b6df31eaa3": "allattributes",
    "3b3f10c1-93a6-4d15-a727-e38e2fb9b0b2": "alldocuments",
    "cc3416d3-c570-4dc6-aa84-72216d3f58da": "allmodels",
    "9351251b-9631-499e-8e23-68ffe70ef3b7": "allprojects"
  },
  "access": ["Edit"]
},
{
  "id": "500766a6-2525-45db-b9cd-b2a3d8092ba9",
  "resource": "GlobalFreeAttributes",
  "rights": {
    "061a3842-9b4d-4d19-8651-2f9373c42842": "freeattribute",
    "63b9bfad-db9f-4bbe-a902-7716c440a200": "attributetemplate",
    "04f5c272-3dec-4bce-85ae-6abb2e936ef8": "projectattributetemplate",
    "2a0e7bed-9fbf-46bc-987a-7a6c5c638f98": "freeattributegroup",
    "b886cab2-fcce-4a77-ab2d-09f704e363b7": "teammembership"
  },
  "access": ["View",
    "Edit"]
}
]
```

Get details of the role

URL / Resource / JSON Structure

Resource: <team_slug>/roles/<role_id>

URL: https://api-stage.bimplus.net/v2/<team_slug>/roles/<role_id>

Example: <https://api-stage.bimplus.net/v2/bimplus/roles/94a60a79-7c81-454b-8158-ffdb9a2bf4d6>

HTTP Method

GET

Description

Get details of a specified role.

Request

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

Response

Status
Status: 200 OK

JSON
<pre>{ "id" : "94a60a79-7c81-454b-8158-ffdb9a2bf4d6", "name": "Test", "customRole": true, "resources": [{ "id": "4e587ea1-5098-45cd-9655-15f90c16dc58", "resource": "Layer", "rights": ["Room"] }, "rightsAccess": [{ "id": "52bbc329-dab3-a81c-b548-09c715786a81", "name": "RoomModel", "access": "Edit" }] }] }</pre>

Get all project's roles assigned by right and roles template

URL / Resource / JSON Structure

Resource: projects/<project_id>/roles

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

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/b8615afc-99cc-4bcd-b0ca-ff0593ce15c6/roles>

JSON Structure: The structure of object is the same as in [get all available roles](#).
The rightsandrolestemplate query parameter should not be used, due to it is implicitly set to actual project rights and roles template id.

HTTP Method

GET

Description

Each project has by default assigned free attribute "RightsAndRoles template" which defines rights and roles template.

The API call will returns all project's roles assigned by rights and roles template.

Request

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

Response

Status
Status: 201 Created

JSON

```
[
  {
    "id": "94a60a79-7c81-454b-8158-ffdb9a2bf4d6",
    "name": "TEST1",
    "customRole": true,
    "resources": [
      {
        "id": "4e587ea1-5098-45cd-9655-15f90c16dc58",
        "resource": "Layer",
        "rights": [
          "RoomModel"
        ],
        "rightsAccess": [
          {
            "id": "52bbc329-dab3-a81c-b548-09c715786a81",
            "name": "RoomModel",
            "access": "Edit"
          }
        ]
      }
    ]
  },
  {
    "id": "391fb0fc-43ec-464c-bd18-b5223b32bd14",
    "name": "TEST2",
    "customRole": true,
    "resources": [
      {
        "id": "9dae8bb5-77c1-47a6-a916-d4948583b0b9",
        "resource": "Global",
        "rights": [
          "AllModels",
          "ProjectCreate",
          "AllAttributes"
        ],
        "rightsAccess": [
          {
            "id": "cc3416d3-c570-4dc6-aa84-72216d3f58da",
            "name": "AllModels",
            "access": "Edit"
          },
          {
            "id": "6bbc401b-7cd5-4684-a11d-e2448befb3c1",
            "name": "ProjectCreate",
            "access": "Edit"
          },
          {
            "id": "99bad6fc-0539-4848-84af-62b6df31eaa3",
            "name": "AllAttributes",
            "access": "Edit"
          }
        ]
      }
    ]
  }
]
...
]
```

Make a team member part of a project by assigning a role to him

URL / Resource / JSON Structure

Resource: projects/<project_id>/members

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

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/b8615afc-99cc-4bcd-b0ca-ff0593ce15c6/members>

JSON Structure:

Name	Mandatory / Optional	Type	Description
member	mandatory	object	The member who will be assigned a role to the project. The object has a mandatory property name "id" which represents Id of the user, its type is string(guid)
role	mandatory	object	The project role which will be assigned to the team member. The object has a mandatory property name "id" which represents Id of the role, its type is string(guid)
roles	mandatory	JSON Array	Array of role objects, each object must have defined role id.
group	optional	Object	Object which contains pairs of group's id and group's role where the new user belongs.

HTTP Method

POST

Description

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.

Request

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

JSON
<pre>{ "member": { "id": "bf5b2382-1d14-b8df-8454-947f83b45c25", }, "role": { "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6", } "roles":[{ "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6", }, { "id": "391fb0fc-43ec-464c-bd18-b5223b32bd14", }, { "id": "33078aed-0473-4714-beb9-ab989959afdd", }], "group": { "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc", "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb" } }</pre>

Response

Status
Status: 201 Created

JSON

```
{
  "member": {
    "id": "bf5b2382-1d14-b8df-8454-947f83b45c25",
    "email": "testuser@bimplus.net",
    "firstname": "Test",
    "lastname": "User",
    ...
  },
  "role": {
    "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
    "name": "Project_Editor"
  }
}
"roles":[
  {
    "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
    "name": "Project_Editor"
  },
  {
    "id": "391fb0fc-43ec-464c-bd18-b5223b32bd14",
    "name": "Architekt"
  },
  {
    "id": "33078aed-0473-4714-beb9-ab989959afdd",
    "name": "BuildingEditor"
  }
],
"group": {
  "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc",
  "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb"
}
}
```

Get the project members along with their respective roles

URL / Resource / JSON Structure

Resource: projects/<project_id>/members

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

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/b8615afc-99cc-4bcd-b0ca-ff0593ce15c6/members>

HTTP Method

GET

Description

Get the member list of a project along with their respective project roles.

Request

Headers

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

Response

Status

Status: 200 OK

JSON

```
[
  {
    "member": {
      "id": "bf5b2382-1d14-b8df-8454-947f83b45c25",
      "email": "testuser@bimplus.net",
      "firstname" : "Test",
      "lastname" : "User",
      ...
    },
    "role": {
      "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
      "name": "Project_Editor"
    }
  },
  {
    "roles": [
      {
        "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
        "name": "Project_Editor"
      },
      {
        "id": "391fb0fc-43ec-464c-bd18-b5223b32bd14",
        "name": "Architekt"
      },
      {
        "id": "33078aed-0473-4714-beb9-ab989959afdd",
        "name": "BuildingEditor"
      }
    ],
    "group": {
      "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc",
      "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb"
    }
  },
  {
    "member": {
      "id": "bf5b2382-1d14-b8df-8454-947f83b45c25",
      "email": "customer2@bimplus.net",
      "firstname" : "Some",
      "lastname" : "Customer",
      ...
    },
    "role": {
      "id": "e11d32e2-30b7-4f81-8a74-2165ecc00cf6",
      "name": "Project_Viewer"
    }
  },
  {
    "roles": [
      {
        "id": "e11d32e2-30b7-4f81-8a74-2165ecc00cf6",
        "name": "Project_Viewer"
      }
    ],
    "group": {
      "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc",
      "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb"
    }
  }
]
```

Update the project role of a team member

URL / Resource / JSON Structure

Resource: projects/<project_id>/members

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

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/b8615afc-99cc-4bcd-b0ca-ff0593ce15c6/members>

JSON Structure:

Name	Mandatory / Optional	Type	Description
member	mandatory	object	The member who will be assigned a role to the project. Object must have set "id" as string(guid) - Id of the user.
role	mandatory	object	The project role which will be assigned to the team member. Object must have set "id" as string(guid) - Id of the role
roles	mandatory	JSON Array	Array of role objects, each object must have defined role id.
group	optional	Object	Object which contains pairs of group's id and group's role where the new user belongs.

HTTP Method

PUT

Description

Update the project role of a team member. Only the user with "Account Owner" or "Project Owner" role can use this API call.

Request

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

JSON
<pre>{ "member": { "id": "efeb4da2-1c7c-4aa8-ab13-28638f9669a8" }, "role": { "id": "a298b28d-9711-4a76-9a7d-910cbf144ee5" }, "roles": [{ "id": "5d4eaafa-aed0-4c53-803d-2fb7fa6a208b" }, { "id": "72fd3336-7df5-410d-a883-98318e6337b6" }], "group": { "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc", "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb" } }</pre>

Response

Status
Status: 200 OK

JSON

```
{
  "member": {
    "id": "bf5b2382-1d14-b8df-8454-947f83b45c25",
    "email": "testuser@bimplus.net",
    "firstname": "Test",
    "lastname": "User",
    ...
  },
  "role": {
    "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
    "name": "Project_Editor"
  }
}
"roles":[
  {
    "id": "f11d32e2-30b7-4f81-8a74-2165ecc00cf6",
    "name": "Project_Editor"
  },
  {
    "id": "391fb0fc-43ec-464c-bd18-b5223b32bd14",
    "name": "Architekt"
  },
  {
    "id": "33078aed-0473-4714-beb9-ab989959afdd",
    "name": "BuildingEditor"
  }
],
"group": {
  "id": "9a63fe8e-4b80-4c21-af1b-4344f95df6bc",
  "role": "da3c04d7-b593-4017-b6c3-4c9eed7699bb"
}
}
```

Remove the user from the project

URL / Resource / JSON Structure

Resource: projects/<project_id>/members

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

Example: <https://api-stage.bimplus.net/v2/bimplus/projects/b8615afc-99cc-4bcd-b0ca-ff0593ce15c6/members>

HTTP Method

DELETE

Description

Remove the user from a project

Request

Headers

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

Response

Status
Status: 200 OK