

## 4.21 Rights and Roles Service

### Rights and Roles Service

#### Rights and Roles

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### 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](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.<br>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.<br>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<br>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](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<br>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>](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<br>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](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<br>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](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.<br>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.<br>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<br>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](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](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.<br>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.<br>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<br>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](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 |